



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0752

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Du Pengfei

Mailing Address: No. 1, Yong Chang North Road, Beijing Ec, Beijing, He 100176

Telephone: (1891) 190-1406 Email: Pengfei.du@gehealthcare.com

Product Information

Product Name: Definium Tempo / Definium Tempo Pro

Product Model Number(s): Varies. See Attachment

Product Category: Fluoroscopy and Radiography Systems

Product Sub-Category: NA

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

Mounting Description: Several - See Certified Product Tables -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 36 SW Wall Street, Bend, OR 97702

Telephone: (541) 241-2310 Email: galen@go-pre.com

Title: Principal & Program Manager





DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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

Company Name: PRE COMPLIANCE
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702
Telephone: (415) 635-8461 Email: Andy@go-pre.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: Ying Deng
Mailing Address: 299 Tengfei Road, Lianchi District, Baoding City Hebei Province 000000
Telephone: (8603) 126-7989 Email: dengying1@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: info@etldallas.com





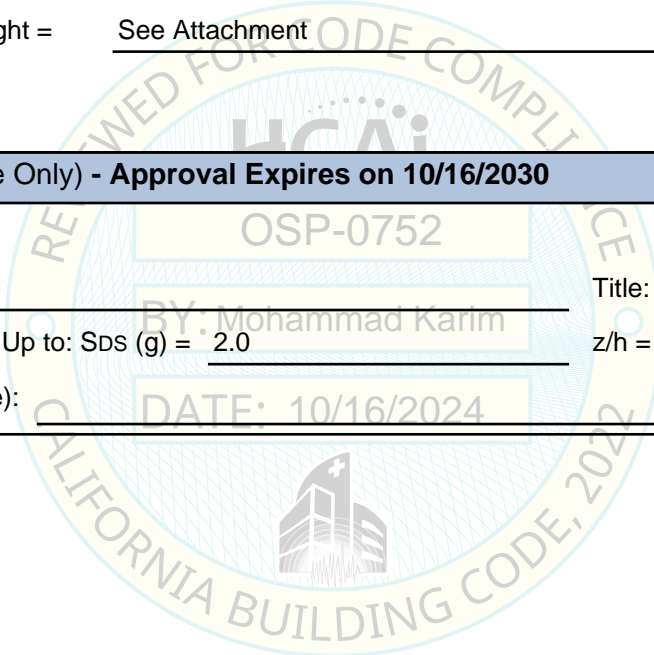
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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	See Attached Table 4
SDS (Design spectral response acceleration at short period, g) =	2.0 @ z/h = 1.0; 2.5@z/h=0
a_p (Amplification factor) =	See Attached Table 4
R_p (Response modification factor) =	See Attached Table 4
Ω_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 10/16/2030

Date:	10/16/2024		
Name:	Mohammad Karim	Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: SDS (g) =	2.0	z/h =	1
Condition of Approval (if applicable):			





SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241454-02-R0

Manufacturer: GE Healthcare
 Product Type: Fluoroscopy and Radiography Systems
 Model Line: Definium Tempo / Definium Tempo Pro

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1$
 $S_{DS} = 2.5g$ for $z/h=0$
 $I_p = 1.5$

Building Codes

CBC 2022

TABLE 1

Mounting Configuration: Ceiling Mounted - Rigid

Construction Summary

Constructed of carbon steel, aluminum, and plastic components

Options Summary

2 or 3 Meter Bridge
 134" to 228" and 12m Longitudinal Rails

Assembly (Components)	Subcomponents	Model Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H ¹		
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	228	41.1 - 104.1	1,065	7
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	472	41.1 - 104.1	1,213	Interp.
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	228	41.1 - 104.1	1,065	Same ⁴
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	472	41.1 - 104.1	1,213	Interp.
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					

Notes: 1. Range of outer height from top of longitudinal rail to lowest point. 2. China made 3. Mexico made 4. 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 COMPONENTS

Pre No. CC241454-02-R0

Manufacturer: GE Healthcare
 Product Type: Fluoroscopy and Radiography Systems
 Model Line: Definium Tempo / Definium Tempo Pro

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1$
 $S_{DS} = 2.5g$ for $z/h=0$
 $I_p = 1.5$

Building Codes

CBC 2022

TABLE 1

Mounting Configuration: Ceiling Mounted - Rigid

Construction Summary

Constructed of carbon steel, aluminum, and plastic components

Options Summary

2 or 3 Meter Bridge
 134" to 228" and 12m Longitudinal Rails

Assembly (Components)	Subcomponents	Model Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H ¹		
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	228	41.1 - 104.1	1,111	8
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	472	41.1 - 104.1	1,259	Interp.
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	228	41.1 - 104.1	1,111	Same ⁴
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	472	41.1 - 104.1	1,259	Interp.
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					

Notes: 1. Range of outer height from top of longitudinal rail to lowest point. 2. China made 3. Mexico made 4. 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 COMPONENTS

Pre No. CC241454-02-R0

Manufacturer: GE Healthcare
 Product Type: Fluoroscopy and Radiography Systems
 Model Line: Definium Tempo / Definium Tempo Pro

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1$
 $S_{DS} = 2.5g$ for $z/h=0$

$I_p = 1.5$

Building Codes

CBC 2022

TABLE 2

Mounting Configuration: Base Mounted - Rigid

Construction Summary

Constructed of carbon steel, aluminum, and plastic components

Options Summary

14x17 or 17x17 FlashPad

Assembly	Subcomponents	Model Number ¹	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H		
Radiographic Table	Table ¹	GCTBL-C4	33.6	93.7	23-35.4	852	9
System Cabinets	System Cabinet	GCC-C4	23.6	35.4	36.7	459	3
	System Cabinet (Mexico)	GCC-C44	23.6	35.4	36.7	459	Same ⁴
Workstations	HP Z4G4 Workstation ³	8780000-W27	9.6	22.6	20.1	23	4
	HP Z4G5 Workstation	8790000-W04	9.6	22.6	20.1	23	10
Wallstands	Motorized Extended	GCEWS-C3	65.7	27.0	103.5	642	1a,1b
	Motorized	GCWS-C3	52.9	27.0	103.5	624	Interp.
	Non-tilting	GCWS-C5	40.4	27.0	108.3	554	Interp.
	Manual	GCMWS-C5	40.1	27.0	103.4	537	2
FlashPad HD (Subcomponents)	FlashPad HD 14x17 ²	5771417	15.0	18.0	0.6	7.2	2
	FlashPad HD 17x17	5771717	18.0	18.0	0.6	8.4	9

Notes:
 1. Table weight does not include the 617 lb. simulated patient load present during testing. 2. Seismically certified units shall have the detector retention bracket present when used with 14x17 detector. 3. Monitor is not included, the monitor is portable. 4. 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. 5. New generation of same HP workstation.



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241454-02-R0

Manufacturer: GE Healthcare
 Product Type: Fluoroscopy and Radiography Systems
 Model Line: Definium Tempo / Definium Tempo Pro

Seismic Parameters

$S_{DS} = 2.0g$ for $z/h=1$
 $S_{DS} = 2.5g$ for $z/h=0$
 $I_p = 1.5$

Building Codes

CBC 2022

TABLE 3

Mounting Configuration: Wall Mounted - Rigid

Construction Summary

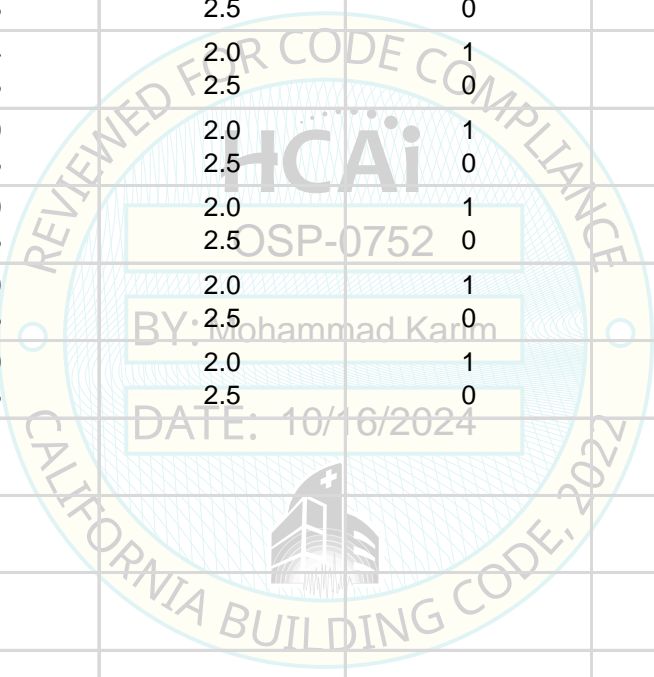
Constructed of carbon steel, aluminum, and plastic components

Options Summary

Assembly	Manufacturer	Model Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H ¹		
AP Assembly	Aruba Networks	5845913	5.5	5.5	0.8	1.3	5
Tether Interface Box (TIB)	GE Hualun Medical Systems, Co. Ltd.	5876669	5.7	10	12.2	15	6
<div style="border: 1px solid gray; padding: 5px; width: fit-content; margin: 10px auto;"> REVIEWED BY: HCAI BY: Mohammad Karim DATE: 10/16/2024 OSP-0752 </div>							

TABLE 4 SEISMIC PARAMETERS

Component	F_p/W_p	S_{DS}	z/h	a_p	R_p
Overhead Tube 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 Cabinets	1.44	2.0	1	1.0	2.5
	1.13	2.5	0		
Workstations	1.50	2.0	1	2.5	6.0
	1.13	2.5	0		
FlashPads	1.50	2.0	1	2.5	6.0
	1.13	2.5	0		
AP Assembly	1.50	2.0	1	2.5	6.0
	1.13	2.5	0		
Tether Interface Box	1.50	2.0	1	2.5	6.0
	1.13	2.5	0		



UUT	Model	Test Report	Test Laboratory	S _{DS}	z/h	I _p
1a	Motorized Extended Wall (GCEWS-C3) w/FlashPad HD 17x17 with Detector Tray (Base mounted - rigid)	SQ12-1812-01 r2 (UUT 8)	Environmental Testing Laboratory (ETL)	2.0 2.5	1.0 0.0	1.5
1b	Motorized Extended Wall (GCEWS-C3) w/FlashPad HD 17x17 without Detector Tray (Base mounted - rigid)	SQ12-1812-01 r2 (UUT 8A)	Environmental Testing Laboratory (ETL)	2.0 2.5	1.0 0.0	1.5
2	Manual Extended Wall (GCMWS-C5) w/FlashPad HD 14x17 (Base Mounted - rigid)	SQ12-1812-01 r2 (UUT 9)	Environmental Testing Laboratory (ETL)	2.0 2.5	1.0 0.0	1.5
3	System Cabinet (GCC-C4) (Base Mounted - rigid)	No. B22X80804 Rev. 1 (UUT 3)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
4	HP Z4G4 Workstation (8780000-W27) (Base Mounted - rigid)	No. B22X80804 Rev. 1 (UUT 4)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
5	AP Assembly (5845913) w/ Mounting Bracket (Wall mounted - rigid)	No. B22X80804 Rev. 1 (UUT 5)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
6	Tether Interface Box, TIB (5876669) (Wall mounted - Rigid)	No. B22X80804 Rev. 1 (UUT 6)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
7	Overhead Tube Suspension (2 meter bridge) (Ceiling mounted - rigid)	No. B22X80805 Rev. 1 (UUT 3)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
8	Overhead Tube Suspension (3 meter bridge) (Ceiling mounted - rigid)	No. B22X80805 Rev. 1 (UUT 1)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
9	Radiographic Table (GCTBL-C4) w/FlashPad HD 17x17 (Base mounted - rigid)	No. B22X80805 Rev. 1 (UUT 2)	China Telecommunication Technology Lab (CTTL)	2.0 2.5	1.0 0.0	1.5
10	HP Z4G5 Workstation (Base Mounted - rigid)	No. 24B02X801692-001 (UUT 1)	CAICT	2.0 2.5	1.0 0.0	1.5

UUT 1a

Test Report# SQ12-1812-01 (UUT8)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
Model Line: Definium Tempo / Definium Tempo Pro
Model Number: Motorized Extended Wall (GCEWS-C3)
w/FlashPad HD 17x17 w/detector tray

Serial Number: Seis Ex WS-01

Highest Passed Test Level						
S_{DS}	z/h	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1	1.5	3.2	2.4	1.67	0.67
2.5	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
65.7	27	103.5	642

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
3.75	8.05	6.97

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



UUT 1 was rigid base mounted using (4) 5/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate.
UUT 1a used a FlashPad HD 17x17 with detector tray release latch screws
Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description	Model #
Detector: GE FlashPad HD wireless removable detector	Model No. 5781717-ENG Serial No. 31825717E2451
X-Ray Grid (Anti-Scatter Grid): 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.	

UUT 1b

Test Report# SQ12-1812-01 (UUT8A)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
Model Line: Definium Tempo / Definium Tempo Pro

Model Number: Motorized Extended Wall (GCEWS-C3)
w/FlashPad HD 17x17 w/out detector
tray

Serial Number: Seis Ex WS-01

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1					
2.5	0	1.5	3.2	2.4	1.67	0.67

Dimensions/Weights				Lowest Natural Frequency (Hz)		
Depth (in)	Width (in)	Height (in)	Weight (lbs.)	Front-Back	Side-Side	Vertical
65.7	27	103.5	642	3.75	8.05	6.97

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #
Detector: GE FlashPad HD wireless removable detector	Model No. 5781717-ENG Serial No. 31825717E2451
X-Ray Grid (Anti-Scatter Grid): 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.	

UUT 1 was rigid base mounted using (4) 5/8" SAE J429 Grade 8 bolts to tapped holes in aluminum plate.
UUT 1b used a FlashPad HD 17x17 without detector tray release latch screws.
Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 2

Test Report# SQ12-1812-01 (UUT9)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
 Model Line: Definium Tempo / Definium Tempo Pro
 Model Number: Manual Extended Wall (GCMWS-C5)
 w/FlashPad HD 14x17

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1		3.2	2.4	1.67	0.67
2.5	0	1.5				

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
40.4	27	103.5	537

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.72	9.49	>33.3

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



UUT was rigid base mounted using (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 operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description	Model #
Detector: GE FlashPad HD 3543 wireless removable detector	Model No. 5771417 Serial No. 31736417E1502
X-Ray Grid (Anti-Scatter Grid): 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.	

UUT 3

Test Report# B22X80804 Rev.1 (UUT3)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
 Model Line: Definium Tempo / Definium Tempo Pro
 Model Number: System Cabinet (GCC-C4)

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1					
2.5	0	1.5	3.2	2.4	1.67	0.67

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
23.6	35.4	36.7	459

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
11	12.77	>33.3

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Mohammad Karim	N/A
N/A	N/A

UUT was rigid base mounted to the fixture using (6) M8 screws. The fixture is connected to the table using (4) M16 screws. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 4

Test Report# B22X80804 Rev.1 (UUT4)

Manufacturer: HP
 Model Line: Definium Tempo / Definium Tempo Pro
 Model Number: HP Z4G4 Workstation (8780000-W27)

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1		3.2	2.4	1.67	0.67
2.5	0	1.5				

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
9.6	22.6	20.1	23

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
23.5	>33.3	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #
Mohammad Karim	
N/A	N/A

UUT was rigid base mounted to the fixture using (4) M6 screws. The fixture is connected to the table using (4) M16 screws.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 5

Test Report# B22X80804 Rev.1 (UUT5)

Manufacturer: Aruba Networks, Inc.
Model Line: Definium Tempo / Definium Tempo Pro
Model Number: AP Assembly (5845913) w/mounting bracket

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1	1.5	3.2	2.4	1.67	0.67
2.5	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5.5	5.5	0.8	1.3

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



UUT was rigid wall mounted to the fixture using (4) M4 screws. The fixture is connected to the table using (6) M16 screws. Mounting bracket (GE model no. 5855356). Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description	Model #
N/A	N/A

UUT 6

Test Report# B22X80804 Rev.1 (UUT6)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
 Model Line: Definium Tempo / Definium Tempo Pro
 Model Number: Tether Interface box, TIB (5876669)

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1	1.5	3.2	2.4	1.67	0.67
2.5	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
5.7	10	12.2	15

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



UUT was rigid wall mounted to the fixture using (2) M8 screws. The fixture is connected to the table using (6) M16 screws.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description	Model #
N/A	N/A

UUT 7

Test Report# B22X80805 Rev.1 (UUT3)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
Model Line: Definium Tempo/Definium Tempo Pro
Model Number: Overhead Tube Suspension (2 meter bridge)

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1					
2.5	0	1.5	3.2	2.4	1.67	0.67

Dimensions/Weights			
Depth (in)	Width (in)	Height (in) ¹	Weight (lbs.)
90.9	228	72.0	1,065

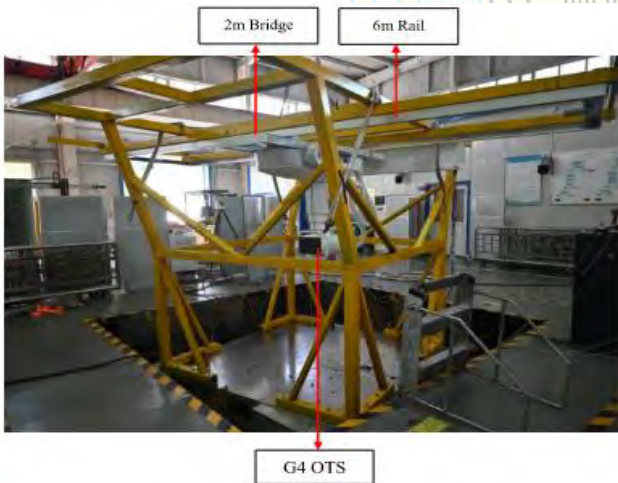
Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Collimator (AL01C II eL) (GE Healthcare)	5730663
G4 OTS	5822306
Longitudinal Rails (228") (GE Healthcare)	46-316480G24
OTS 2M Bridge (GE Healthcare)	5823488
Tube Support (GE Healthcare)	5822306
X-Ray Tube (GE Healthcare)	46-I54400G284

UUT was rigid ceiling mounted. The 6m rail and 2m bridge are connected to the fixture with (24) M12 screws. The fixture is connected to the table with (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 operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹Outer height from top of longitudinal rail to the lowest point:

UUT 8

Test Report# B22X80805 Rev.1 (UUT1)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
 Model Line: Definium Tempo/Definium Tempo Pro
 Model Number: Overhead Tube Suspension (3 meter bridge)

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1					
2.5	0	1.5	3.2	2.4	1.67	0.67

Dimensions/Weights			
Depth (in)	Width (in)	Height (in) ¹	Weight (lbs.)
128.9	228	72.0	1,111

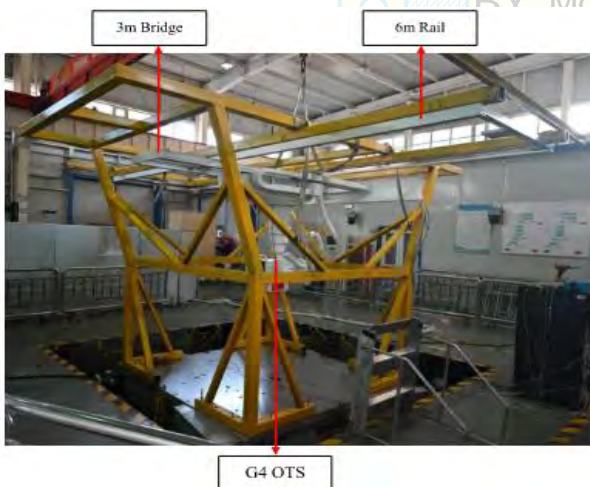
Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
N/A	N/A	N/A

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Collimator (AL01C II eL) (GE Healthcare)	5730663
Longitudinal Rails (228") (GE Healthcare)	46-316480G24
OTS 3M Bridge (GE Healthcare)	5823489
Tube Support (GE Healthcare)	5822306
X-Ray Tube (GE Healthcare)	46-I54400G284

UUT was rigid ceiling mounted. The 6m rail and 3m bridge are connected to the fixture with (24) M12 screws. The fixture is connected to the table with (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 operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹ Outer height from top of longitudinal rail to the lowest point:	
Min Height: 41.1"	
Max Height: 104.1"	

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 10

Test Report# 24B02X801692 (UUT1)

Manufacturer: HP
Model Line: Definium Tempo / Definium Tempo Pro
Product Name: HP Z4G5 Workstation
Model Number: 8790000-W04

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1	1.5	3.2	2.4	1.67	0.67
2.5	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
9.6	22.6	20.1	23

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
26.56	15.23	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #
N/A	N/A

UUT is connected to seismic bracket frame by belt. The seismic bracket frame is connected to fixture by (4) M6 bolts. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.