



**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-0614**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Philips Medical Systems DMC GmbH

Manufacturer's Technical Representative: Ming Xiao

Mailing Address: Roentgenstrasse 24, Hamburg, N/ 22335

Telephone: (49403) 497-1230 Email: Ming.Xiao@Philips.com

**Product Information**

Product Name: DigitalDiagnost

Product Model Number(s): See attachment

Product Category: Fluoroscopy and Radiography Systems

Product Sub-Category: NA

General Description: Multiple component digital radiography and fluoroscopy medical diagnostic imaging system.

Mounting Description: Several - 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: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Mailing Address: 1199 Shoreline Drive Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: President





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

Company Name: W.E. GUNDY & ASSOCIATES INC.  
 Name: Travis Soppe California License Number: S6115  
 Mailing Address: P.O. Box 9121, Boise, ID 83707  
 Telephone: (208) 342-5989 Email: tsoppe@wegai.com

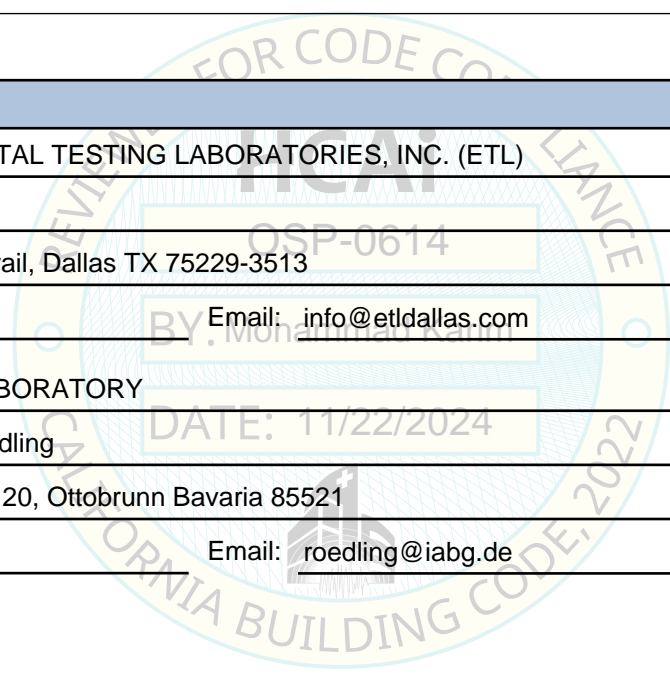
**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

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

Company Name: IABG TEST LABORATORY  
 Contact Person: Dr. Steffen Roedling  
 Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521  
 Telephone: (49896) 088-2052 Email: roedling@iabg.de





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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = See Attachments

SDS (Design spectral response acceleration at short period, g) = 2.00, z/h = 1.0 and 2.50, z/h = 0

$a_p$  (Amplification factor) = Multiple, see attachment

$R_p$  (Response modification factor) = Multiple, see attachment

$\Omega_0$  (System overstrength factor) = See Attachment

$I_p$  (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

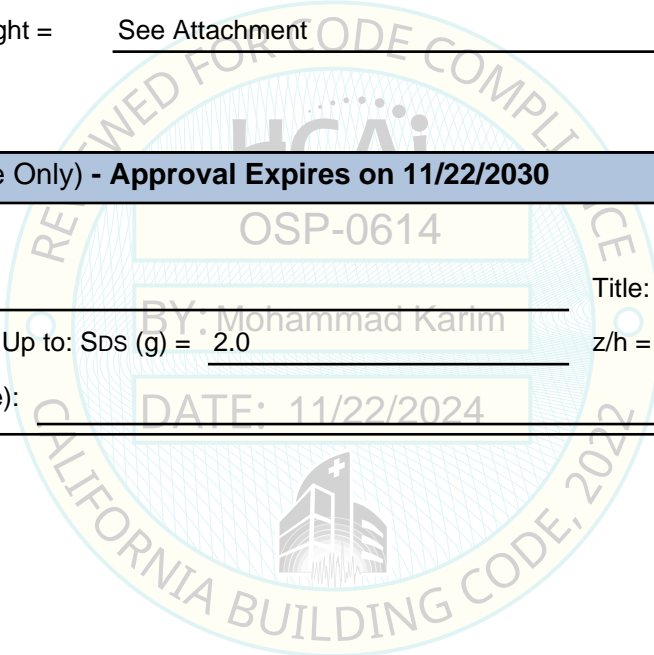
**HCAI Approval (For Office Use Only) - Approval Expires on 11/22/2030**

Date: 11/22/2024

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): DATE: 11/22/2024



<b>Table 1</b>	<b>PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS</b>					 <b>WEGAI</b> <small>W. E. GUNDY &amp; ASSOCIATES, INC. STRUCTURAL &amp; EARTHQUAKE ENGINEERING</small>	
	<b>System:</b> DigitalDiagnost Radiography System			<b>Manufacturer:</b> Philips Medical Systems DMC GmbH			

System Component <sup>1</sup>	Philips Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT <sup>4</sup>
		Width	Length	Height			
<b>Ceiling Suspension CSM Product Family</b>							
Ceiling Suspension CSM3 (Short) Version: Comfort Move (2D)	9890-010-87703	31.0	92.8	45.5-110.7	532	ceiling	UUT <sub>w</sub> -2
Ceiling Suspension CSM3 (Short) Version: Comfort Move (2D / 3D)	9890-010-87703	31.0	92.8	45.5-110.7	532	ceiling	Interpolated
Ceiling Suspension CSM3 (Long) Version: Comfort Move (2D)	9890-010-87703	31.0	159.0	45.5-110.7	577	ceiling	UUT <sub>w</sub> -1
Ceiling Suspension CSM3 (Long) Version: Comfort Move (2D / 3D)	9890-010-87703	31.0	159.0	45.5-110.7	577	ceiling	Interpolated
Ceiling Suspension CSM3 (Short) Version: Comfort Position (2D / 3D)	9890-010-87703	31.0	92.8	45.5-110.7	577	ceiling	Interpolated
Ceiling Suspension CSM3 (Long) Version: Comfort Position (2D / 3D)	9890-010-87703	31.0	159.0	45.5-110.7	622	ceiling	Interpolated
Ceiling Suspension CSM3 (Long) Version: Comfort Position (3D)	9890-010-87703	31.0	159.0	45.5-110.7	622	ceiling	UUT <sub>v</sub> -1

<b>Digital Table TH Product Family</b>							
Table TH2 Wifi Detector	9848-600-02222	33.5	94.5	20.8-36.4	612 <sup>2</sup>	floor	UUT <sub>y</sub> -1
Table TH2 Fixed Detector	9848-600-02222	33.5	94.5	20.8-36.4	615 <sup>2</sup>	floor	UUT <sub>y</sub> -2
Table TH2 Wifi Detector	9848-600-02222	33.5	94.5	20.8-36.4	603 <sup>2</sup>	floor	UUT <sub>w</sub> -3

<sup>1</sup> All components are manufactured by Philips Medical Systems DMC GmbH unless noted in ( ). The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

<sup>2</sup> Table TH2 weights listed do not include 560lb UUT<sub>y</sub>-1/2 and 660lb UUT<sub>w</sub>-3 simulated patient weight used during the seismic tests.

<sup>3</sup> The "a" designation indicates differences in color and software for the identified access point configuration.

<sup>4</sup> The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:  
v = TA-B-005165-V3 / w = TAB3-PB-19-020-V1 / x = TAF4-PB-18-082-V1 / y = SQ13-1703-01 / z = SQ13-1701-01

<b>SEISMIC CERTIFICATION LIMITS</b>								
System Component	Code	S <sub>DS</sub> (g)	z / h	I <sub>p</sub>	a <sub>p</sub>	R <sub>p</sub>	Ω <sub>0</sub>	F <sub>p</sub> / W <sub>p</sub>
Ceiling Suspension CSM	CBC 2022	2.0	1.0	1.50	2.5	2.5	2.0	3.60
		2.5	0					1.50
Digital Table TH	CBC 2022	2.0	1.0	1.50	1.0	1.5	1.5	2.40
		2.5	0					1.13

<b>Table 1</b>	<b>PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS</b>					 <b>WEGAI</b> <small>W. E. GUNDY &amp; ASSOCIATES, INC. STRUCTURAL &amp; EARTHQUAKE ENGINEERING</small>			
	<b>System:</b> DigitalDiagnost Radiography System					<b>Manufacturer:</b> Philips Medical Systems DMC GmbH			

System Component <sup>1</sup>	Philips Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT <sup>4</sup>
		Width	Length	Height			

**Vertical Stand VS Product Family**

Vertical Stand 2 VS2 Non-Tilting - Fixed Detector	9897-010-01411	28.3	60.6	82.7	326	floor/wall	UUT <sub>x</sub> -2A
Vertical Stand 2 VS2 Non-Tilting - Wifi Detector	9897-010-01411	28.3	60.6	82.7	326	floor/wall	UUT <sub>x</sub> -2B
Vertical Stand 2 VS2 Tilting - Fixed Detector	9897-010-01411	23.5	35.5	81.9	562	floor/wall	interpolated
Vertical Stand 2 VS2 Tilting - Wifi Detector	9897-010-01411	23.5	35.5	81.9	562	floor/wall	UUT <sub>z</sub> -8

**Power Distribution**

M-Cabinet CXA	9890-010-88393	19.2	27.6	39.0	236	floor	UUT <sub>y</sub> -4
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**User Interface and Miscellaneous**

AWS-2X PC (ADVANTECH)	4512-201-11781	8.5	10.9	17.6	33	floor	UUT <sub>w</sub> -4
WIFI Access Point (ARUBA)	4512 201 12191	5.9	5.9	2.8	1	wall	UUT <sub>x</sub> -4
WIFI Access Point (ARUBA)	4512 201 1219a <sup>3</sup> 4512 201 1220a <sup>3</sup>	5.9	5.9	2.8	1	wall	same

<sup>1</sup> All components are manufactured by Philips Medical Systems DMC GmbH unless noted in ( ). The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

<sup>2</sup> Table TH2 weights listed do not include 560lb UUT<sub>y</sub>-1/2 and 660lb UUT<sub>w</sub>-3 simulated patient weight used during the seismic tests.

<sup>3</sup> The "a" designation indicates differences in color and software for the identified access point configuration.

<sup>4</sup> The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:  
v = TA-B-005165-V3 / w = TAB3-PB-19-020-V1 / x = TAF4-PB-18-082-V1 / y = SQ13-1703-01 / z = SQ13-1701-01

**SEISMIC CERTIFICATION LIMITS**

System Component	Code	S <sub>DS</sub> (g)	z / h	I <sub>P</sub>	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	F <sub>P</sub> / W <sub>P</sub>
Vertical Stand VS	CBC 2022	2.0	1.0	1.50	1.0	1.5	1.5	2.40
		2.5	0					1.13
M-Cabinet CXA	CBC 2022	2.0	1.0	1.50	2.5	6.0	2.0	1.50
		2.5	0					1.13
AWS-2X PC	CBC 2022	2.0	1.0	1.50	1.0	2.5	2.0	1.44
		2.5	0					1.13
WIFI Access Point	CBC 2022	2.0	1.0	1.50	1.0	2.5	2.0	1.44
		2.5	0					1.13

<b>Table 2</b>	<b>PHILIPS MEDICAL SYSTEMS DMC GmbH</b> <b>SPECIAL SEISMIC CERTIFICATION</b> <b>CERTIFIED SUBCOMPONENTS</b>	 <b>WEGAI</b> <small>W.E. GUNDY &amp; ASSOCIATES, INC.</small> <small>STRUCTURAL &amp; EARTHQUAKE ENGINEERING</small>
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<b>System:</b> DigitalDiagnost Radiography System	<b>Manufacturer:</b> Philips Medical Systems DMC GmbH
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Subcomponent	Philips Part Number <sup>1</sup>	Dimensions (in)			Weight (lb)	UUT <sup>2</sup>
		Width	Length	Height		

Vertical Stand VS Subcomponent Matrix

Portable Detector Skyplate Small (pixium 2430 EZ)	9897 010 00843	9.5	1.2	1.0	4	UUT <sub>x</sub> -2B
	9897 010 0084a	9.5	1.2	1.0	4	interpolated
	4598 013 7483a	9.5	1.2	1.0	4	interpolated
	4512 134 7330a	9.5	1.2	1.0	4	interpolated
Portable Detector Skyplate Large (pixium 3543 EZ)	4598 012 4298a	13.8	16.9	1.0	7	interpolated
	4512 134 7214a	13.8	16.9	1.0	7	interpolated
	9897 010 0083a	13.8	16.9	1.0	7	interpolated
	9897 010 0268a	13.8	16.9	1.0	7	interpolated
	9897 010 02681	13.8	16.9	1.0	7	UUT <sub>z</sub> -8
Fixed Detector (pixium 4343RCE)	4598 009 40141	20.0	19.4	2.0	44	UUT <sub>x</sub> -2A
	4598 009 4014a	20.0	19.4	2.0	44	same
	4598 009 4015a	20.0	19.4	2.0	44	same

Digital Table TH / ProxiDiagnost Stand Subcomponent Matrix

Portable Detector Skyplate Large (pixium 3543 EZ)	4598-012-42982	13.8	16.9	1.0	7	UUT <sub>w</sub> -3
	4598-012-4298a	13.8	16.9	1.0	7	interpolated
	4598-134-7214a	13.8	16.9	1.0	7	interpolated
	9897 010 0268a	13.8	16.9	1.0	7	interpolated
	9897 010 02681	13.8	16.9	1.0	7	UUT <sub>y</sub> -1
Fixed Detector (pixium 4343RCE)	4598-009-40141	20.0	19.4	2.0	44	UUT <sub>y</sub> -2
	4598-009-4014a	20.0	19.4	2.0	44	same
	4598-009-4015a	20.0	19.4	2.0	44	same

<sup>1</sup> "a" designation in Philips part number indicates differences in color, software, ect. for the identified subcomponent.

<sup>2</sup> The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:  
w = TAB3-PB-19-020-V1      x = TAF4-PB-18-082-V1      y = SQ13-1703-01      z = SQ13-1701-01

UUT<sub>v</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rails and connecting parts of the system bolt to the unistrut grid at 27" on center with 2-M10 bolts torqued at 60ft-lbs at each location for a total of 24 bolts. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Ceiling Suspension CSM3 (Long) Version: Comfort Position (3D)

**Model / Serial Number:** 9890-010-87703 / 2486104

**UUT Function:** Digital system for making X-ray exposures of the body.

**UUT Description:** DigitalDiagnost ceiling suspension system - long rail configuration

**Test Location:** IABG mbH, Germany      **Test Date:** July 2024      **Report:** TA-B-005165-V3

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
622	31.0"	159.0"	71.9"	NA	NA	NA

The CS system moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with an extension of 26.4" making the tested height = 71.9".

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>w</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rails and connecting parts of the system bolt to the unistrut grid at 25.6" on center with 2-M10 bolts torqued at 30ft-lbs at each location for a total of 24 bolts. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Ceiling Suspension CSM3 (Long) Version: Comfort Move

**Model / Serial Number:** 9890-010-87703 / 19 000005

**UUT Function:** Digital system for making X-ray exposures of the body.

**UUT Description:** DigitalDiagnost ceiling suspension system - long rail configuration

**Test Location:** IABG mbH, Germany      **Test Date:** February 2019      **Report:** TAB3-PB-19-020-V1

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
577	31.0"	159.0"	45.5" - 110.7"	NA	NA	NA

The CS system moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with an extension of 26.4" making the tested height = 71.9".

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

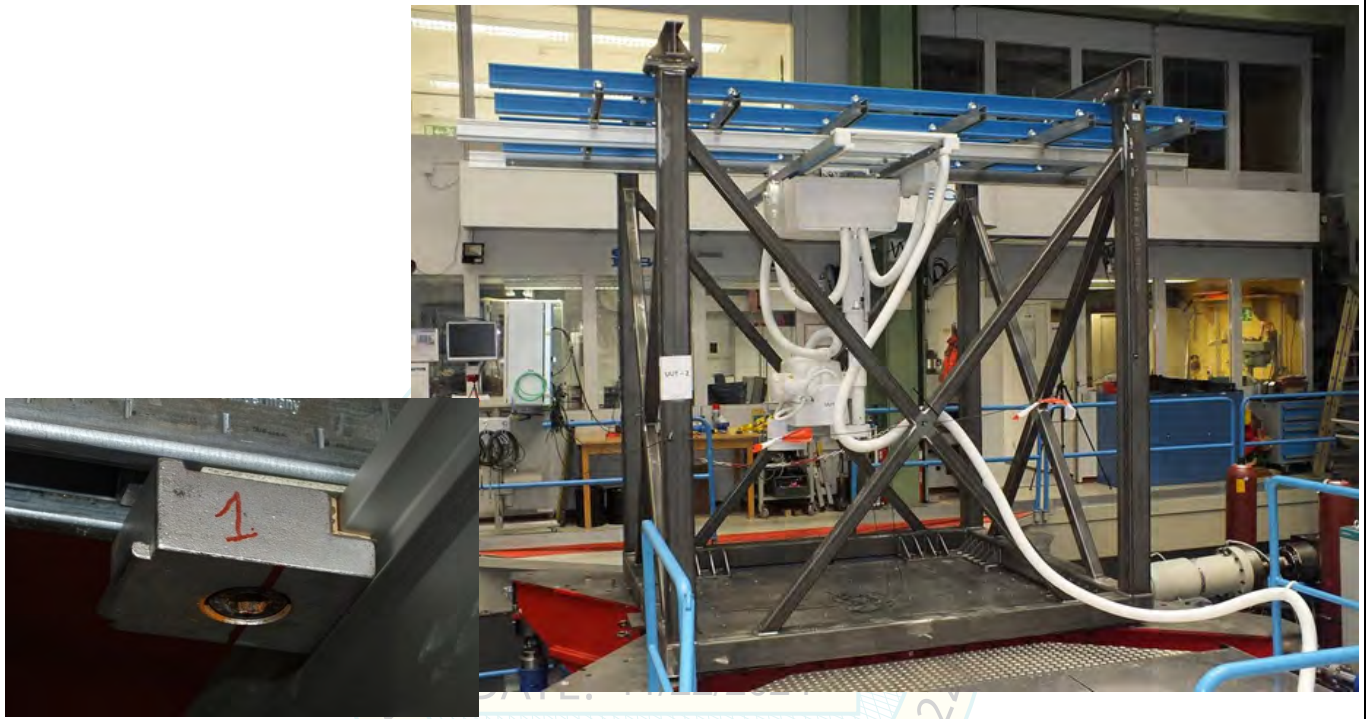


UUT<sub>w</sub>-2

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rails and connecting parts of the system bolt to the unistrut grid at 25.6" on center with 2-M10 bolts torqued at 30ft-lbs at each location for a total of 24 bolts. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Ceiling Suspension CSM3 (Short) Version: Comfort Move

**Model / Serial Number:** 9890-010-87703 / 19 000001

**UUT Function:** Digital system for making X-ray exposures of the body.

**UUT Description:** DigitalDiagnost ceiling suspension system - short rail configuration

**Test Location:** IABG mbH, Germany    **Test Date:** February 2019    **Report:** TAB3-PB-19-020-V1

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
532	31.0"	92.8"	45.5" - 110.7"	NA	NA	NA

The CS system moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with an extension of 26.4" making the tested height = 71.9".

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

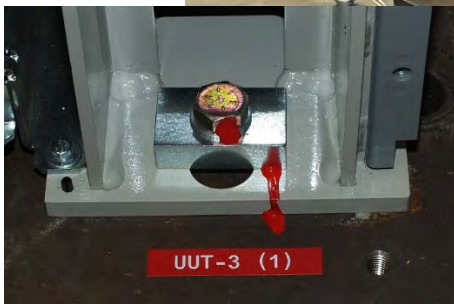
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>w</sub>-3

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mounted with 4 - 1/2" grade 8 bolts torqued to 110ft-lbs with 2 x 1 x 0.625" plate washers.



DATE: 11/22/2024

**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Table TH2 - Wifi Detector | **Model / Serial Number:** 9848-600-02222 / 19020008

**UUT Function:** Motorized patient table and detector system used for X-Ray imaging.

**UUT Description:** DigitalDiagnost patient table with installed detector: Wifi Pixium 3543 EZ - 4598-012-42982

**Test Location:** IABG mbH, Germany | **Test Date:** February 2019 | **Report:** TAB3-PB-19-020-V1

**UUT PROPERTIES**

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,263	33.5"	94.5"	20.8 - 36.4"	4.0	3.0	7.3

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 29.3", and a total simulated patient weight of 660lbs.

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

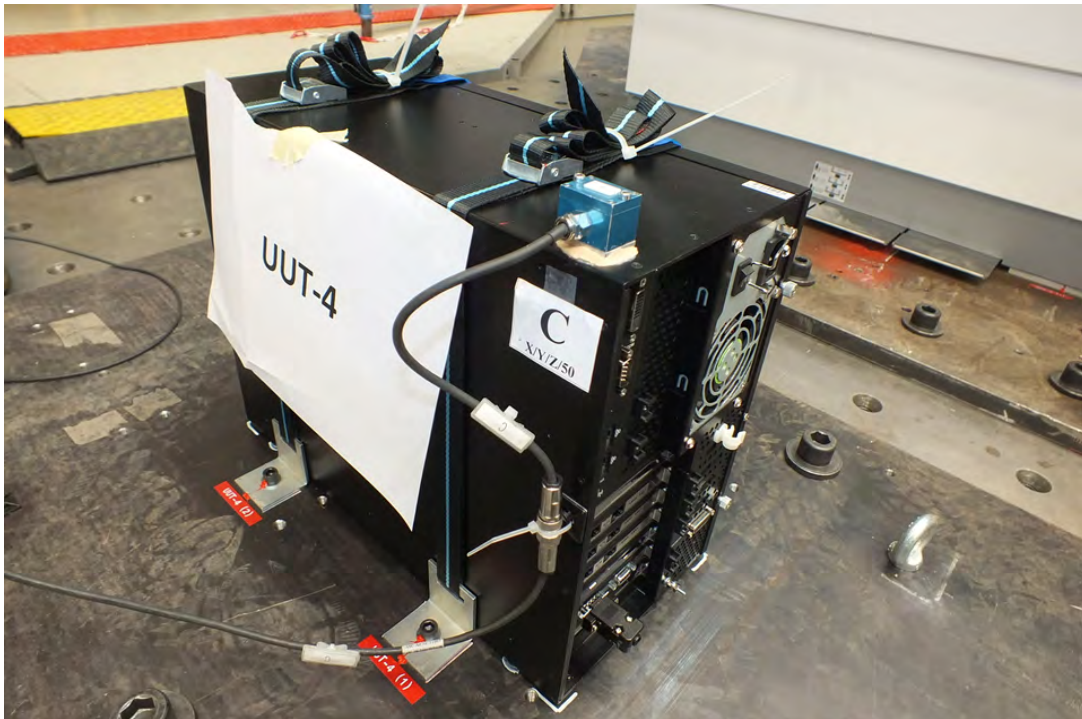
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>w</sub>-4

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mounting using Phillips provided seismic restraint kit 4512-134-74741. Seismic restraint kit include a hand tightend cam buckle strap (450lb WLL) looped thru angle brackets on each side of the unit. The angle brackets are attached to the table with individual 3/8" grade 8 bolts.



**Manufacturer:** ADVANTECH

**Component:** AWS-2X PC User Interface **Model / Serial Number:** 4512-201-11781 / KSE0149757

**UUT Function:** Computational processing for image system.

**UUT Description:** DigitalDiagnost user interface PC

**Test Location:** IABG mbH, Germany **Test Date:** February 2019 **Report:** TAB3-PB-19-020-V1

**UUT PROPERTIES**

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
33	8.5"	10.9"	17.6"	> 33	28.1	>33

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>x</sub>-2A

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Floor/wall mount with 2 - M10 grade 8.8 bolts / washers torqued at 36ft-lb and 1 - M12 grade 8.8 bolt / washer torqued at 62ft-lb to the floor and 2 - M10 grade 10.9 bolts / washers torqued at 53ft-lb to the wall fixture. Electrical box mounted to wall fixture with 4 - M6 grade 8.8 bolts / washer torqued to 10ft-lb.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Vertical Stand VS2 - Fixed Detector

**Model / Serial Number:** 9897 010 01411

**UUT Function:** Vertical X-Ray imaging system

**UUT Description:** Component of DigitalDiagnost Radiography and Fluoroscopy System with fixed detector (Pixium TX4343RCE - 4598 009 40141) and electrical box (4598-012-06871).

**Test Location:** IABG mbH, Germany

**Test Date:** February 2018

**Report:** TAF4-PB-18-082-V1

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
326	28.3"	60.6"	82.7"	> 33	28.9	> 33

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>x</sub>-2B

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Floor/wall mount with 2 - M10 grade 8.8 bolts / washers torqued at 36ft-lb and 1 - M12 grade 8.8 bolt / washer torqued at 62ft-lb to the floor and 2 - M10 grade 10.9 bolts / washers torqued at 53ft-lb to the wall fixture. Electrical box mounted to wall fixture with 4 - M6 grade 8.8 bolts / washer torqued to 10ft-lb.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Vertical Stand VS2 - Wifi Detector

**Model / Serial Number:** 9897 010 01411

**UUT Function:** Vertical X-Ray imaging system

**UUT Description:** Component of DigitalDiagnost Radiography and Fluoroscopy System with wifi detector (Pixium 2430EZ - 9897 010 00843) and electrical box (4598-012-06871).

**Test Location:** IABG mbH, Germany

**Test Date:** February 2018

**Report:** TAF4-PB-18-082-V1

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
326	28.3"	60.6"	82.7"	> 33	29.0	> 33

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>x</sub>-4

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Wall mount with 4 - size 3 wood screws.



**Manufacturer:** ARUBA

**Component:** WIFI Access Point

**Model / Serial Number:** 4512 201 12191

**UUT Function:** WIFI Module

**UUT Description:** Component of ProxiDiagnost Radiography and Fluoroscopy System

**Test Location:** IABG mbH, Germany

**Test Date:** February 2018

**Report:** TAF4-PB-18-082-V1

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1	5.9"	5.9"	2.8"	NA	NA	NA

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

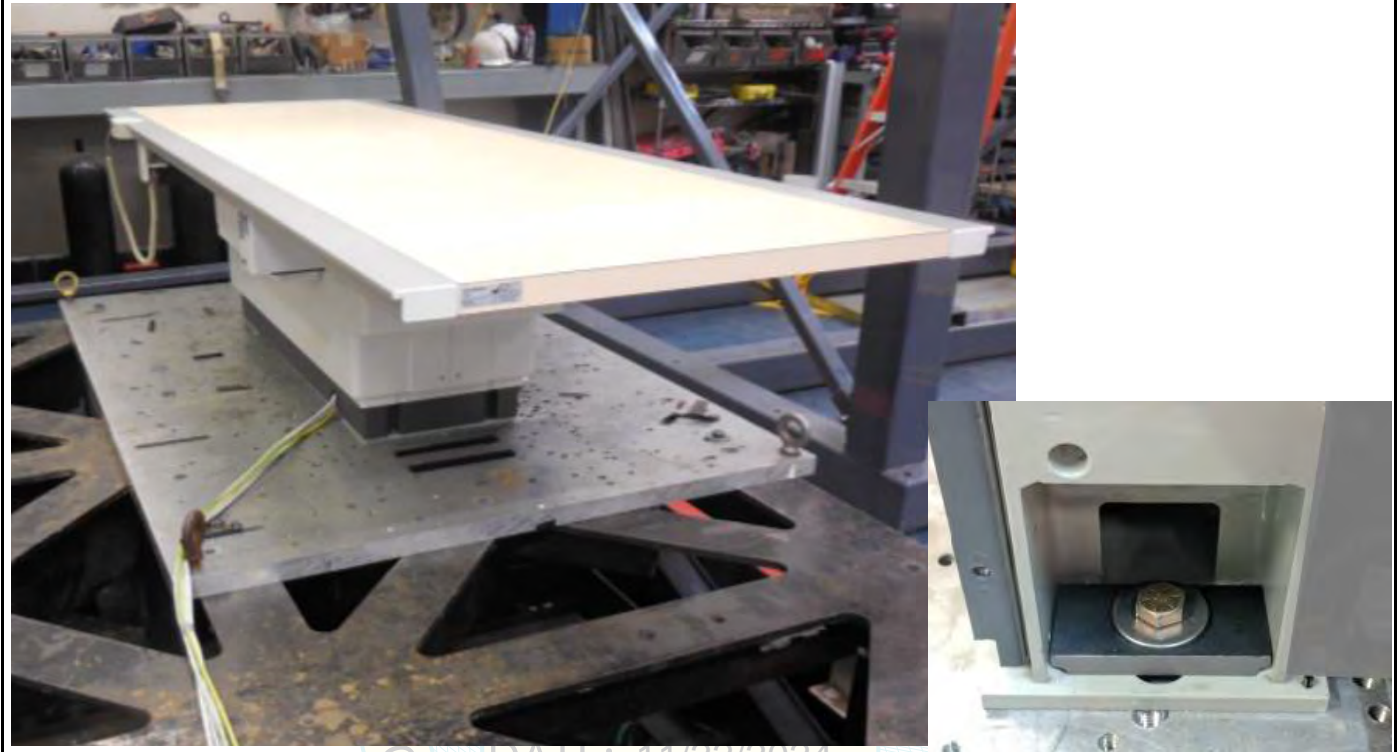
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>y</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mounted with 4 - 1/2" grade 8 bolts torqued at 40ft-lb with 3.5" x 1.5" x 1/2" plate washers.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Table TH2 - Wifi Detector | **Model / Serial Number:** 9848-600-02222 / 16000193

**UUT Function:** Motorized patient table and detector system used for X-Ray imaging.

**UUT Description:** DigitalDiagnost patient table with installed detector: Wifi Pixium 3543 EZ - 9897-010-02681.

**Test Location:** Environmental Testing Laboratory, Dallas, Texas

**Test Date:** January 2017

**Report:** SQ13-1703-01

**UUT PROPERTIES**

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,172	33.5"	94.5"	20.8 - 36.4"	3.7	20.4	7.2

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 30", and a total simulated patient weight of 560lbs.

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>y</sub>-2

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mounted with 4 - 1/2" grade 8 bolts torqued at 40ft-lb with 3.5" x 1.5" x 1/2" plate washers.



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Table TH2 - Fixed Detector | **Model / Serial Number:** 9848-600-02222 / 16020429

**UUT Function:** Motorized patient table and detector system used for X-Ray imaging.

**UUT Description:** DigitalDiagnost patient table with fixed detector: Pixium 4343RCE 4598-009-40141

**Test Location:** Environmental Testing Laboratory, Dallas, Texas

**Test Date:** January 2017 | **Report:** SQ13-1703-01

**UUT PROPERTIES**

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,175	33.5"	94.5"	20.8 - 36.4"	3.2	12	7.2

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 30", and a total simulated patient weight of 560lbs.

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

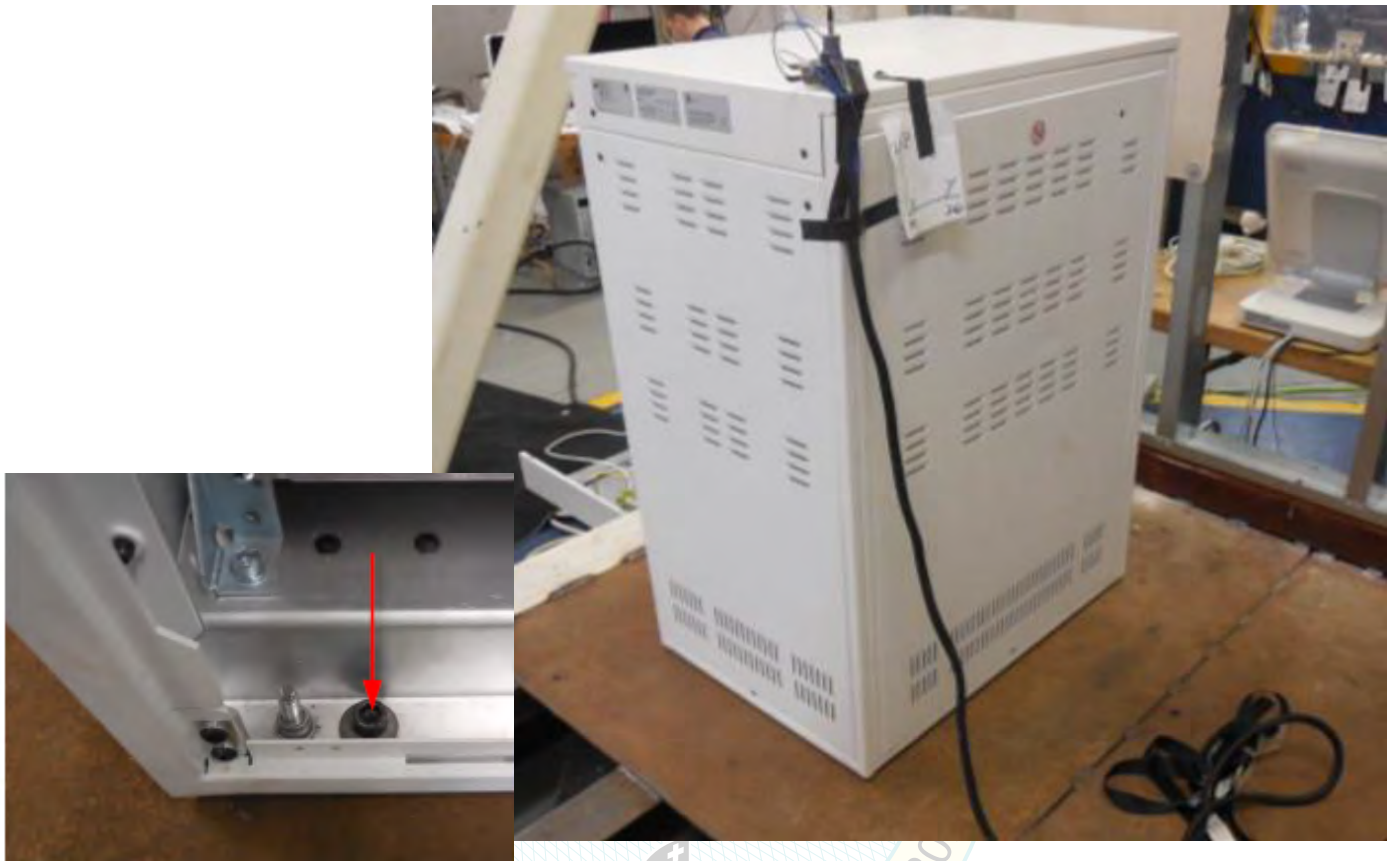


UUT<sub>y</sub>-4

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Mounting Details:** Rigid floor mounted with 4 - 3/8" A574 bolts with washers



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** M-Cabinet CXA

**Model / Serial Number:** 9890-010-88393 / 16230001

**UUT Function:** X-Ray generator for Radiography System

**UUT Description:** Component of DigitalDiagnost Radiography and Fluoroscopy System

**Test Location:** Environmental Testing Laboratory, Dallas, Texas

**Test Date:** January 2017

**Report:** SQ13-1703-01

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
236	19.2"	27.6"	39"	10.8	9.0	23.2

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

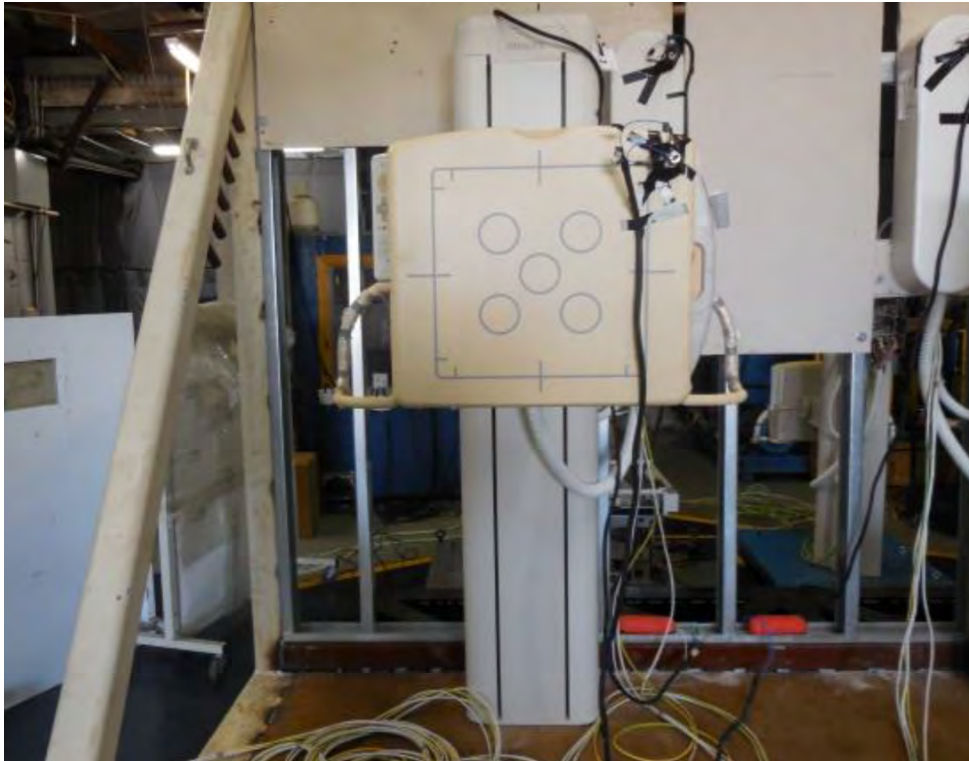
UUT<sub>z-8</sub>

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



**Note:** Modifications required for unit to pass seismic test. All modifications incorporated in Phillips seismic kit 4512-201-12241.

**Mounting Details:** Rigid floor / wall mounted with 3 - 1/2" grade 5 bolts torqued at 40ft-lbs to the floor and 4 - 3/8" grade 2 bolts torqued at 17ft-lbs to 16 ga. steel backing plate on the wall



**Manufacturer:** Philips Medical Systems DMC GmbH

**Component:** Vertical Stand 2 VS2 - Wifi Detector      **Model / Serial Number:** 9897-010-01411 / 16000012

**UUT Function:** Vertical X-Ray imaging system.

**UUT Description:** Component of DigitalDiagnost Radiography and Fluoroscopy System with wifi detector (Pixium 3543EZ - 9897 010 02681) and electrical box (4598-012-06641).

**Test Location:** Environmental Testing Laboratory, Dallas, Texas

**Test Date:** January 2017

**Report:** SQ13-1701-01

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
562	23.5"	35.5"	81.9"	10.2	4.2	6.1

**SEISMIC TEST PARAMETERS**

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	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.