



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0479

HCAI Special Seismic Certification Preapproval (OSP)

Type:  New  Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Du Pengfei

Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 53188-1696

Telephone: +86 1891-1901406

Email: Pengfei.du@gehealthcare.com

Product Information

Product Name: Fluoroscopy and Radiography Systems

Product Type: NA

Product Model Number: Optima XR646, Optima XR646 HD, Discovery XR656 Plus, Discovery XR656 HD (Definium 656 HD)

General Description: System components of multiple-component medical diagnostic radiography imaging systems.

Mounting Description: See Certified Product Tables

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI California License Number: S6515

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

Telephone: (669) 437-0200 Email: Lhandzhiyski@StructInt.com

**Certification Method**

GR-63-Core  ICC-ES AC156  IEEE 344  IEEE 693  NEBS 3

Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)

Contact Person: Lanfang Cui

Mailing Address: No.299, Tengfei Road, Industrial Park, Lianchi District, Baoding, Hebei, China

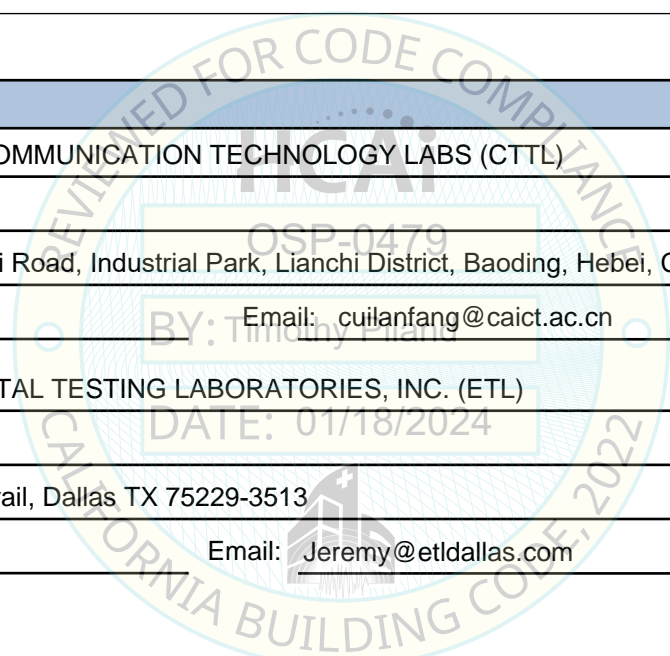
Telephone: +86 0312-6798950 Email: cuilanfang@caict.ac.cn

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





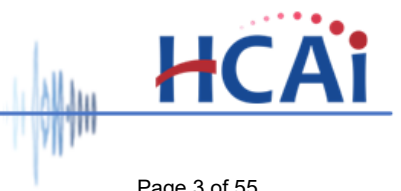
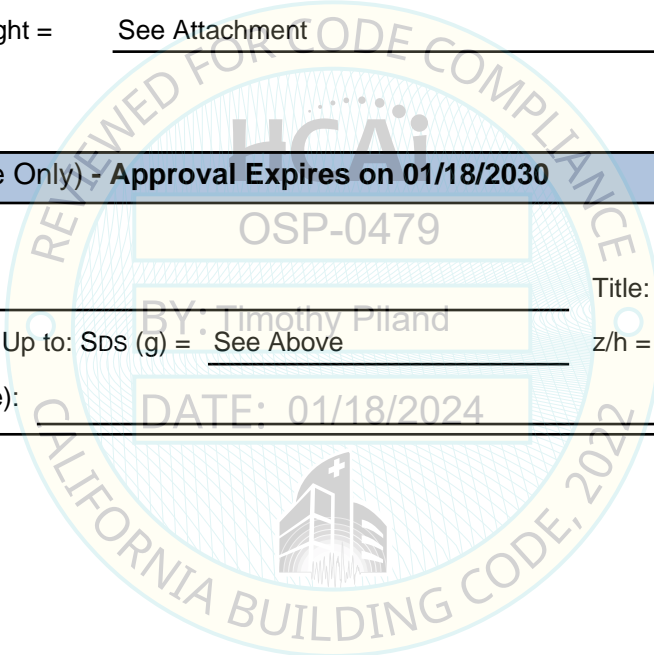
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**Seismic Parameters**

|  |                      |
|--|----------------------|
| Design Basis of Equipment or Components ( $F_p/W_p$ ) =          | See Attached Table 7 |
| SDS (Design spectral response acceleration at short period, g) = | See Attached Table 7 |
| $a_p$ (Amplification factor) =                                   | See Attached Table 7 |
| $R_p$ (Response modification factor) =                           | See Attached Table 7 |
| $\Omega_0$ (System overstrength factor) =                        | 2.0                  |
| $I_p$ (Importance factor) =                                      | 1.5                  |
| $z/h$ (Height ratio factor) =                                    | 1 and 0              |
| Natural frequencies (Hz) =                                       | See Attachment       |
| Overall dimensions and weight =                                  | See Attachment       |

**HCAI Approval (For Office Use Only) - Approval Expires on 01/18/2030**

|  |                  |                                   |
|--|------------------|-----------------------------------|
| Date:  | 1/18/2024        | OSP-0479                          |
| Name:  | Timothy Piland   | Title: Senior Structural Engineer |
| Special Seismic Certification Valid Up to: SDS (g) = | See Above        | $z/h$ = See Above                 |
| Condition of Approval (if applicable):               | DATE: 01/18/2024 |                                   |



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>TABLE 1</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR646 Systems: 2 or 3 Meter Bridge  
XR656 Systems: 2, 3, or 4 Meter Bridge with 5135678-3 (longitudinal rails) or 5135678-4 (no longitudinal rails) tube supports.

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly (Components)                                 | Subcomponents         | Model Number  | Dimension (in) |       |                     | Weight (lbs.) | Notes | UUT |
|---|-----------------------|---------------|----------------|-------|---------------------|---------------|-------|-----|
|   |                       |               | Depth          | Width | Height <sup>1</sup> |               |       |     |
| Overhead Tube Support (XR646 system - 2 meter bridge) | 2 Meter Bridge        | 5693326       | 25.8           | 83.5  | 35.5 - 106.3        | 820           |       | 7   |
|   | Tube Support          | 5139720       |                |       |                     |               |       |     |
|   | X-Ray Tube            | 46-155400G284 |                |       |                     |               |       |     |
|   | Collimator (AL01C II) | Type: 5234954 |                |       |                     |               |       |     |
| Overhead Tube Support (XR646 system - 3 meter bridge) | 3 Meter Bridge        | 5693325       | 25.8           | 120.5 | 35.5 - 106.3        | 885           |       | 8   |
|   | Tube Support          | 5139720       |                |       |                     |               |       |     |
|   | X-Ray Tube            | 46-155400G284 |                |       |                     |               |       |     |
|   | Collimator (AL01C II) | Type: 5234954 |                |       |                     |               |       |     |
|   | Longitudinal Rails    | 5340818       |                |       |                     |               |       |     |
|   |                       |               |                |       |                     |               |       |     |

**Notes:**  
1. Range of outer height measured from top of longitudinal rail to focal point (x-ray tube center)

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>TABLE 1</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR646 Systems: 2 or 3 Meter Bridge  
XR656 Systems: 2, 3, or 4 Meter Bridge with 5135678-3 (longitudinal rails) or 5135678-4 (no longitudinal rails) tube supports.

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly (Components)                                 | Subcomponents         | Model Number          | Dimension (in) |       |                     | Weight (lbs.) | Notes                                | UUT     |
|---|-----------------------|-----------------------|----------------|-------|---------------------|---------------|--------------------------------------|---------|
|   |                       |                       | Depth          | Width | Height <sup>1</sup> |               |                                      |         |
| Overhead Tube Support (XR656 system - 2 meter bridge) | 2 Meter Bridge        | 5143542               | 25.8           | 83.9  | 32.0 - 102.6        | 880           | UUT: 5135678-3 w/ Longitudinal Rails | 9       |
|   | Tube Support          | 5135678-3 & 5135678-4 |                |       |                     |               |                                      |         |
|   | X-Ray Tube            | 46-155400G284         |                |       |                     |               |                                      |         |
|   | Collimator (AL01C II) | Type: 5234954         |                |       |                     |               |                                      |         |
|   | Longitudinal Rails    | 5340818               |                |       |                     |               |                                      |         |
| Overhead Tube Support (XR656 system - 3 meter bridge) | 3 Meter Bridge        | 5127305               | 26.3           | 157.0 | 32.0 - 102.6        | 1,170         |                                      | Interp. |
|   | Tube Support          | 5135678-3 & 5135678-4 |                |       |                     |               |                                      |         |
|   | X-Ray Tube            | 46-155400G284         |                |       |                     |               |                                      |         |
|   | Collimator (AL01C II) | Type: 5234954         |                |       |                     |               |                                      |         |

**Notes:**  
1. Range of outer height measured from top of longitudinal rail to focal point (x-ray tube center)

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>TABLE 1</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR646 Systems: 2 or 3 Meter Bridge  
XR656 Systems: 2, 3, or 4 Meter Bridge with 5135678-3 (longitudinal rails) or 5135678-4 (no longitudinal rails) tube supports.

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$   $I_p = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly (Components)                                 | Subcomponents         | Model Number          | Dimension (in) |       |                     | Weight (lbs.) | Notes                                | UUT |
|---|-----------------------|-----------------------|----------------|-------|---------------------|---------------|--------------------------------------|-----|
|   |                       |                       | Depth          | Width | Height <sup>1</sup> |               |                                      |     |
| Overhead Tube Support (XR656 system - 4 meter bridge) | 4 Meter Bridge        | 5189123               | 26.3           | 157.0 | 32.0 - 102.6        | 1,170         | UUT: 5135678-3 w/ Longitudinal Rails | 10  |
|   | Tube Support          | 5135678-3 & 5135678-4 |                |       |                     |               |                                      |     |
|   | X-Ray Tube            | 46-155400G284         |                |       |                     |               |                                      |     |
|   | Collimator (AL01C II) | Type: 5234954         |                |       |                     |               |                                      |     |
|   | Longitudinal Rails    | 5340818               |                |       |                     |               |                                      |     |
|   |                       |                       |                |       |                     |               |                                      |     |
|   |                       |                       |                |       |                     |               |                                      |     |
|   |                       |                       |                |       |                     |               |                                      |     |
|   |                       |                       |                |       |                     |               |                                      |     |
|   |                       |                       |                |       |                     |               |                                      |     |

**Notes:**  
1. Range of outer height measured from top of longitudinal rail to focal point (x-ray tube center)

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>TABLE 2</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
URP Detector: "X" is a number which may vary from a value of "1" to "99" and indicates firmware differences.

**Mounting Configuration:**  
Base mounted - rigid or Wall/Base mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0 g$   $z/h = 1.0$   $I_p = 1.5$   
 $S_{DS} = 2.5 g$   $z/h = 0.0$

| Assembly (Components)   | Subcomponents                | Model Number | Dimension (in) |       |             | Weight (lbs.) | Notes           | UUT     |
|-------------------------|------------------------------|--------------|----------------|-------|-------------|---------------|-----------------|---------|
|                         |                              |              | Depth          | Width | Height      |               |                 |         |
| Elevating Table         | Table <sup>1</sup>           | GCTBL-C2     | 36.7           | 94.5  | 19.7 - 33.5 | 705           |                 | 1       |
| System Cabinets         | System Cabinet <sup>3</sup>  | 5397035      | 23.8           | 28.0  | 55.3        | 705           |                 | 2       |
| Workstation             | HP Z420 NM Host <sup>4</sup> | 5370540-20   | 20.0           | 7.0   | 17.8        | 37            |                 | 12      |
|                         | HP Z420 Workstation          | 5840000-3    | 20.0           | 7.0   | 17.8        | 37            |                 | Interp. |
|                         |                              | 5840000-4    | 20.0           | 7.0   | 17.8        | 37            |                 | Interp. |
| Wallstands              | Wall Stand                   | GCWS-C1      | 52.9           | 27.0  | 103.5       | 596           |                 | 3       |
|                         | Extended Wall Stand          | GCEWS-C1     | 65.7           | 27.0  | 103.5       | 618           |                 | 4       |
| Detector (Subcomponent) | URP Detector                 | 5340000-X    | 17.8           | 23.0  | 1.0         | 10            | UUTs: 5340000-7 | 1, 3, 4 |

**Notes:**

1. Patient Table weight does not include the 706 lb. simulated patient load present during testing.
2. "X" is a number which may vary from a value of "1" to "99" and indicates firmware differences.
3. Unit is wall/floor mounted which equipment bears on, and may be anchored to, a supporting floor structure.
4. Unit is not a component of the radiography systems listed. It is included to establish a basis for other models listed herein.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>TABLE 3</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
URP Detector

**Mounting Configuration:**  
Wall mounted - rigid (UNO) or Base mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$   $I_p = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly (Components)     | Subcomponents | Model Number <sup>1</sup> | Dimension (in) |       |        | Weight (lbs.) | Notes <sup>3</sup> | UUT   |
|---------------------------|---------------|---------------------------|----------------|-------|--------|---------------|--------------------|-------|
|                           |               |                           | Depth          | Width | Height |               |                    |       |
| Dongle Assembly           | Dongle        | 5397317- X                | 6.1            | 7.0   | 3.8    | 5.5           |                    | 5     |
| Detector BIN <sup>2</sup> | BIN           | 5394348                   | 4.7            | 21.0  | 14.2   | 33            |                    | 6, 11 |
|                           | URP Detector  | 5340000-X                 | 17.8           | 23.0  | 1.0    | 10.5          | UUT: 5340000-7     |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |
|                           |               |                           |                |       |        |               |                    |       |

**Notes:**  
**1.** "X" is a number which may vary from a value of "1" to "99" and indicates firmware differences **2.** Equipment bears on, and may be anchored to, a supporting floor structure  
**3.** UUT6 was wall mounted - rigid, UUT11 was base mounted - rigid



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)   | Subcomponents                     | Model Number                | Dimension (in) |       |                     | Weight (lbs.) | Notes   | UUT     |
|---|-----------------------------------|-----------------------------|----------------|-------|---------------------|---------------|---|---------|
|   |                                   |                             | Depth          | Width | Height <sup>2</sup> |               |   |         |
| Overhead Tube Suspension <sup>1</sup><br>(4 meter bridge & 5135678-7) | 4 Meter Bridge                    | 5189123                     | 26.3           | 172.6 | 36.3 - 107.1        | 1,149         | UUT: 134" Longitudinal Rails<br>UUT: 1,092 lbs. | 19      |
|   | Tube Support <sup>3</sup>         | 5135678-7                   |                |       |                     |               |   |         |
|   | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |   |         |
|   | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |   |         |
| Overhead Tube Suspension <sup>1</sup><br>(4 meter bridge & 5135678-8) | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 | 26.3           | 172.6 | 36.3 - 107.1        | 1,149         |   | Interp. |
|   | 4 Meter Bridge                    | 5189123                     |                |       |                     |               |   |         |
|   | Tube Support <sup>4</sup>         | 5135678-8                   |                |       |                     |               |   |         |
|   | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |   |         |
|   | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |   |         |
|   | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 |                |       |                     |               |   |         |

**Notes:**  
**1.** Component of the XR656 HD system only   **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center)   **3.** US made   **4.** China made

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)  | Subcomponents                     | Model Number                | Dimension (in) |       |                     | Weight (lbs.) | Notes                         | UUT     |
|--|-----------------------------------|-----------------------------|----------------|-------|---------------------|---------------|-------------------------------|---------|
|  |                                   |                             | Depth          | Width | Height <sup>2</sup> |               |                               |         |
| Overhead Tube Suspension <sup>1</sup><br>(4 meter bridge & 5135678-9)  | 4 Meter Bridge                    | 5189123                     | 180.1          | 228.0 | 41.7 - 112.6        | 1,219         | UUT: 134" Longitudinal Rails  | Interp. |
|  | Tube Support <sup>3</sup>         | 5135678-9                   |                |       |                     |               |                               |         |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |                               |         |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |                               |         |
| Overhead Tube Suspension <sup>1</sup><br>(4 meter bridge & 5135678-10) | 4 Meter Bridge                    | 5189123                     | 180.1          | 228.0 | 41.7 - 112.6        | 1,219         | UUT: 228" Longitudinal Rails. | 22      |
|  | Tube Support <sup>4</sup>         | 5135678-10                  |                |       |                     |               |                               |         |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |                               |         |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |                               |         |
|  | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 |                |       |                     |               |                               |         |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)  | Subcomponents                     | Model Number                | Dimension (in) |       |                     | Weight (lbs.) | Notes                        | UUT               |
|--|-----------------------------------|-----------------------------|----------------|-------|---------------------|---------------|------------------------------|-------------------|
|  |                                   |                             | Depth          | Width | Height <sup>2</sup> |               |                              |                   |
| Overhead Tube Suspension <sup>1</sup><br>(4 meter bridge & 5135678-11) | 4 Meter Bridge                    | 5189123                     | 180.1          | 228.0 | 41.7 - 112.6        | 1,219         | UUT: 134" Longitudinal Rails | Same <sup>6</sup> |
|  | Tube Support <sup>5</sup>         | 5135678-11                  |                |       |                     |               |                              |                   |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |                              |                   |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |                              |                   |
| Overhead Tube Suspension <sup>1</sup><br>(3 meter bridge & 5135678-7)  | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 | 26.0           | 120.0 | 36.3 - 107.1        | 1,029         |                              | Interp.           |
|  | 3 Meter Bridge                    | 5127305                     |                |       |                     |               |                              |                   |
|  | Tube Support <sup>3</sup>         | 5135678-7                   |                |       |                     |               |                              |                   |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |                              |                   |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |                              |                   |
|  | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 |                |       |                     |               |                              |                   |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made **5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly<br>(Components)  | Subcomponents                        | Model Number                   | Dimension (in) |       |                     | Weight<br>(lbs.) | Notes | UUT     |
|---|--------------------------------------|--------------------------------|----------------|-------|---------------------|------------------|-------|---------|
|   |                                      |                                | Depth          | Width | Height <sup>2</sup> |                  |       |         |
| Overhead Tube Suspension <sup>1</sup><br>(3 meter bridge & 5135678-8) | 3 Meter Bridge                       | 5127305                        | 26.0           | 120.0 | 36.3 -<br>107.1     | 1,029            |       | Interp. |
|   | Tube Support <sup>4</sup>            | 5135678-8                      |                |       |                     |                  |       |         |
|   | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |         |
|   | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |         |
| Overhead Tube Suspension <sup>1</sup><br>(3 meter bridge & 5135678-9) | Longitudinal Rails<br>(134" to 228") | 46-316480G1 to<br>46-316480G24 | 127.6          | 228.0 | 41.7 -<br>112.6     | 1,069            |       | Interp. |
|   | 3 Meter Bridge                       | 5127305                        |                |       |                     |                  |       |         |
|   | Tube Support <sup>3</sup>            | 5135678-9                      |                |       |                     |                  |       |         |
|   | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |         |
|   | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |         |
|   | Longitudinal Rails<br>(134" to 228") | 46-316480G1 to<br>46-316480G24 |                |       |                     |                  |       |         |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made  
**5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly<br>(Components)   | Subcomponents                        | Model Number                   | Dimension (in) |       |                     | Weight<br>(lbs.) | Notes | UUT               |
|--|--------------------------------------|--------------------------------|----------------|-------|---------------------|------------------|-------|-------------------|
|  |                                      |                                | Depth          | Width | Height <sup>2</sup> |                  |       |                   |
| Overhead Tube Suspension <sup>1</sup><br>(3 meter bridge & 5135678-10) | 3 Meter Bridge                       | 5127305                        | 127.6          | 228.0 | 41.7 -<br>112.6     | 1,069            |       | Interp.           |
|  | Tube Support <sup>4</sup>            | 5135678-10                     |                |       |                     |                  |       |                   |
|  | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |                   |
|  | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |                   |
| Overhead Tube Suspension <sup>1</sup><br>(3 meter bridge & 5135678-11) | Longitudinal Rails<br>(134" to 228") | 46-316480G1 to<br>46-316480G24 | 127.6          | 228.0 | 41.7 -<br>112.6     | 1,069            |       | Same <sup>6</sup> |
|  | 3 Meter Bridge                       | 5127305                        |                |       |                     |                  |       |                   |
|  | Tube Support <sup>5</sup>            | 5135678-11                     |                |       |                     |                  |       |                   |
|  | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |                   |
|  | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |                   |
|  | Longitudinal Rails<br>(134" to 228") | 46-316480G1 to<br>46-316480G24 |                |       |                     |                  |       |                   |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made  
**5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)   | Subcomponents                     | Model Number                | Dimension (in) |       |                     | Weight (lbs.) | Notes   | UUT |
|---|-----------------------------------|-----------------------------|----------------|-------|---------------------|---------------|---------|-----|
|   |                                   |                             | Depth          | Width | Height <sup>2</sup> |               |         |     |
| Overhead Tube Suspension <sup>1</sup><br>(2 meter bridge & 5135678-7) | 2 Meter Bridge                    | 5143542                     | 26.0           | 82.6  | 36.3 - 107.1        | 927           | Interp. |     |
|   | Tube Support <sup>3</sup>         | 5135678-7                   |                |       |                     |               |         |     |
|   | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |         |     |
|   | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |         |     |
| Overhead Tube Suspension <sup>1</sup><br>(2 meter bridge & 5135678-8) | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 | 26.0           | 82.6  | 36.3 - 107.1        | 927           | Interp. |     |
|   | 2 Meter Bridge                    | 5143542                     |                |       |                     |               |         |     |
|   | Tube Support <sup>4</sup>         | 5135678-8                   |                |       |                     |               |         |     |
|   | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |         |     |
|   | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |         |     |
|   | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 |                |       |                     |               |         |     |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made **5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)  | Subcomponents                     | Model Number                | Dimension (in) |       |                     | Weight (lbs.) | Notes   | UUT |
|--|-----------------------------------|-----------------------------|----------------|-------|---------------------|---------------|---------|-----|
|  |                                   |                             | Depth          | Width | Height <sup>2</sup> |               |         |     |
| Overhead Tube Suspension <sup>1</sup><br>(2 meter bridge & 5135678-9)  | 2 Meter Bridge                    | 5143542                     | 90.6           | 228.0 | 41.7 - 112.6        | 1,022         | Interp. |     |
|  | Tube Support <sup>3</sup>         | 5135678-9                   |                |       |                     |               |         |     |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |         |     |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |         |     |
| Overhead Tube Suspension <sup>1</sup><br>(2 meter bridge & 5135678-10) | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 | 90.6           | 228.0 | 41.7 - 112.6        | 1,022         | Interp. |     |
|  | 2 Meter Bridge                    | 5143542                     |                |       |                     |               |         |     |
|  | Tube Support <sup>4</sup>         | 5135678-10                  |                |       |                     |               |         |     |
|  | X-Ray Tube                        | 46-155400G284               |                |       |                     |               |         |     |
|  | Collimator (AL01C II eL)          | 5730663                     |                |       |                     |               |         |     |
|  | Longitudinal Rails (134" to 228") | 46-316480G1 to 46-316480G24 |                |       |                     |               |         |     |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made **5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly (Components)  | Subcomponents                     | Model Number                   | Dimension (in) |       |                     | Weight (lbs.) | Notes | UUT               |
|--|-----------------------------------|--------------------------------|----------------|-------|---------------------|---------------|-------|-------------------|
|  |                                   |                                | Depth          | Width | Height <sup>2</sup> |               |       |                   |
| Overhead Tube Suspension <sup>1</sup><br>(2 meter bridge & 5135678-11) | 2 Meter Bridge                    | 5143542                        | 90.6           | 228.0 | 41.7 -<br>112.6     | 1,022         |       | Same <sup>6</sup> |
|  | Tube Support <sup>5</sup>         | 5135678-11 <sup>7</sup>        |                |       |                     |               |       |                   |
|  | X-Ray Tube                        | 46-155400G284                  |                |       |                     |               |       |                   |
|  | Collimator (AL01C II eL)          | 5730663                        |                |       |                     |               |       |                   |
| Overhead Tube Suspension <sup>7</sup><br>(4 meter bridge)              | Longitudinal Rails (134" to 228") | 46-316480G1 to<br>46-316480G24 | 26.3           | 172.6 | 32.0 -<br>102.6     | 1,170         |       | 10                |
|  | 4 Meter Bridge                    | 5189123                        |                |       |                     |               |       |                   |
|  | Tube Support                      | 5135678-3                      |                |       |                     |               |       |                   |
|  | X-Ray Tube                        | 46-155400G284                  |                |       |                     |               |       |                   |
|  | Collimator (AL01C II)             | 5234954                        |                |       |                     |               |       |                   |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made **5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.  
**7.** Unit is not a component of the systems identified in this table. It is included here to establish a basis for other models



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022      **Seismic Certification Limits:**  $S_{DS} = 2.0g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly<br>(Components)                                  | Subcomponents         | Model Number  | Dimension (in) |       |                     | Weight<br>(lbs.) | Notes | UUT |
|---|-----------------------|---------------|----------------|-------|---------------------|------------------|-------|-----|
|   |                       |               | Depth          | Width | Height <sup>2</sup> |                  |       |     |
| Overhead Tube Suspension <sup>7</sup><br>(3 meter bridge) | 3 Meter Bridge        | 5693325       | 25.8           | 120.5 | 35.5 -<br>106.3     | 885              |       | 8   |
|   | Tube Support          | 5139720       |                |       |                     |                  |       |     |
|   | X-Ray Tube            | 46-155400G284 |                |       |                     |                  |       |     |
|   | Collimator (AL01C II) | 5234954       |                |       |                     |                  |       |     |
| Overhead Tube Suspension <sup>7</sup><br>(2 meter bridge) | 2 Meter Bridge        | 5143542       | 25.8           | 83.9  | 32.0 -<br>102.6     | 880              |       | 9   |
|   | Tube Support          | 5135678-3     |                |       |                     |                  |       |     |
|   | X-Ray Tube            | 46-155400G284 |                |       |                     |                  |       |     |
|   | Collimator (AL01C II) | 5234954       |                |       |                     |                  |       |     |
|   |                       |               |                |       |                     |                  |       |     |
|   |                       |               |                |       |                     |                  |       |     |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made  
**5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.  
**7.** Unit is not a component of the systems identified in this table. It is included here to establish a basis for other models

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly<br>(Components)                                  | Subcomponents                        | Model Number                   | Dimension (in) |       |                     | Weight<br>(lbs.) | Notes | UUT     |
|---|--------------------------------------|--------------------------------|----------------|-------|---------------------|------------------|-------|---------|
|   |                                      |                                | Depth          | Width | Height <sup>2</sup> |                  |       |         |
| Overhead Tube Suspension <sup>8</sup><br>(2 meter bridge) | 2 Meter Bridge                       | 5693326                        | 25.8           | 472.0 | 35.5 -<br>106.3     | 937              |       | Interp. |
|   | Tube Support                         | 5139720                        |                |       |                     |                  |       |         |
|   | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |         |
|   | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |         |
|   | Longitudinal Rails<br>(156" to 228") | 5340818                        |                |       |                     |                  |       |         |
|   | Longitudinal Rails<br>(162" to 218") | 46-316480G8 to<br>46-316480G22 |                |       |                     |                  |       |         |
|   | Longitudinal Rails (228")            | 46-316480G24                   |                |       |                     |                  |       |         |
|   | Longitudinal Rails (12m)             | 5492991                        |                |       |                     |                  |       |         |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made  
**5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified. **7.** Unit is not a component of the systems identified in this table. It is included here to establish a basis for other models **8.** Component of the X646 HD system only

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 4</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
XR656 HD Systems: 2, 3, or 4 Meter Bridge. 134" to 228" Longitudinal Rails  
XR646 HD Systems: 2 or 3 Meter Bridge. 156" to 228", 162" to 218", 228", and 12m Longitudinal Rails

**Mounting Configuration:**  
Ceiling mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$     $z/h = 1.0$        $I_P = 1.5$   
 $S_{DS} = 2.5g$     $z/h = 0.0$

| Assembly<br>(Components)                                  | Subcomponents                        | Model Number                   | Dimension (in) |       |                     | Weight<br>(lbs.) | Notes | UUT     |
|---|--------------------------------------|--------------------------------|----------------|-------|---------------------|------------------|-------|---------|
|   |                                      |                                | Depth          | Width | Height <sup>2</sup> |                  |       |         |
| Overhead Tube Suspension <sup>8</sup><br>(3 meter bridge) | 3 Meter Bridge                       | 5693325                        | 26.0           | 472.0 | 35.5 -<br>106.3     | 954              |       | Interp. |
|   | Tube Support                         | 5139720                        |                |       |                     |                  |       |         |
|   | X-Ray Tube                           | 46-155400G284                  |                |       |                     |                  |       |         |
|   | Collimator (AL01C II eL)             | 5730663                        |                |       |                     |                  |       |         |
|   | Longitudinal Rails<br>(156" to 228") | 5340818                        |                |       |                     |                  |       |         |
|   | Longitudinal Rails<br>(162" to 218") | 46-316480G8 to<br>46-316480G22 |                |       |                     |                  |       |         |
|   | Longitudinal Rails (228")            | 46-316480G24                   |                |       |                     |                  |       |         |
|   | Longitudinal Rails (12m)             | 5492991                        |                |       |                     |                  |       |         |

**Notes:**  
**1.** Component of the XR656 HD system only **2.** Range of outer height from top of longitudinal rail to focal point (x-ray tube center) **3.** US made **4.** China made  
**5.** Mexico made **6.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified. **7.** Unit is not a component of the systems identified in this table. It is included here to establish a basis for other models **8.** Component of the X646 HD system only

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 5</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
Radiographic Tables & Wallstands: 14x17 or 17x17 FlashPad

**Mounting Configuration:**  
Base mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code:** CBC 2022  
**Seismic Certification Limits:**  $S_{DS} = 2.0 g$   $z/h = 1.0$   $I_P = 1.5$   
 $S_{DS} = 2.5 g$   $z/h = 0.0$

| Assembly (Components) | Subcomponents       | Model Number | Dimension (in) |       |             | Weight (lbs.)    | Notes | UUT               |
|-----------------------|---------------------|--------------|----------------|-------|-------------|------------------|-------|-------------------|
|                       |                     |              | Depth          | Width | Height      |                  |       |                   |
| Radiographic Table    | Table               | GCTBL-C3 #   | 36.0           | 95.0  | 20.0 - 33.5 | 838 <sup>1</sup> |       | 13                |
|                       |                     | GCTBL-C33    | 36.0           | 95.0  | 20.0 - 33.5 | 838 <sup>1</sup> |       | Interp.           |
|                       |                     | GCTBL-C5     | 33.0           | 91.7  | 20.7 - 32.5 | 727 <sup>2</sup> |       | 14a, 14b          |
|                       | Table (China)       | GCTBL-C333   | 36.7           | 94.5  | 19.7 - 33.5 | 692 <sup>3</sup> |       | 23                |
|                       | Table (Mexico)      | GCTBL-C3333  | 36.7           | 94.5  | 19.7 - 33.5 | 692 <sup>3</sup> |       | Same <sup>5</sup> |
| Wallstands            | Motorized Extended  | GCEWS-C3     | 65.7           | 27.0  | 103.5       | 642              |       | 20a, 20b          |
|                       | Motorized           | GCWS-C3      | 52.9           | 27.0  | 103.5       | 624              |       | Interp.           |
|                       | Manual <sup>4</sup> | GCMWS-C5     | 40.1           | 27.0  | 103.4       | 537              |       | 21                |
|                       | Non-tilting         | GCWS-C5      | 40.4           | 27.0  | 108.3       | 554              |       | Interp.           |

**Notes:**  
**1.** Patient Table weight does not include the 705 lb. simulated patient load present during testing. **2.** Patient Table weight does not include the 552 lb. simulated patient load present during testing. **3.** Patient weight does not include the 706 lb. simulated patient load present during testing. **4.** Component of the XR646 systems only.  
**5.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 5</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**  
Radiographic Tables & Wallstands: 14x17 or 17x17 FlashPad

**Mounting Configuration:**  
Base mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$   $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.5g$   $z/h = 0.0$

| Assembly (Components)      | Subcomponents                    | Model Number | Dimension (in) |       |        | Weight (lbs.) | Notes              | UUT               |
|----------------------------|----------------------------------|--------------|----------------|-------|--------|---------------|--------------------|-------------------|
|                            |                                  |              | Depth          | Width | Height |               |                    |                   |
| FlashPad HD (Subcomponent) | FlashPad HD 14 x 17 <sup>6</sup> | 5771417      | 15.0           | 18.0  | 0.6    | 7.2           |                    | 13, 21            |
|                            | FlashPad HD 17 x 17              | 5771717      | 18.0           | 18.0  | 0.6    | 8.4           |                    | 14, 20, 23        |
| System Cabinets            | System Cabinet <sup>7</sup>      | GCC-C3       | 26.0           | 33.3  | 58.0   | 705           | Measured: 679 lbs. | 16                |
|                            | System Cabinet                   | GCC-C4       | 23.6           | 35.4  | 36.7   | 459           |                    | 24                |
|                            | System Cabinet (Mexico)          | GCC-C44      | 23.6           | 35.4  | 36.7   | 459           | Same as GCC-C4     | Same <sup>5</sup> |
| Workstations <sup>8</sup>  | HP Z440 Workstation              | 8770000-24   | 17.5           | 6.6   | 17.0   | 39            |                    | 15                |
|                            | HP Z4G4 Workstation              | 8780000-W27  | 9.6            | 22.6  | 20.1   | 23            |                    | 25                |
|                            |                                  |              |                |       |        |               |                    |                   |
|                            |                                  |              |                |       |        |               |                    |                   |

**Notes:**  
**5.** Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico and China are identical. Manufacturing process at all locations are ISO 13485 certified.  
**6.** Seismically certified units shall have the detector retention bracket present during testing installed when used with 14 x 17 detector.  
**7.** Unit is wall/floor mounted which equipment bears on, and may be anchored to, a supporting floor structure. **8.** Monitor is not included, the monitor is portable

# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200668-CR-001-R4



|   |                |
|---|----------------|
| <b>Manufacturer:</b> GE Healthcare  | <b>TABLE 6</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                |

**Certified Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Certified Options Summary:**

**Mounting Configuration:**  
Wall mounted - rigid  
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0 g$     $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.5 g$     $z/h = 0.0$

| Assembly (Components)      | Subcomponents    | Model Number | Dimension (in) |       |        | Weight (lb) | Notes | UUT |
|----------------------------|------------------|--------------|----------------|-------|--------|-------------|-------|-----|
|                            |                  |              | Depth          | Width | Height |             |       |     |
| AP Assembly (7.1"x7.1")    | AP               | 5720157      | 7.1            | 7.1   | 3.0    | 1.3         |       | 17  |
|                            | Mounting Bracket | 5778430      |                |       |        |             |       |     |
| AP Assembly (5.5"x5.5")    | AP               | 5845913      | 5.5            | 5.5   | 0.8    | 1.3         |       | 26  |
|                            | Mounting Bracket | 5855356      |                |       |        |             |       |     |
| Tether Interface Box (TIB) |                  | 5765910      | 5.7            | 10.0  | 12.2   | 13.4        |       | 18  |
|                            |                  | 5876669      | 5.7            | 10.0  | 12.2   | 15          |       | 27  |
|                            |                  |              |                |       |        |             |       |     |
|                            |                  |              |                |       |        |             |       |     |
|                            |                  |              |                |       |        |             |       |     |
|                            |                  |              |                |       |        |             |       |     |
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# SPECIAL SEISMIC CERTIFICATION SEISMIC PARAMETERS

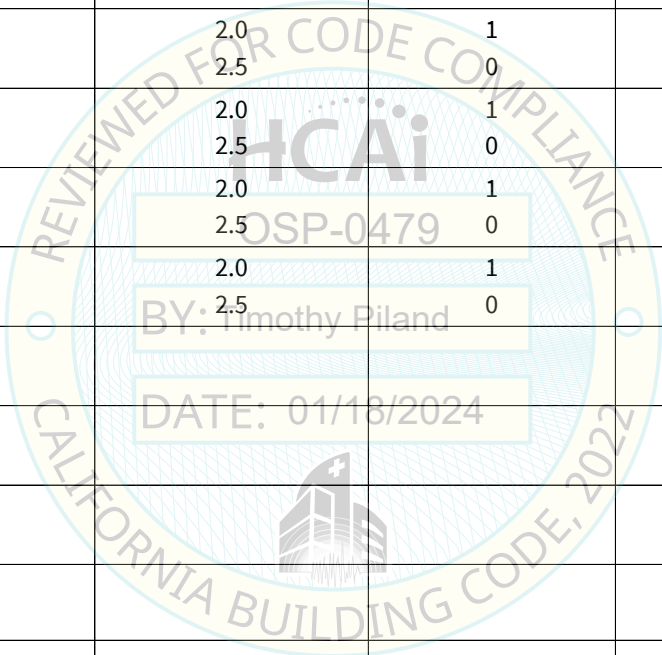
2200668-CR-001-R4



**Manufacturer:** GE Healthcare  
**Model Line:** Optima XR646/Discovery XR656 Plus/Optima XR646 HD/Discovery XR656 HD (Definium 656 HD)

**TABLE 7**

| Component                 | $F_p/W_p$ | $S_{Ds}$ | z/h | $a_p$ | $R_p$ |
|---------------------------|-----------|----------|-----|-------|-------|
| Overhead Tube<br>Supports | 3.60      | 2.0      | 1   | 2.5   | 2.5   |
|                           | 1.50      | 2.5      | 0   |       |       |
| Patient Tables            | 2.40      | 2.0      | 1   | 1.0   | 1.5   |
|                           | 1.13      | 2.5      | 0   |       |       |
| Wallstands                | 2.40      | 2.0      | 1   | 1.0   | 1.5   |
|                           | 1.13      | 2.5      | 0   |       |       |
| System<br>Cabinets        | 1.44      | 2.0      | 1   | 1     | 2.5   |
|                           | 1.13      | 2.5      | 0   |       |       |
| Workstations              | 1.50      | 2.0      | 1   | 2.5   | 6.0   |
|                           | 1.13      | 2.5      | 0   |       |       |
| Dongle<br>Assembly        | 1.50      | 2.0      | 1   | 2.5   | 6.0   |
|                           | 1.13      | 2.5      | 0   |       |       |
| Detector BIN              | 2.40      | 2.0      | 1   | 1.0   | 1.5   |
|                           | 1.13      | 2.5      | 0   |       |       |
|                           |           |          |     |       |       |
|                           |           |          |     |       |       |
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|                           |           |          |     |       |       |



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



| <b>Manufacturer:</b> GE Healthcare<br><b>Model Line:</b> Optima XR646 / Discovery XR656 Plus / Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |   |   |                                    |             |                       |                 |            |                |
|---|---|---|------------------------------------|-------------|-----------------------|-----------------|------------|----------------|
| UUT   | Unit Description (Mounting)   | Report Number (UUT #)                       | Testing Lab                        | Year Tested | ISO 17025 Accredited? | S <sub>DS</sub> | z/h        | I <sub>p</sub> |
| 1   | Elevating Table (GCTBL-C2)<br>(Base mounted - rigid)                                  | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT1)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 2   | System Cabinet (5397035)<br>(Wall/Base mounted-rigid)                                 | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT2)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 3   | Wall Stand (GCWS-C1)<br>(Base mounted - rigid)  | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT3)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 4   | Extended Wall Stand<br>(GCEWS-C1)<br>(Base mounted - rigid)                           | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT4)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 5   | Dongle Assembly<br>(5397317-X)<br>(Wall mounted - rigid)                              | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT5)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 6   | Detector BIN (5394348)<br>(Wall mounted - rigid)                                      | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT6)  | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 7   | Overhead Tube Support<br>(XR646 system - 2 meter bridge)<br>(Ceiling mounted - rigid) | SQ12-1609-01<br>XR646<br>(UUT7)             | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 8   | Overhead Tube Support<br>(XR646 system - 3 meter bridge)<br>(Ceiling mounted - rigid) | SQ12-1609-01<br>XR646<br>(UUT8)             | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 9   | Overhead Tube Support<br>(XR656 system - 2 meter bridge)<br>(Ceiling mounted - rigid) | SQ12-1609-01<br>XR656 Plus<br>(UUT9)        | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 10  | Overhead Tube Support<br>(XR656 system - 4 meter bridge)<br>(Ceiling mounted - rigid) | SQ12-1609-01<br>XR656 Plus<br>(UUT10)       | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 11  | Detector BIN (5394348)<br>(Base mounted - rigid)                                      | SQ12-1609-01<br>XR646/XR656 Plus<br>(UUT11) | Environmental<br>Testing Lab (ETL) | 2016        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |

**Notes:**



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



| <b>Manufacturer:</b> GE Healthcare<br><b>Model Line:</b> Optima XR646 / Discovery XR656 Plus / Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |  |   |                                |             |                       |                 |            |                |
|---|--|---|--------------------------------|-------------|-----------------------|-----------------|------------|----------------|
| UUT   | Unit Description (Mounting)  | Report Number (UUT #)                     | Testing Lab                    | Year Tested | ISO 17025 Accredited? | S <sub>DS</sub> | z/h        | I <sub>p</sub> |
| 12  | HP Z420 NM Host (5370540-20) (Base mounted - rigid)  | SQ12143501 XR646/XR656 Plus (UUT1)        | Environmental Tesing Lab (ETL) | 2014        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 13  | Radiographic Table (GCTBL-C3) w/ FlashPad HD 14x17 (Base mounted - rigid)                        | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT1)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 14a   | Radiographic Table (GCTBL-C5) w/ FlashPad HD 17x17 with Detector Tray (Base mounted - rigid)     | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT2)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 14b   | Radiographic Table (GCTBL-C5) w/ FlashPad HD 17x17 W/O Detector Tray (Base mounted - rigid)      | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT2A) | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 15  | HP Z440 Workstation (8770000-24) (Base mounted - rigid)  | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT3)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 16  | System Cabinet (GCC-C3) (Wall/Base mounted-rigid)  | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT4)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 17  | AP Assembly (5720157) w/ Mounting Bracket (Wall mounted - rigid)                                 | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT5)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 18  | Tether Interface Box, TIB (5765910) (Wall mounted - rigid)                                       | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT6)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 19  | Overhead Tube Suspension (4-meter bridge w/ Tube Support 5135678-7) (Ceiling mounted - rigid)    | SQ12-1812-01 r2 XR656 HD (UUT7)           | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 20a   | Motorized Extended Wall (GCEWS-C3) w/ FlashPad HD 17x17 withDetector Tray (Base mounted - rigid) | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT8)  | Environmental Tesing Lab (ETL) | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |

Notes:

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



| <b>Manufacturer:</b> GE Healthcare<br><b>Model Line:</b> Optima XR646 / Discovery XR656 Plus / Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |  |   |   |             |                       |                 |            |                |
|---|--|---|---|-------------|-----------------------|-----------------|------------|----------------|
| UUT   | Unit Description (Mounting)  | Report Number (UUT #)                     | Testing Lab                               | Year Tested | ISO 17025 Accredited? | S <sub>DS</sub> | z/h        | I <sub>p</sub> |
| 20b   | Motorized Extended Wall (GCEWS-C3) w/ FlashPad HD 17x17 W/O Detector Tray (Base mounted - rigid) | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT8A) | Environmental Tesing Lab (ETL)            | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 21  | Manual Extended Wall (GCMWS-C5) w/ FlashPad HD 14x17 (Base mounted - rigid)                      | SQ12-1812-01 r2 XR646 HD/XR656 HD (UUT9)  | Environmental Tesing Lab (ETL)            | 2018        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 22  | Overhead Tube Suspension (4 meter bridge w/ Tube Support 5135678-10) (Ceiling mounted - rigid)   | No. B22X80804 Rev.1 XR656 HD (UUT1)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 23  | Radiographic Table (GCTBL-C333) w/ FlashPad HD 17x17 (Base mounted - rigid)                      | No. B22X80804 Rev.1 XR656 HD (UUT2)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 24  | System Cabinet (GCC-C4) (Base mounted - rigid)   | No. B22X80804 Rev.1 XR656 HD (UUT3)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 25  | HP Z4G4 Workstation (8780000-W27) (Base mounted - rigid)   | No. B22X80804 Rev.1 XR656 HD (UUT4)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 26  | AP Assembly (5845913) w/ Mounting Bracket (Wall mounted - rigid)                                 | No. B22X80804 Rev.1 XR656 HD (UUT5)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
| 27  | Tether Interface Box, TIB (5876669) (Wall mounted - rigid)                                       | No. B22X80804 Rev.1 XR656 HD (UUT6)       | China Telecommunication Technology (CTTL) | 2022        | Yes                   | 2.0<br>2.5      | 1.0<br>0.0 | 1.5            |
|   |  |   |   |             |                       |                 |            |                |
|   |  |   |   |             |                       |                 |            |                |

Notes:

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>UUT 1</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |              |
| <b>Model Number:</b> Elevating Table (GCTBL-C2)        |              |
| <b>Serial Number:</b> 133632HLO                        |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT1)                |              |

| UUT Properties             |                |       |                            |                               |           |          |
|----------------------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Tested Height <sup>2</sup> | Front-Back                    | Side-Side | Vertical |
| 1,411                      | 36.7           | 94.5  | 31.0                       | 4.7                           | 14.0      | 6.7      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b> |
|---|-------------------------------|

| <b>Options/Subcomponent Summary:</b> |             |  |
|--------------------------------------|-------------|--|
| Description                          | Part Number |  |
| URP Detector (GE Healthcare)         | 5340000-7   |  |
|                                      |             |  |
|                                      |             |  |
|                                      |             |  |
|                                      |             |  |

|  |   |
|--|---|
| <b>Test Mounting Details:</b>  |   |
| <p><sup>1</sup>Weight listed is the total weight. Individual details are as follows:</p> <p>Table: 705 lbs.<br/>Patient: 706 lbs.</p> <p><sup>2</sup>Min Height: 19.7"<br/>Max Height: 33.5"</p> | <p>UUT1 was base mounted - rigid using four (4) 1/2" Grade 8 bolts torqued to 40 ft-lb on an aluminum interface plate.</p> <p>Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p> |



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |                                     |                     |
|-----------------------|-------------------------------------|---------------------|
| <b>Manufacturer:</b>  | GE Healthcare                       | <h2>UUT 3</h2>      |
| <b>Model Line:</b>    | Optima XR646 / Discovery XR656 Plus |                     |
| <b>Model Number:</b>  | Wall Stand (GCWS-C1)                |                     |
| <b>Serial Number:</b> | 135195HL6                           |                     |
| <b>Test Report:</b>   |                                     | SQ12-1609-01 (UUT3) |

### UUT Properties

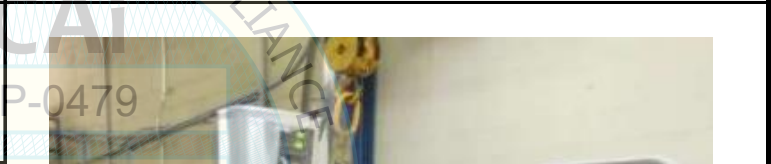
| Weight<br>(lbs.) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|------------------|----------------|-------|--------|-------------------------------|-----------|----------|
|                  | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 596              | 52.9           | 27.0  | 103.5  | 8.4                           | 4.7       | 14.4     |

### UUT Highest Passed Seismic Run Information

| Building Code | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |
|---------------|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022      | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |
|               |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |

|                                      |                               |
|--------------------------------------|-------------------------------|
| <b>Product Construction Summary:</b> | <b>Test Mounting Details:</b> |
|--------------------------------------|-------------------------------|

Constructed of carbon steel, aluminum, and plastic components



**Options/Subcomponent Summary:**

| Description                     | Part Number |
|---------------------------------|-------------|
| URP Detector<br>(GE Healthcare) | 5340000-7   |
|                                 |             |
|                                 |             |
|                                 |             |
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|                                 |             |
|                                 |             |

UUT3 was base mounted - rigid using four (4) 5/8" Grade 8 bolts torqued to 60 ft-lbs.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>UUT 4</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |              |
| <b>Model Number:</b> Extended Wall Stand (GCEWS-C1)    |              |
| <b>Serial Number:</b> 135586HL6                        |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT4)                |              |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 618            | 65.7           | 27.0  | 103.5  | 8.7                           | 3.3       | 5.0      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description                  | Part Number |
|------------------------------|-------------|
| URP Detector (GE Healthcare) | 5340000-7   |
|                              |             |
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UUT4 was base mounted - rigid using four (4) 5/8" Grade 8 bolts torqued to 60 ft-lbs.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |                |
|--|----------------|
| <b>Manufacturer:</b> GE Healthcare                     | <h2>UUT 5</h2> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |                |
| <b>Model Number:</b> Dongle Assembly (5397317-X)       |                |
| <b>Serial Number:</b> N/A                              |                |
| <b>Test Report:</b> SQ12-1609-01 (UUT5)                |                |

| UUT Properties   |                |       |        |                               |           |          |
|------------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight<br>(lbs.) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                  | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 5.5              | 6.1            | 7.0   | 3.8    | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |              |     |       |                 |                 |                 |                 |  |
|--|---------------|--------------|-----|-------|-----------------|-----------------|-----------------|-----------------|--|
| Building Code                              | Test Criteria | $S_{Ds}$ (g) | z/h | $I_p$ | $A_{FLX-H}$ (g) | $A_{RIG-H}$ (g) | $A_{FLX-V}$ (g) | $A_{RIG-V}$ (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0          | 1.0 | 1.5   | 3.20            | 2.40            | 1.67            | 0.67            |  |
|  |               | 2.5          | 0.0 |       |                 |                 |                 |                 |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description | Part Number |
|-------------|-------------|
| N/A         | N/A         |
|             |             |
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UUT5 was wall mounted - rigid using two (2) #10 screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare                     | <b>UUT 6</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |              |
| <b>Model Number:</b> Detector BIN (5394348)            |              |
| <b>Serial Number:</b> 300752382-184-04                 |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT6)                |              |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 33             | 4.7            | 21.0  | 14.2   | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |  |
|---|--|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b><br> |
|---|--|

| Options/Subcomponent Summary:                                   |             |
|---|-------------|
| Description   | Part Number |
| URP Detector (GE Healthcare)                                    | 5340000-7   |
| 5/8" wall board (5 lbs.) Installed in rear slot as storage load |             |
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UUT6 was wall mounted - rigid using three (3) #10 hex washer head Tek screws and 1-1/4" o.d. fender washer provided at bottom connection point. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare   | <b>UUT 7</b> |
| <b>Model Line:</b> Optima XR646  |              |
| <b>Model Number:</b> Overhead Tube Support (XR646 system - 2 meter bridge) |              |
| <b>Serial Number:</b> N/A  |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT7)                                    |              |

| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 820            | 25.8           | 83.5  | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description                              | Part Number   |
|--|---------------|
| Collimator (AL01C II)<br>(GE Healthcare) | Type: 5234954 |
| Longitudinal Rails<br>(GE Healthcare)    | 5340818       |
| OTS 2M Bridge<br>(GE Healthcare)         | 5693326       |
| Tube Support<br>(GE Healthcare)          | 5139720       |
| X-Ray Tube<br>(GE Healthcare)            | 46-154400G284 |
|  |               |



**Test Mounting Details:**

<sup>1</sup> Height from top of longitudinal rail to focal point (x-ray tube center)

Min Height: 35.5"  
Max Height: 106.3"

UUT7 was ceiling mounted - rigid using 1/2" bolts and unistrut P1010 channel nuts with springs at each end and 26" o.c. Typical each longitudinal rail (5 locations each rail / 10 locations total) Unistrut parallel to rail. The bridge system was powered on and locked by an electromagnetic brake when testing, same as normal use. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare   | <b>UUT 8</b> |
| <b>Model Line:</b> Optima XR646  |              |
| <b>Model Number:</b> Overhead Tube Support (XR646 system - 3 meter bridge) |              |
| <b>Serial Number:</b> N/A  |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT8)                                    |              |

| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 885            | 25.8           | 120.5 | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |  |
|---|--|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b><br> |
|---|--|

| Options/Subcomponent Summary:            |               |
|--|---------------|
| Description                              | Part Number   |
| Collimator (AL01C II)<br>(GE Healthcare) | Type: 5234954 |
| Longitudinal Rails<br>(GE Healthcare)    | 5340818       |
| OTS 3M Bridge<br>(GE Healthcare)         | 5693325       |
| Tube Support<br>(GE Healthcare)          | 5139720       |
| X-Ray Tube<br>(GE Healthcare)            | 46-154400G284 |
|  |               |

**Test Mounting Details:**

<sup>1</sup> Height from top of longitudinal rail to focal point (x-ray tube center)

Min Height: 35.5"  
Max Height: 106.3"

UUT8 was ceiling mounted - rigid using 1/2" bolts and unistrut P1010 channel nuts with springs at each end and 26" o.c. Typical each longitudinal rail (5 locations each rail / 10 locations total) Unistrut parallel to rail.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4




|  |              |
|--|--------------|
| <b>Manufacturer:</b> GE Healthcare   | <b>UUT 9</b> |
| <b>Model Line:</b> Discovery XR656 Plus                                    |              |
| <b>Model Number:</b> Overhead Tube Support (XR656 system - 2 meter bridge) |              |
| <b>Serial Number:</b> N/A  |              |
| <b>Test Report:</b> SQ12-1609-01 (UUT9)                                    |              |

| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 880            | 25.8           | 83.9  | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>P</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**



**Options/Subcomponent Summary:**

| Description                              | Part Number   |
|--|---------------|
| Collimator (AL01C II)<br>(GE Healthcare) | 5234954       |
| Longitudinal Rails<br>(GE Healthcare)    | 5340818       |
| OTS 2M Bridge<br>(GE Healthcare)         | 5143542       |
| Tube Support<br>(GE Healthcare)          | 5135678-3     |
| X-Ray Tube<br>(GE Healthcare)            | 46-154400G284 |
|  |               |

**Test Mounting Details:**

<sup>1</sup> Height from top of longitudinal rail to focal point (x-ray tube center)

Min Height: 32.0"  
Max Height: 102.6"

UUT9 was ceiling mounted - rigid using 1/2" bolts and unistrut P1010 channel nuts with springs at each end and 26" o.c. Typical each longitudinal rail (5 locations each rail / 10 locations total) Unistrut parallel to rail.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|  |               |
|--|---------------|
| <b>Manufacturer:</b> GE Healthcare   | <b>UUT 10</b> |
| <b>Model Line:</b> Discovery XR656 Plus                                    |               |
| <b>Model Number:</b> Overhead Tube Support (XR656 system - 4 meter bridge) |               |
| <b>Serial Number:</b> N/A  |               |
| <b>Test Report:</b> SQ12-1609-01 (UUT10)                                   |               |

| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 1,170          | 26.3           | 157.0 | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |  |
|---|--|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b><br> |
|---|--|

| Options/Subcomponent Summary:            |               |
|--|---------------|
| Description                              | Part Number   |
| Collimator (AL01C II)<br>(GE Healthcare) | 5234954       |
| Longitudinal Rails<br>(GE Healthcare)    | 5340818       |
| OTS 4M Bridge<br>(GE Healthcare)         | 5189123       |
| Tube Support<br>(GE Healthcare)          | 5135678-3     |
| X-Ray Tube<br>(GE Healthcare)            | 46-154400G284 |
|  |               |

**Test Mounting Details:**

<sup>1</sup> Height from top of longitudinal rail to focal point (x-ray tube center)

Min Height: 32.0"  
Max Height: 102.6"

UUT10 was ceiling mounted - rigid using 1/2" bolts and unistrut P1010 channel nuts with springs at each end and 26" o.c. Typical each longitudinal rail (5 locations each rail / 10 locations total) Unistrut parallel to rail. The bridge system was powered on and locked by an electromagnetic brake when testing, same as normal use. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|   |                 |
|---|-----------------|
| <b>Manufacturer:</b> GE Hualun Medical Systems, Co. Ltd | <h2>UUT 11</h2> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus  |                 |
| <b>Model Number:</b> Detector BIN (5394348)             |                 |
| <b>Serial Number:</b> 300752382-184-04                  |                 |


**Test Report:** SQ12-1609-01 (UUT11)

**UUT Properties**

| Weight (lbs.) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|---------------|----------------|-------|--------|-------------------------------|-----------|----------|
|               | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 33            | 4.7            | 21.0  | 14.2   | 1.2                           | 30.8      | 14.7     |

**UUT Highest Passed Seismic Run Information**

| Building Code | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |
|---------------|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022      | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |
|               |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |

|   |   |
|---|---|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b>   |
| Constructed of carbon steel, aluminum, and plastic components |  |

| Options/Subcomponent Summary: |             |
|-------------------------------|-------------|
| Description                   | Part Number |
| URP Detector (GE Healthcare)  | 5340000-7   |
|                               |             |
|                               |             |
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UUT11 was base mounted - rigid using six (6) 1/4" hex socket countersunk machine screws to tapped holes in aluminum plate. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |               |
|--|---------------|
| <b>Manufacturer:</b> HP                                | <b>UUT 12</b> |
| <b>Model Line:</b> Optima XR646 / Discovery XR656 Plus |               |
| <b>Model Number:</b> HP Z420 NM Host (5370540-20)      |               |
| <b>Serial Number:</b> CZC4270858                       |               |
| <b>Test Report:</b> SQ12143501 (UUT1)                  |               |

**UUT Properties**

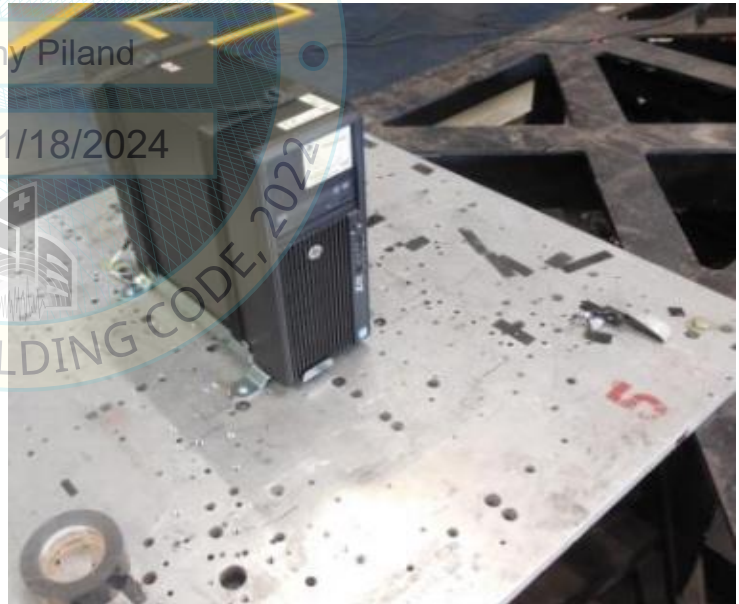
| Weight (lbs.) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|---------------|----------------|-------|--------|-------------------------------|-----------|----------|
|               | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 37            | 20.0           | 7.0   | 17.8   | 18.8                          | 32.9      | >33.3    |

**UUT Highest Passed Seismic Run Information**

| Building Code | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |
|---------------|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022      | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |
|               |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |

|   |  |
|---|--|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b><br><div style="text-align: center; border: 1px solid black; padding: 5px;">HCAI<br/>OSP-0479</div> |
|---|--|

| Options/Subcomponent Summary: |             |
|-------------------------------|-------------|
| Description                   | Part Number |
| N/A                           | N/A         |
|                               |             |
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UUT12 was base mounted - rigid strapped into GE-provided Computer Seismic Base anchored to interface plate with four(4) 1/4" hex head bolts and washers. UUT was secured to mounting bracket with two (2) - 1" wide straps, mounting bracket and straps provided by GE (P/N 5813338).  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |                        |
|-----------------------|--|------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                     | <b>UUT 13</b>          |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                        |
| <b>Model Number:</b>  | Radiographic Table (GCTBL-C3) w/ FlashPad HD 14x17     |                        |
| <b>Serial Number:</b> | SEIS TBL-01  |                        |
| <b>Test Report:</b>   |  | SQ12-1812-01 r2 (UUT1) |

| UUT Properties             |                |       |                            |                               |           |          |
|----------------------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Tested Height <sup>2</sup> | Front-Back                    | Side-Side | Vertical |
| 838                        | 95.0           | 36.0  | 33.5                       | 2.12                          | >33.33    | 8.01     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b>  | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components<br>Table is also referred to as "Global G3 Table" |                               |

| Options/Subcomponent Summary:                                    |   |
|--|---|
| Description  | Part Number                                       |
| Detector:<br>GE FlashPad HD 3543 wireless removable detector     | Model No. 5771417-ENG<br>Serial No. 31736417E1502 |
| X-Ray Grid (Anti-Scatter Grid):<br>120cm by Mitaya Mfg. Co. Ltd. | GE P/N 46-286129P74                               |
|  |   |
|  |   |



|   |
|---|
| <b>Test Mounting Details:</b>   |
| <p><sup>1</sup>Weight listed is the table weight.</p> <p>706 lbs. simulated patient load present during testing is not listed.</p> <p><sup>2</sup>Min Height: 20.0"<br/>Max Height: 33.5"</p> |

UUT13 was base mounted - rigid using four (4) 1/2" SAE J429 Grade 8 bolts to tapped holes in aluminum plate. Detector tray included a retention bracket, which GE states is part of the standard mfd product, to secure 14x17 detector to the tray during testing. Bracket must be removed to exchange detectors and re-installed when 14x17 detector is used. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |   |  |
|-----------------------|---|--|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                                    | <b>UUT 14a</b>                             |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD)                |  |
| <b>Model Number:</b>  | Radiographic Table (GCTBL-C5) w/ FlashPad HD 17x17 with Detector Tray |  |
| <b>Serial Number:</b> | Seis TBL-02   |  |
|                       |   | <b>Test Report:</b> SQ12-1812-01 r2 (UUT2) |

| UUT Properties             |                |       |                            |                               |           |          |
|----------------------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Tested Height <sup>2</sup> | Front-Back                    | Side-Side | Vertical |
| 727                        | 33.00          | 91.70 | 32.25                      | 5.06                          | 3.39      | 7.81     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>P</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components  
Table is also referred to as "G3 Standard Table" and "Chogri Table"

**Test Mounting Details:**

| Options/Subcomponent Summary:                                    |   |
|--|---|
| Description  | Part Number                                       |
| Detector:<br>GE FlashPad HD 4343 wireless removable detector     | Model No. 5781717-ENG<br>Serial No. 31823717E2437 |
| X-Ray Grid (Anti-Scatter Grid):<br>110cm by Mitaya Mfg. Co. Ltd. | GE P/N 46-286129P73                               |
|  |   |
|  |   |



**Test Mounting Details:**

<sup>1</sup>Weight listed is the table weight.

552 lbs. simulated patient load present during testing is not listed.

<sup>2</sup>Min Height: 20.7"  
Max Height: 32.5"

UUT14 was base mounted - rigid using four (4) 3/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate and torqued to 25 ft-lbs. UUT14a used a FlashPad HD 17x17 with detector tray release latch screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |   |
|-----------------------|--|---|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                                   | <b>UUT 14b</b>                              |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD)               |   |
| <b>Model Number:</b>  | Radiographic Table (GCTBL-C5) w/ FlashPad HD 17x17 W/O Detector Tray |   |
| <b>Serial Number:</b> | Seis TBL-02  |   |
|                       |  | <b>Test Report:</b> SQ12-1812-01 r2 (UUT2A) |

| UUT Properties             |                |       |                            |                               |           |          |
|----------------------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Tested Height <sup>2</sup> | Front-Back                    | Side-Side | Vertical |
| 727                        | 33.00          | 91.70 | 32.25                      | 5.06                          | 3.39      | 7.81     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|  |                               |
|--|-------------------------------|
| <b>Product Construction Summary:</b>   | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components<br>Table is also referred to as "G3 Standard Table" and "Chogri Table" |                               |

| Options/Subcomponent Summary:                                    |   |
|--|---|
| Description  | Part Number                                       |
| Detector:<br>GE FlashPad HD 4343 wireless removable detector     | Model No. 5781717-ENG<br>Serial No. 31823717E2437 |
| X-Ray Grid (Anti-Scatter Grid):<br>110cm by Mitaya Mfg. Co. Ltd. | GE P/N 46-286129P73                               |
|  |   |
|  |   |



|   |
|---|
| <b>Test Mounting Details:</b>   |
| <div style="border: 1px solid black; padding: 5px;"> <p><sup>1</sup>Weight listed is the table weight.</p> <p>552 lbs. simulated patient load present during testing is not listed.</p> <p><sup>2</sup>Min Height: 20.7"<br/>Max Height: 32.5"</p> </div> <p>UUT14 was base mounted - rigid using four (4) 3/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate and torqued to 25 ft-lbs. UUT14b used a FlashPad HD 17x17 with out detector tray release latch screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p> |

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|   |               |
|---|---------------|
| <b>Manufacturer:</b> HP   | <b>UUT 15</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |               |
| <b>Model Number:</b> HP Z440 Workstation (8770000-24)                     |               |
| <b>Serial Number:</b> 4CV813W6R4  |               |
| <b>Test Report:</b> SQ12-1812-01 r2 (UUT3)                                |               |

| UUT Properties             |                |       |        |                               |           |          |
|----------------------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 34                         | 17.5           | 6.6   | 17.0   | 11.2                          | 30.4      | 16.6     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b> |
|---|-------------------------------|

| Options/Subcomponent Summary: |                           |
|-------------------------------|---------------------------|
| Description                   | Part Number               |
| NIC                           | 350-T2 & 350-T4 1GbE RJ45 |
| HP Z440 Workstation           | 2EL23UC#AB2               |
| NVIDIA K2200                  |                           |
| Dual Port Canbus Card         |                           |
| Single Port Adapter           |                           |



|  |
|--|
| <b>Test Mounting Details:</b>              |
| <sup>1</sup> Weight listed is with bracket |

UUT15 was base - mounted using four (4) 3/8" SAE J429 Grade 8 bolts through steel mounting bracket to tapped holes in aluminum plate. PC secured to mounting bracket with two (2) - 1" wide straps. Mounting brackets & straps provided by GE (P/N 5813338). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |                        |
|-----------------------|--|------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                     | <b>UUT 16</b>          |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                        |
| <b>Model Number:</b>  | System Cabinet (GCC-C3)                                |                        |
| <b>Serial Number:</b> | Seis Cab-01  |                        |
| <b>Test Report:</b>   |  | SQ12-1812-01 r2 (UUT4) |

| UUT Properties             |                |       |        |                               |           |          |
|----------------------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 705                        | 26.0           | 33.3  | 58.0   | 12.93                         | 9.40      | 17.58    |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components |                               |

| Options/Subcomponent Summary: |             |
|-------------------------------|-------------|
| Description                   | Part Number |
| N/A                           | N/A         |
|                               |             |
|                               |             |
|                               |             |
|                               |             |
|                               |             |

|   |
|---|
| <b>Test Mounting Details:</b>   |
| <p><sup>1</sup>Weight listed</p> <p>Reported: 705 lbs.<br/>Measured: 679 lbs.</p> |

UUT16 was wall/floor mounted using one (1) 5mm steel bracket (P/N 5692807) at top with six (6) 1/4" self-tapping, self-threading, hex washer head sheet metal (Tek) screws through 5/8" drywall to 4x16ga steel track backing plate in wall and two (2) M12 bolts (P/N 3212284) to cabinet.

Also using two (2) 5mm steel brackets (P/N 5692809), one each side. Each bracket secured with three (3) 1/4" Tek screws through 5/8" drywall to 4x16ga steel track backing plate in wall and two (2) M5 Class 8.8 screws (P/N 5694430) to cabinet.

Unit bears on, but is not anchored to, the floor structure.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |   |                        |
|-----------------------|---|------------------------|
| <b>Manufacturer:</b>  | Aruba Networks, Inc.                                  | <b>UUT 17</b>          |
| <b>Model Line:</b>    | Optima XR646 HD/ Discovery XR656 HD (Definium 656 HD) |                        |
| <b>Model Number:</b>  | AP Assembly (5720157) w/ Mounting Bracket             |                        |
| <b>Serial Number:</b> | CNBXHHB2KM  |                        |
| <b>Test Report:</b>   |   | SQ12-1812-01 r2 (UUT5) |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 1.4            | 7.1            | 7.1   | 3.0    | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>Ds</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components |                               |

| Options/Subcomponent Summary: |              |
|-------------------------------|--------------|
| Description                   | Model Number |
| Wireless Access Point Aruba   | APIN0215     |
|                               |              |
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UUT17 was wall mounted - rigid using four (4) #8 self-tapping, self-threading, hex washer head sheet metal (Tek) screws through 5/8" drywall to 4x16ga steel track backing plate in wall. Mounting bracket GE (model no. 5778430). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |  |                 |
|--|--|-----------------|
| <b>Manufacturer:</b> GE Hualun Medical Systems, Co. Ltd                  |  | <h2>UUT 18</h2> |
| <b>Model Line:</b> Optima XR646 HD/ Discovery XR656 HD (Definium 656 HD) |  |                 |
| <b>Model Number:</b> Tether Interface Box, TIB (5765910)                 |  |                 |
| <b>Serial Number:</b> N/A  |  |                 |
| <b>Test Report:</b> SQ12-1812-01 r2 (UUT6)                               |  |                 |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 13.4           | 5.7            | 10.0  | 12.2   | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>Ds</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description | Model Number |
|-------------|--------------|
| N/A         | N/A          |
|             |              |
|             |              |
|             |              |
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UUT18 was wall mounted - rigid using two (2) 1/4" self-tapping, self-threading, hex washer head sheet metal (Tek) screws through 5/8" drywall to 4x16ga steel track backing plate in wall. Tether stored in box during testing.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |   |                        |
|-----------------------|---|------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                                  | <b>UUT 19</b>          |
| <b>Model Line:</b>    | Discovery XR656 HD (Definium 656 HD)                                |                        |
| <b>Model Number:</b>  | Overhead Tube Suspension (4 meter bridge w/ Tube Support 5135678-7) |                        |
| <b>Serial Number:</b> | N/A   |                        |
| <b>Test Report:</b>   |   | SQ12-1812-01 r2 (UUT7) |

| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 1,092          | 26.3           | 172.6 | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components |                               |

| Options/Subcomponent Summary:             |               |
|---|---------------|
| Description                               | Part Number   |
| 4 Meter Bridge (GE Healthcare)            | 5189123       |
| Longitudinal Rails (134") (GE Healthcare) | 46-316480G1   |
| Collimator (AL01C II eL) (GE Healthcare)  | 5739663       |
| Tube Support (GE Healthcare)              | 5135678-7     |
| X-Ray Tube (GE Healthcare)                | 46-154400G284 |
|   |               |



|   |
|---|
| <b>Test Mounting Details:</b>   |
| <p><sup>1</sup> Height from top of longitudinal rail to focal point (x-ray tube center)</p> <p>Min Height: 36.3"<br/>Max Height: 107.1"</p> |

UUT19 was ceiling mounted - rigid using 1/2" bolts and unistrut P1010 channel nuts with springs at each end and 26" o.c. Typical each longitudinal rail (6 locations each rail / 12 locations total). The bridge system was powered on and locked by an electromagnetic brake when testing, same as normal use.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |  |
|-----------------------|--|--|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd   | <b>UUT 20a</b>                             |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD)                     |  |
| <b>Model Number:</b>  | Motorized Extended Wall (GCEWS-C3) w/ FlashPad HD 17x17 with Detector Tray |  |
| <b>Serial Number:</b> | Seis Ex WS-01  |  |
|                       |  | <b>Test Report:</b> SQ12-1812-01 r2 (UUT8) |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 642            | 65.7           | 27.0  | 103.5  | 3.75                          | 8.05      | 6.97     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |                               |
|---|-------------------------------|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b> |
| Constructed of carbon steel, aluminum, and plastic components |                               |

| Options/Subcomponent Summary:   |   |
|---|---|
| Description   | Part Number                                       |
| Detector:<br>GE FlashPad HD 4343 wireless removable detector  | Model No. 5781717-ENG<br>Serial No. 31825717E2451 |
| X-Ray Grid (Anti-Scatter Grid):<br>130cm by Mitaya Mfg. Co. Ltd.  | GE P/N 46-286129P75                               |
| *Grid holder tray included a supplemental latching mechanism, which is not part of the standard mfd product, to secure grid within tray during test |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

UUT20 was base mounted - rigid using four (4) 5/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate.  
 UUT20a used a FlashPad HD 17x17 with detector tray release latch screws  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |   |                         |
|-----------------------|---|-------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd  | <b>UUT 20b</b>          |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD)                    |                         |
| <b>Model Number:</b>  | Motorized Extended Wall (GCEWS-C3) w/ FlashPad HD 17x17 W/O Detector Tray |                         |
| <b>Serial Number:</b> | Seis Ex WS-01   |                         |
| <b>Test Report:</b>   |   | SQ12-1812-01 r2 (UUT8A) |

### UUT Properties

| Weight (lbs.) | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|---------------|----------------|-------|--------|-------------------------------|-----------|----------|
|               | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 642           | 65.7           | 27.0  | 103.5  | 3.75                          | 8.05      | 6.97     |

### UUT Highest Passed Seismic Run Information

| Building Code | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |
|---------------|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|
| CBC 2022      | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |
|               |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |

### Product Construction Summary: Test Mounting Details:

Constructed of carbon steel, aluminum, and plastic components



### Options/Subcomponent Summary:

| Description   | Part Number                                       |
|---|---|
| Detector:<br>GE FlashPad HD 4343 wireless removable detector  | Model No. 5781717-ENG<br>Serial No. 31825717E2451 |
| X-Ray Grid (Anti-Scatter Grid):<br>130cm by Mitaya Mfg. Co. Ltd.  | GE P/N 46-286129P75                               |
| *Grid holder tray included a supplemental latching mechanism, which is not part of the standard mfd product, to secure grid within tray during test |   |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

UUT20 was base mounted - rigid using four (4) 5/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate.  
 UUT20b used a FlashPad HD 17x17 with out detector tray release latch screws.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|                       |   |                        |
|-----------------------|---|------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                    | <b>UUT 21</b>          |
| <b>Model Line:</b>    | Optima XR646 HD/ Discovery XR656 HD (Definium 656 HD) |                        |
| <b>Model Number:</b>  | Manual Extended Wall (GCMWS-C5) w/ FlashPad HD 14x17  |                        |
| <b>Serial Number:</b> | N/A   |                        |
| <b>Test Report:</b>   |   | SQ12-1812-01 r2 (UUT9) |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 537            | 40.4           | 27.0  | 103.5  | 9.72                          | 9.49      | >33.33   |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |   |
|---|---|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b>   |
| Constructed of carbon steel, aluminum, and plastic components |  |

| Options/Subcomponent Summary:   |   |
|---|---|
| Description   | Part Number                                   |
| Detector:<br>GE FlashPad HD 3543 wireless, removable detector   | Model No. 5771417<br>Serial No. 31736417E1502 |
| X-Ray Grid (Anti-Scatter Grid):<br>120cm by Mitaya Mfg. Co. Ltd.  | GE P/N 46-286129P74                           |
| *Grid holder tray included a supplemental latching mechanism, which is not part of the standard mfd product, to secure grid within tray during test |   |
|   |   |
|   |   |
|   |   |
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|   |   |

UUT21 was base mounted - rigid using four (4) 5/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate.  
 Detector tray included a retention bracket which GE states is part of the standard mfd product, to secure 14x17 detector to the tray during test. Bracket must be removed to exchange detectors and re-installed when 14x17 is used.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |                           |
|-----------------------|--|---------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                                   | <b>UUT 22</b>             |
| <b>Model Line:</b>    | Discovery XR656 HD (Definium 656 HD)                                 |                           |
| <b>Model Number:</b>  | Overhead Tube Suspension (4 meter bridge w/ Tube Support 5135678-10) |                           |
| <b>Serial Number:</b> | N/A  |                           |
| <b>Test Report:</b>   |  | No.B22X80804 Rev.1 (UUT1) |

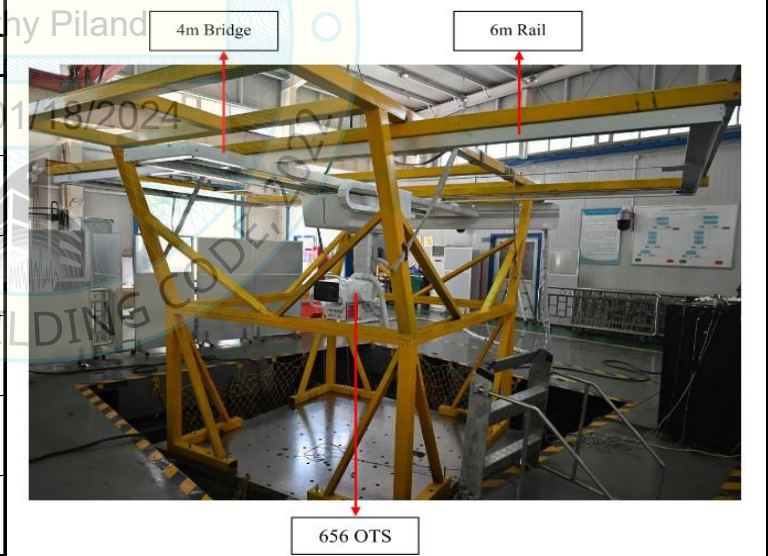
| UUT Properties |                |       |                            |                               |           |          |
|----------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Tested Height <sup>1</sup> | Front-Back                    | Side-Side | Vertical |
| 1,219          | 180.1          | 228.0 | 72.0                       | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

| Options/Subcomponent Summary:                |               |
|--|---------------|
| Description                                  | Part Number   |
| Collimator (AL01C II eL)<br>(GE Healthcare)  | 5730663       |
| Longitudinal Rails (228")<br>(GE Healthcare) | 45-316480G24  |
| OTS 4M Bridge<br>(GE Healthcare)             | 5189123       |
| Tube Support<br>(GE Healthcare)              | 5135678-10    |
| X-Ray Tube<br>(GE Healthcare)                | 46-154400G284 |
|  |               |



**Test Mounting Details:**

<sup>1</sup> Outer height from top of longitudinal rail to the lowest point

Min Height: 41.7"  
Max Height: 112.6"

UUT22 was ceiling mounted - rigid. The 6m Rail and 4m Bridge are connected to the fixture with twenty-four (24) M12 screws. The fixture is connected to the table with sixteen (16) M16 screws. The bridge system was powered on and locked by an electromagnetic brake when testing, same as normal use.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|                       |  |                           |
|-----------------------|--|---------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                   | <b>UUT 23</b>             |
| <b>Model Line:</b>    | Discovery XR656 HD (Definium 656 HD)                 |                           |
| <b>Model Number:</b>  | Radiographic Table (GCTBL-C333) w/ FlashPad HD 17x17 |                           |
| <b>Serial Number:</b> | N/A  |                           |
| <b>Test Report:</b>   |  | No.B22X80804 Rev.1 (UUT2) |

| UUT Properties             |                |       |                            |                               |           |          |
|----------------------------|----------------|-------|----------------------------|-------------------------------|-----------|----------|
| Weight (lbs.) <sup>1</sup> | Dimension (in) |       |                            | Lowest Natural Frequency (Hz) |           |          |
|                            | Depth          | Width | Tested Height <sup>2</sup> | Front-Back                    | Side-Side | Vertical |
| 692                        | 36.7           | 94.5  | 33.5                       | 8.20                          | 2.91      | 3.54     |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components. China Made.

**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description  | Part Number       |
|--|-------------------|
| Detector:<br>GE FlashPad HD 4343 wireless removable detector | Model No. 5771717 |
|  |                   |
|  |                   |
|  |                   |

**Test Mounting Details:**

<sup>1</sup>Weight listed is the Table weight with detector.

706 lbs. simulated patient load present during testing is not included.

<sup>2</sup>Min Height: 19.7"  
Max Height: 33.5"

UUT23 was base mounted - rigid to the fixture using four (4) M12 screws. The fixture is connected to the table using four (4) M16 screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|                       |  |                           |
|-----------------------|--|---------------------------|
| <b>Manufacturer:</b>  | GE Hualun Medical Systems, Co. Ltd                     | <b>UUT 24</b>             |
| <b>Model Line:</b>    | Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |                           |
| <b>Model Number:</b>  | System Cabinet (GCC-C4)                                |                           |
| <b>Serial Number:</b> | N/A  |                           |
| <b>Test Report:</b>   |  | No.B22X80804 Rev.1 (UUT3) |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 459            | 23.6           | 35.4  | 36.7   | 11.00                         | 12.77     | >33.33   |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>P</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |   |
|---|---|
| <b>Product Construction Summary:</b>                          | <b>Test Mounting Details:</b>   |
| Constructed of carbon steel, aluminum, and plastic components |  |

| Options/Subcomponent Summary: |             |
|-------------------------------|-------------|
| Description                   | Part Number |
| N/A                           | N/A         |
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UUT24 was base mounted - rigid to the fixture using six (6) M8 screws. The fixture was connected to the table using four (4) M16 screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET


2200668-CR-001-R4



|   |   |               |
|---|---|---------------|
| <b>Manufacturer:</b> HP   |   | <b>UUT 25</b> |
| <b>Model Line:</b> Optima XR646 HD / Discovery XR656 HD (Definium 656 HD) |   |               |
| <b>Model Number:</b> HP Z4G4 Workstation (8780000-W27)                    |   |               |
| <b>Serial Number:</b> N/A   | <b>Test Report:</b> No.B22X80804 Rev.1 (UUT4) |               |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 23             | 9.6            | 22.6  | 20.1   | 23.50                         | >33.33    | >33.33   |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>P</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

|   |  |
|---|--|
| <b>Product Construction Summary:</b><br>Constructed of carbon steel, aluminum, and plastic components | <b>Test Mounting Details:</b><br> |
|---|--|

| Options/Subcomponent Summary: |             |
|-------------------------------|-------------|
| Description                   | Part Number |
| N/A                           | N/A         |
|                               |             |
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UUT25 was base mounted - rigid to the fixture using four (4) M6 screws. The fixture was connected to the table using four (4) M16 screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



## UUT 26

**Manufacturer:** Aruba Networks, Inc.  
**Model Line:** Discovery XR656 HD (Definium 656 HD)  
**Model Number:** AP Assembly (5845913) w/ Mounting Bracket  
**Serial Number:** N/A

**Test Report:** No.B22X80804 Rev.1 (UUT5)

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 1.3            | 5.5            | 5.5   | 0.8    | N/A                           | N/A       | N/A      |


| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
 Constructed of carbon steel, aluminum, and plastic components

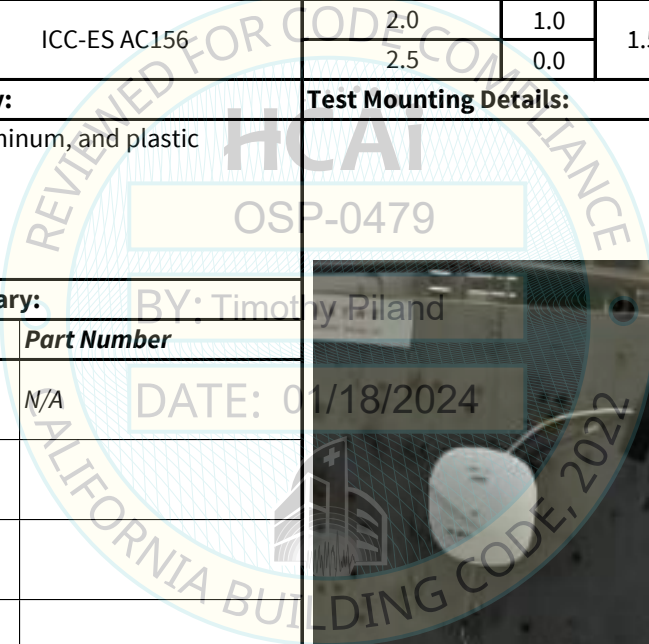
**Test Mounting Details:**

**Options/Subcomponent Summary:**

| Description | Part Number |
|-------------|-------------|
| N/A         | N/A         |
|             |             |
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UUT26 was wall mounted - rigid to the fixture using four (4) M4 screws. The fixture was connected to the table using six (6) M16 screws. Mounting bracket GE (model no. 5855356). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

2200668-CR-001-R4



|  |   |        |
|--|---|--------|
| <b>Manufacturer:</b> GE Hualun Medical Systems, Co. Ltd  |   | UUT 27 |
| <b>Model Line:</b> Discovery XR656 HD (Definium 656 HD)  |   |        |
| <b>Model Number:</b> Tether Interface Box, TIB (5876669) |   |        |
| <b>Serial Number:</b> N/A                                | <b>Test Report:</b> No.B22X80804 Rev.1 (UUT6) |        |

| UUT Properties |                |       |        |                               |           |          |
|----------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.)  | Dimension (in) |       |        | Lowest Natural Frequency (Hz) |           |          |
|                | Depth          | Width | Height | Front-Back                    | Side-Side | Vertical |
| 15             | 5.7            | 10.0  | 12.2   | N/A                           | N/A       | N/A      |

| UUT Highest Passed Seismic Run Information |               |                     |     |                |                        |                        |                        |                        |  |
|--|---------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------------|--|
| Building Code                              | Test Criteria | S <sub>DS</sub> (g) | z/h | I <sub>p</sub> | A <sub>FLX-H</sub> (g) | A <sub>RIG-H</sub> (g) | A <sub>FLX-V</sub> (g) | A <sub>RIG-V</sub> (g) |  |
| CBC 2022                                   | ICC-ES AC156  | 2.0                 | 1.0 | 1.5            | 3.20                   | 2.40                   | 1.67                   | 0.67                   |  |
|  |               | 2.5                 | 0.0 |                |                        |                        |                        |                        |  |

**Product Construction Summary:**  
Constructed of carbon steel, aluminum, and plastic components

**Test Mounting Details:**

**Options/Subcomponent Summary:**  
BY: Timothy Piland  
DATE: 01/18/2024

| Description | Part Number |
|-------------|-------------|
| N/A         | N/A         |
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UUT27 was wall mounted - rigid to the fixture using two (2) M8 screws. The fixture was connected to the table using six (6) M16 screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.