

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0319 **HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: Shimadzu Medical Systems Manufacturer's Technical Representative: Jim Mekker / Akiharu Yamagata Mailing Address: 25101 Chagrin Blvd. Suite 240, Beachwood, OH 44122 Telephone: (310) 217-8855 Email: mekker@shimadzu-usa.com **Product Information** Product Name: Fluoroscopy and Radiography Systems Product Type: NA Product Model Number: Sonialvision G4 and RADspeed Multiple component digital radiography and fluoroscopy medical diagnostic imaging system. General Description: Mounting Description: Rigid, See Certified Product Tables Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: anomalies during the tests shall be incorporated into the production units. **Applicant Information** Applicant Company Name: W.E. GUNDY & ASOCIATES INC Contact Person: Travis Soppe

Email: tsoppe@wegai.com





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

Telephone: (208) 342-5989

Title: President

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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

•
California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES 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
Other (Please Specify):
EOR CODE CO
Testing Laboratory
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Brady Richard
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DATE: 03/16/2023







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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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Design Basis of Equipment or Components (Fp/Wp) = See Attachments

SDS (Design spectral response acceleration at short period, g) = 2.0 at z/h = 1 and 2.6 at z/h = 0

ap (Amplification factor) = See attachments

Rp (Response modification factor) = See attachments

 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 03/16/2029

Date: 3/16/2023 OSP-0319

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sps (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE 03/16/2023





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SHIMADZU MEDICAL SYSTEMS SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Shimadzu Medical Systems

System: RADSPEED X-Ray and Fluoroscopy System

	Shimadzu	Dir	nensions	(in)	Weight	Mounting	UUT^2				
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting	UUI				
Wall Stands											
BR 120 Wall Stand Wireless Digital Detector	503-61800-13	24.8	14.4	84.8	264	wall/floor	UUT _y -8				
BR 120 Wall Stand Wireless Digital Detector	566-16500-42	24.8	14.4	84.8	264	wall/floor	same ⁵				
BR 120 Wall Stand Flat Panel Detector	503-61800-13	24.8	14.4	84.8	264	wall/floor	interpolated				
BR120 Wall Stand Fixed Panel Detector	503-61800-13	24.8	D[4.4	84.8	264	wall/floor	UUT _y -21				
BR 120 Wall Stand Wireless Digital Detector	503-77185-35	26.4	14.4	85.3	283	wall/floor	interpolated				
BR 120 Wall Stand Fixed Panel Detector	503-77185-35	26.4	0314.4	85.3	283	wall/floor	UUT _z -5				
		Patien	t Table		•						
BK-200 Table Wireless Digital Detector	503-61750-02	Mohamr 31.9	nad Kar 92.5	33.5	720 ³	floor	UUT _y -13				
BK-200 Table Wireless Digital Detector	563-61750-81	E ₃₁ .93/	16/2.323	33.5	720 ³	floor	same ⁵				
	C	eiling Mo	unted Tu	ibe	7/						
CH-200 Ceiling Tube Transverse Bridge	503-58100-27	216.5	129.9	112.2	740	ceiling	UUT _y -6				

¹ All components are manufactured by Shimadzu Medical Systems. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

⁵ Components identified as "same" are of identical construction to the tested UUT with the same name and differ only in color / sofware

SEISMIC CERTIFICATION LIMITS											
System Component	Code	$S_{DS}(g)$	z / h	I_P	$\mathbf{a}_{\mathbf{P}}$	R_{P}	Ω_0	$\mathbf{F_P}$ / $\mathbf{W_P}$			
Wall Stands	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40			
wan Stanus	2022	2.6	0	1.30		1.5	2.0	1.17			
Patient Table	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40			
ratient Table	2022	2.6	0	1.30	1.0		2.0	1.17			
Cailing Mountad Tuba	CBC	2.0	1.0	1.50	2.5	2.5	2.0	3.60			
Ceiling Mounted Tube	2022	2.6	0	1.30	2.3	2.5	2.0	1.56			

² The units were tested at different times and the subscripts on the UUT reference the following seismic test reports: y = SQ10-1205-01 z = SQ10-1503-01

³ Table weight listed does not include 350lb simulated patient weight included during the horizontal position tests.

⁴ Monitor Ceiling Suspension weight listed does not included the additional 30lbs mass attached to each monitor for simulation of varied monitor configurations.

SHIMADZU MEDICAL SYSTEMS SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Shimadzu Medical Systems

System: RADSPEED X-Ray and Fluoroscopy System

G , G , 1	Shimadzu	Dir	nensions	(in)	Weight	M 4'	XXXX2				
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting	\mathbf{UUT}^2				
	Monitor Ceiling Suspension										
Flat Panel Monitor Suspension	ID10000F-2WOR	38.0	80.0	68.0	294 ⁴	ceiling	UUT _y -5				
	Cor	ntrol / Po	wer Cabi	inets							
BK-200 Control Cabinet	503-04403A	19.7	15.8	20.1	98	floor	UUT _y -14				
CH-200 / BR-120 Control Cabinet	503-04427D	15.8	19.7	20.1	110	floor	UUT _y -25				
CH-200 / BR-120 Control Cabinet	572-18677-02	15.8	19.7	120,1	110	floor	same ⁵				
80kW High Voltage Generator UD150B-40	502-23375-01	27.6	15.9	71.1	435	wall/floor	UUT _y -30				
80kW High Voltage Generator UD150B-40	562-23375-79	OSP- 27.6	0319 15.9	71.1	435	wall/floor	same ⁵				
	O BY:	PC / User	Interfac	ien	0						
UD150B-40 X-Ray Control Console	502-23588 AT	12.1 E: 03/	16/2023	13.6	9	wall	UUT _y -10A				
UD150B-40 X-Ray Control Console	502-23588	12.1	8.3	13.6	9	floor	UUT _y -10B				
Side Station Computer	502-24407-13	7.8	19.6	16.8	28	floor	UUT _y -22				
Canon CXDI-NE Workstation	CXDI-NE PC	B4.8LI	118.8	16.5	28	floor	UUT _y -24				

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SEISMIC CERTIFICATION LIMITS											
System Component	Code	$S_{DS}(g)$	z / h	I_P	$\mathbf{a}_{\mathbf{P}}$	R_{P}	Ω_0	$\mathbf{F_P}$ / $\mathbf{W_P}$			
Monitor Ceiling	CBC	2.0	1.0	1.50	2.5	2.5	2.0	3.60			
Suspension	2022	2.6	0	1.50	2.3	2.3	2.0	1.56			
Control / Power Cabinets	CBC	2.0	1.0	1.50	2.5	6.0	2.0	1.50			
Control / Power Cabinets	2022	2.6	0	1.30	2.3	0.0	2.0	1.17			
PC / User Interface	CBC	2.0	1.0	1.50	2.5	6.0	2.0	1.50			
rc/ Oser Interface	2022	2.6	0	1.50	2.5	0.0	2.0	1.17			

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³ Table weight listed does not include 350lb simulated patient weight included during the horizontal position tests.

⁴ Monitor Ceiling Suspension weight listed does not included the additional 30lbs mass attached to each monitor for simulation of varied monitor configurations.

SHIMADZU MEDICAL SYSTEMS SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Shimadzu Medical Systems

System: SONIALVISION G4 X-Ray and Fluoroscopy System

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S4 C	Shimadzu	Dir	nensions	(in)	Weight	Mounting	UUT^2				
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting	UUI				
		Wall	Stands								
BR 120 Wall Stand Wireless Digital Detector	503-61800-13	24.8	14.4	84.8	264	wall/floor	UUT _y -8				
BR 120 Wall Stand Wireless Digital Detector	566-16500-42	24.8	14.4	84.8	264	wall/floor	same ⁵				
BR 120 Wall Stand Flat Panel Detector	503-61800-13	24.8	14.4	84.8	264	wall/floor	interpolated				
BR 120 Wall Stand Wireless Digital Detector	503-77185-35	P26.4	D[4.4]	85.3	283	wall/floor	interpolated				
BR 120 Wall Stand Fixed Panel Detector	503-77185-35	26.4	14.4	85.3	283	wall/floor	UUT _z -5				
		Patien	t Table								
ZS-200 Elevating Table Horizontal Position	503-78001	76.0	92.5	96.0	3485 ³	floor	UUT _z -1A				
ZS-200 Elevating Table Vertical Position	503-78001	/lohamn 76.0	nad Kari 92.5	96.0	3485 ³	floor	UUT _z -1B				
ZS-200 Elevating Table	563-78001-02	E: _{76.0} 3/	16/2023	96.0	3485 ³	floor	same ⁵				
	Monitor Ceiling Suspension										
Flat Panel Monitor Suspension	ID10000F-2WOR	38.0	80.0	68.0	294 ⁴	ceiling	UUT _y -5				

¹ All components are manufactured by Shimadzu Medical Systems. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

⁵ Components identified as "same" are of identical construction to the tested UUT with the same name and differ only in color / sofware

SEISMIC CERTIFICATION LIMITS											
System Component $Code$ $S_{DS}(g)$ z/h I_P a_P R_P Ω_0 F_P/W_P											
Wall Stands	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40			
wan Stanus	2022	2.6	0	1.50		1.3	2.0	1.17			
Patient Table	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40			
ratient rable	2022	2.6	0	1.30	1.0	1.3	2.0	1.17			
Monitor Ceiling	CBC	2.0	1.0	1.50	2.5	2.5	2.0	3.60			
Suspension	2022	2.6	0	1.30	2.5			1.56			

² The units were tested at different times and the subscripts on the UUT reference the following seismic test reports: y = SQ10-1205-01 z = SQ10-1503-01

³ Table weight listed does not include 400lb simulated patient weight included during the horizontal position tests.

⁴ Monitor Ceiling Suspension weight listed does not included the additional 30lbs mass attached to each monitor for simulation of varied monitor configurations.

SHIMADZU MEDICAL SYSTEMS SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Shimadzu Medical Systems

System: SONIALVISION G4 X-Ray and Fluoroscopy System

1	Shimadzu	Dir	nensions	(in)	Weight		2
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting	\mathbf{UUT}^2
	Wifi Acc	ess Point					
Hewlett Packard WAP	J9650A	6.6	2.8	8.0	2	wall	UUT _z -13
]	PC / User	Interfac	e	•		
LCD Touch Screen Konica	ROM950AIII	17.0	5.3	13.8	21	wall	UUT _z -15
LCD Screen DR-300	SMD19102- SC6GF6211-2EH51	15.6	4.6	13.6	19	wall	UUT _z -16
Konica Aero X-Ray Interface	AreoDR Interface Unit2	7.0	18.0	111.3	29	floor	UUT _z -14
Side Station Computer	502-24407-13	7.8	19.6	16.8	28	floor	UUT _y -22
UD150B-40 X-Ray Control Console	502-23588	O ₁ S.P-0	0319	13.6	9	wall	UUT _y -10A
UD150B-40 X-Ray Control Console	502-23588	/oh <u>a</u> mn	na& <u>l</u> 3ari	m _{13.6}	<u> </u>	floor	UUT _y -10B
Konica Aero Workstation	TPC-F046-SF	E:403/	1614.923	3 13.3	16	floor	UUT _z -9
DR-300 Image Processing	562-29102	6.3	18.7	23.0	71	floor	UUT _z -7
ZS-200 Control Console Remote	563-78007-02	21.6	12.3	2.3	24	floor	UUT _z -6

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SEISMIC CERTIFICATION LIMITS											
System Component	Code	$S_{DS}(g)$	z / h	I_P	a _P	R_{P}	Ω_0	$\mathbf{F_P}$ / $\mathbf{W_P}$			
Wifi Access Point	CBC	2.0	1.0	1.50	1.0	2.5	2.0	1.44			
WIII Access Pollit	2022	2.6	0	1.30		2.3		1.17			
PC / User Interface	CBC	2.0	1.0	1.50	2.5	6.0	2.0	1.50			
	2022	2.6	0	1.30	2.5			1.17			

² The units were tested at different times and the subscripts on the UUT reference the following seismic test reports: y = SQ10-1205-01 z = SQ10-1503-01

³ Table weight listed does not include 400lb simulated patient weight included during the horizontal position tests.

SHIMADZU MEDICAL SYSTEMS SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



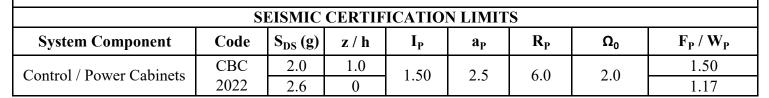
Manufacturer: Shimadzu Medical Systems

System: SONIALVISION G4 X-Ray and Fluoroscopy System

S4 C	Shimadzu	Dir	nensions	(in)	Weight	Mounting	UUT^2	
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting	UUI	
	Cor	itrol / Po	wer Cabi	nets				
CH-200 / BR-120 Control Cabinet	503-04427D	15.8	19.7	20.1	110	floor	UUT _y -25	
ZS-200 Cabinet	502-29300-02	27.5	19.7	72.6	569	wall/floor	UUT _z -2	
ZS-200 Cabinet	562-29300-12	27.5	19.7	72.6	569	wall/floor	same ⁵	
X-Ray High Voltage Cabinet	562-29200-02	27.50	D19.7	72.6	606	wall/floor	UUT _z -3	
X-Ray High Voltage Cabinet	562-29200-12	27.5	19.7	72.6	606	wall/floor	same ⁵	
DR-300 Digital Cabinet	562-29101	27.5	19.7	72.6	654	wall/floor	UUT _z -4	
DR-300 Digital Cabinet	562-29101-01	27.5	19.7	72.6	654	wall/floor	same ⁵	

¹ All components are manufactured by Shimadzu Medical Systems. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

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The units were tested at different times and the subscripts on the UUT reference the following seismic test reports: y = SQ10-1205-01 z = SQ10-1503-01

³ Table weight listed does not include 400lb simulated patient weight included during the horizontal position tests.

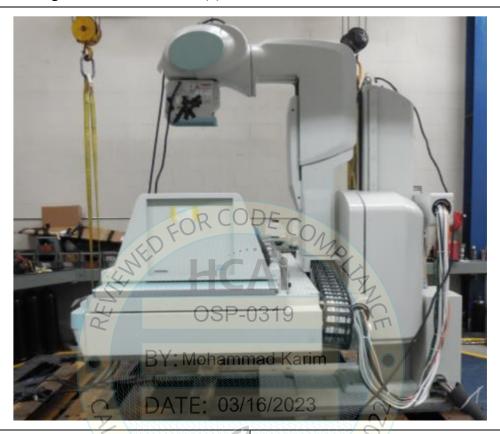
⁵ Components identified as "same" are of identical construction to the tested UUT with the same name and differ only in color / sofware

UUTz-1A

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 3/4" diameter bolts.



Manufacturer: Shimadzu Medical Systems | Test Location: ETL (Dallas, TX)

Component: ZS-200 Elevating Table Test Date: October 2015

Model Number: 503-78001 Report Number: SQ10-1503-1 REV 1

UUT Function: Patient table with integrated x-ray system. Tested in horizontal position

Component of the SONIALVISION G4 X-Ray and Flouroscopy system, includes

UUT Description: seismic option kits SV-G4.

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	Natural Frequency (Hz)			
with Patient	Width	Depth	Height	FB	SS	V
3,885	76.0	92.5	96	4.0	3.4	4.1

The patient table moves horizontally and vertically to accommodate different patients and procedures. The system was tested in the normal horizontal operating position with total simulated patient weight of 400lbs.

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-1B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 3/4" diameter bolts.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: ZS-200 Elevating Table Test Date: October 2015

Model Number: 503-78001 Report Number: SQ10-1503-1 REV 1

UUT Function: Patient table with integrated x-ray system. Tested in vertical position

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system, includes

seismic option kits SV-G4.

UUT PROPERTIES

Waight (1h)	Di	mensions (inch	Natural Frequency (Hz)			
Weight (lb) Width Depth		Height	FB	SS	V	
3,485	76.0	92.5	96	4.4	4.4	5.1

The patient table moves horizontally and vertically to accommodate different patients and procedures. The system was tested in the normal vertical operating position.

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Combined rigid wall mounted with (2) ½" diameter bolts and rigid floor mounted with (4) ½" diameter bolts.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: ZS-200 Cabinet Test Date: October 2015

Model Number: 502-29300-02 **Report Number:** SQ10-1503-1 REV 1

UUT Function: Power distribution to ZS-200 Table

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
weight (10)	Width Depth H		Height	FB	SS	V	
569	27.5	19.7	72.6	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Combined rigid wall mounted with (2) ½" diameter bolts and rigid floor mounted with (4) ½" diameter bolts.



Manufacturer: Shimadzu Medical Systems | Test Location: ETL (Dallas, TX)

Component: X-Ray High Voltage Cabinet Test Date: October 2015

Model Number: 562-29200-02 **Report Number:** SQ10-1503-1 REV 1

UUT Function: X-ray high voltage generator cabinet

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V	
606	27.5	19.7	72.6	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUT_z-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Combined rigid wall mounted with (2) ½" diameter bolts and rigid floor mounted with (4) ½" diameter bolts.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: DR-300 Digital Cabinet Test Date: October 2015

Model Number: 562-29101 Report Number: SQ10-1503-1 REV 1

UUT Function: Electrical cabinet

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width Depth		Height	FB	SS	V	
654	27.5	19.7	72.6	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Combined rigid wall mounted with (2) ½" diameter bolts and rigid floor mounted with (4) 3/8" diameter bolts.



Manufacturer: Shimadzu Medical Systems

BR-120 Wall Stand

Fixed Panel Detector

Model Number: 503-77185-35

Component:

Test Location: ETL (Dallas, TX)

Test Date: October 2015

Report Number: SQ10-1503-1 REV 1

UUT Function: Radiographic wall stand for X-ray exposures

UUT Description: Component of the RADSPEED and SONIALVISION G4 X-Ray and Flouroscopy

system. Tested with Konica Aero XE Flat Panel Detector

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	Natural Frequency (Hz)			
weight (10)	Width Depth		Height	FB	SS	V
283	14.4	26.4	85.3	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-6

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid base mounted with (6) 1/4" machine screws.



Component: ZS-200 Control Console Remote Test Date: October 2015

Model Number: 563-78007-02 **Report Number:** SQ10-1503-1 REV 1

UUT Function: Control console remote for X-ray system

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	Natural Frequency (Hz)			
Weight (lb)	Width Depth I		Height	FB	SS	V
24	21.6	12.3	2.3	> 33.0	>33.0	32.3

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_P	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UUT_z-7

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 3/8" diameter bolts.



Manufacturer: Shimadzu Medical Systems

Test Location: ETL (Dallas, TX)

Component: DR-300 Image Processing PC

Test Date: October 2015

Model Number: 562-29102

Report Number: SQ10-1503-1 REV 1

UUT Function: Imaging system PC

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V	
71	6.3	18.7	23.0	>33.0	17.9	> 33.0	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-9

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (2) 1" wide hand-tightened nylon cam buckle straps (200lb WLL) through slots in (4) L2.5x2.5x1/4" x 2.5" long brackets. Angle brackets anchored with (1) 3/8" diameter bolt each.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: Konica Aero Workstation Test Date: October 2015

Model Number: TPC-F046-SF **Report Number:** SQ10-1503-1 REV 1

UUT Function: Imaging System PC

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	s) Natural Frequency (Hz)				
weight (10)	Width Depth		Height	FB	SS	V		
16	4.0	14.9	13.3	>33.0	>33.0	> 33.0		

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	$A_{RIG-V}(g)$
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UUT_z-13

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (3) #10 machine screws



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: Hewlett Packard WAP Test Date: October 2015

Model Number: J9650A Report Number: SQ10-1503-1 REV 1

UUT Function: Wireless access point

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
weight (10)	Width	Depth	Height	FB	SS	V	
2	6.6	2.8	8.0	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

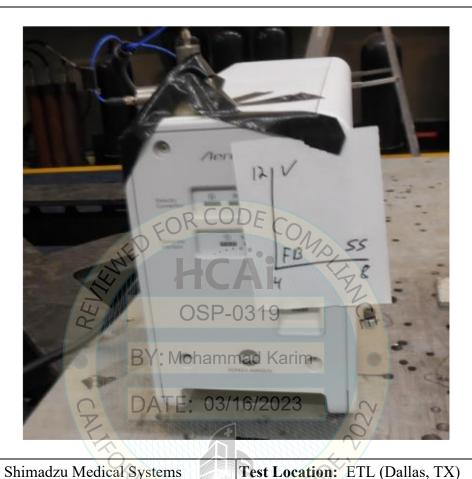
Building Code / Test Criteria	S _{DS} (g)	z / h	I_P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UUTz-14

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (2) 3/8" diameter bolts



Manufacturer: Shimadzu Medical Systems

Component: Konica AERO X-Ray Interface

Model Number: AeroDR Interface Unit2

Report Number: SQ10-1503-1 REV 1

Test Date: October 2015

UUT Function: X-ray interface

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system.

UUT PROPERTIES

Waight (1h)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width Depth		Height	FB	SS	V	
29	7.0	18.0	11.3	12.0	14.3	11.5	

SEISMIC TEST PARAMETERS

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)
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

 UUT_z-15

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) #10 machine screws



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: LCD Touch Screen - Konica Test Date: October 2015

Model Number: ROM950AIII REV 1

UUT Function: Wall mounted display for x-ray system

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	Natural Frequency (Hz)			
weight (10)	Width Depth		Height	FB	SS	V
21	17.0	5.3	13.8	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S _{DS} (g)	z / h	I_P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	$A_{RIG-V}(g)$
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UUT_z-16

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) #10 machine screws



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: LCD Screen - DR-300 Test Date: October 2015

Model Number: SMD19102-SC6GF6211-2CH51 Report Number: SQ10-1503-1 REV 1

UUT Function: Wall mounted display for x-ray system

UUT Description: Component of the SONIALVISION G4 X-Ray and Flouroscopy system

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	Natural Frequency (Hz)			
weight (10)	Width Depth		Height	FB	SS	V
19	15.6	4.6	13.6	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

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)
CDC 2022 / ICC EG A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the component bolt with $2 - \frac{1}{2}$ " bolts (20 bolts total) to a Unistrut grid spaced at approximately 22" on center. The Unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at approximately 24" on center.



Manufacturer: Shimadzu Medical Systems

Component: Flat Panel Monitor Suspension

Model Number: ID1000F-2WOR

Test Location: ETL (Dallas, TX)

Test Date: October 2012

Report Number: SQ10-1205-01

UUT Function: Suspension of monitors used for medical equipment

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

*Waight (1h)	Di	mensions (inch	es)	Natural Frequency (Hz)			
*Weight (lb)	Width	Depth	Height	FB	SS	V	
294	38.0	80.0	68.0	N/A	N/A	N/A	

*Weight listed does not include additional 30lb masses attached to each monitor for simulation of varied monitor configurations.

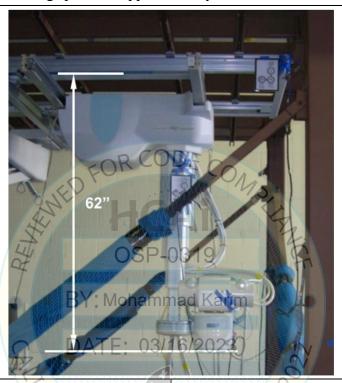
SEISMIC TEST PARAMETERS

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)
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the component bolt with $2 - \frac{1}{2}$ " bolts (20 bolts total) to a Unistrut grid spaced at approximately 22" on center. The Unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at approximately 24" on center.



Manufacturer: Shimadzu Medical Systems **Test Location:** ETL (Dallas, TX)

CH-200 Ceiling Tube Test Date: October 2012 **Component:** Transverse Bridge

Model Number: 503-58100-27 Report Number: SQ10-1205-01

UUT Function: Ceiling suspended X-ray tube for use in radiographic imaging

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Weight (lb)	Di	imensions (inch	es)	Natural Frequency (Hz)		
Weight (lb)	Width	Depth	Height	FB	SS	V
740	216.5	129.9	112.2	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_P	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UUT_y-8

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Combined rigid wall mounted with (2) 3/8" diameter bolts and rigid floor mounted with (4) 3/8" diameter bolts



Manufacturer: Shimadzu Medical Systems | Test Location: VETL (Dallas, TX)

Component: BR-120 Wall Stand - Wireless Detector | Test Date: October 2012

Model Number: 503-61800-13 **Report Number:** SQ10-1205-01

UUT Function: Radiographic wall stand for X-ray exposures

Component of the RADSPEED and SONIALVISION G4 X-Ray and Flouroscopy

UUT Description: system, includes seismic option kit SMK1059. Tested with Canon CXDI-70C Wireless

Digital Detector.

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)		
weight (10)	Width	Depth	Height	FB	SS	V
264	24.8	14.4	84.8	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC130	2.60	0.0	1.5			1.74	0.70

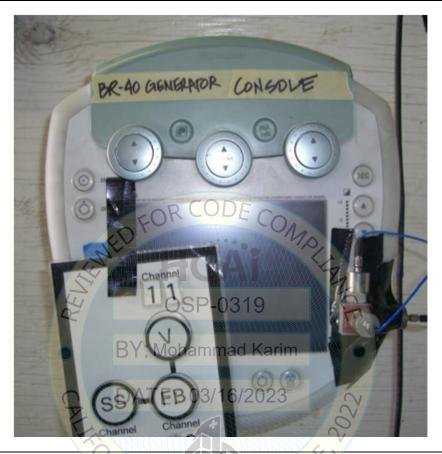
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test. Seismic enhancements made to the test unit shall be incorporated into the production units.

UUTy-10A

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (6) #10 hex bolts



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: UD150B-40 X-Ray Control Console | Test Date: October 2012

Model Number: 502-23588 Report Number: SQ10-1205-01

UUT Function: Generator controls

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)		
weight (10)	Width	Depth	Height	FB	SS	V
9	12.1	8.3	13.6	N/A	N/A	N/A

SEISMIC TEST PARAMETERS

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)
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UUTy-10B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid base mounted with (2) 1/4" diameter hex bolts





DATE: 03/16/2023

Manufacturer: Shimadzu Medical Systems

Medical Systems | Test Location: ETL (Dallas, TX)

Component: UD150B-40 X-Ray Control Console

Test Date: October 2012

Model Number: 502-23588

Report Number: SQ10-1205-01

UUT Function: Generator controls

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	Width	Depth	
9	12.1	8.3	13.6	19.2	18.9	16.2	

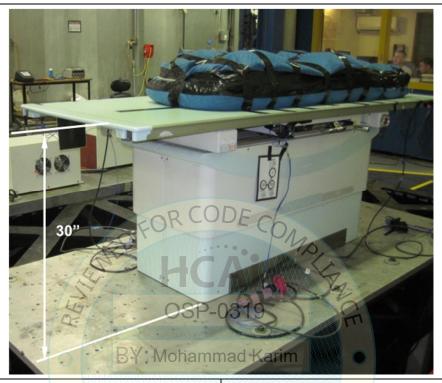
SEISMIC TEST PARAMETERS

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)
CDC 2022 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) ½" diameter bolts



Manufacturer: Shimadzu Medical Systems

Test Location: ETL (Dallas, TX)

Component: BK-200 Table – Wireless Detector

less Detector Test Date: October 2012

Model Number: 503-61750-02

Report Number: SQ10-1205-01

UUT Function: Motorized patient table for support and positioning for image acquisition

UUT Description:

Component of the RADSPEED X-Ray and Flouroscopy System, includes seismic

option kit SMK1059. Tested with Canon CDXI-70C Wireless Digital Detector.

UUT PROPERTIES

Weight (lb)	Di	mensions (inche	es)	Natural Frequency (Hz)		
with Patient	Width	Depth	Height	FB	SS	V
1,070	31.9	92.5	33.5	>33.0	4.5	9.6

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a vertical height of 30" and a total simulated patient weight of 350lbs.

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

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. Seismic enhancements made to the test unit shall be incorporated into the production units.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 2 - 11 gauge bent steel plates (12" x 2") on both sides of the UUT anchored to the floor with (4) ½" diameter bolts and connected to the UUT with 2" wide industrial Velcro tape at the top of the 12" leg.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: BK-200 Control Cabinet Test Date: October 2012

Model Number: 503-04403A Report Number: SQ10-1205-01

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Waight (1h)	Di	mensions (inch	Natural Frequency (Hz)			
Weight (lb) Wid	Width	Depth	Height	FB	SS	V
98	19.7	15.8	20.1	>33.0	8.5	> 33.0

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (2) 3/8" diameter bolts and rigid floor mounted with (4) 3/8" diameter bolts



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: BR-120 Wall Stand
Fixed Panel Detector

Test Date: October 2012

Model Number: 503-61800-13 **Report Number:** SQ10-1205-01

UUT Function: Radiographic wall stand for X-ray exposures

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System. Tested with Canon CXDI-70C Wireless Digital Detector.

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V	
264	24.8	14.4	84.8	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 2 - 11 gauge bent steel plates (12" x 2") on both sides of the UUT anchored to the floor with (4) 3/8" diameter bolts and connected to the UUT with 2" wide industrial Velcro tape at the top of the 12" leg.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: Side Station Computer Test Date: October 2012

Model Number: 502-24407-13 **Report Number:** SQ10-1205-01

UUT Function: PC for radiography system

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

	Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
		Width	Depth	Height	FB	SS	V	
	28	7.8	19.6	16.8	19.0	8.2	>33.0	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 2 - 11 gauge bent steel plates (12" x 2") on both sides of the UUT anchored to the floor with (4) 3/8" diameter bolts and connected to the UUT with

2" wide industrial Velcro tape at the top of the 12" leg.



Manufacturer: Shimadzu Medical Systems | Test Location: ETL (Dallas, TX)

Component: Canon CXDI-NE Workstation Test Date: October 2012

Model Number: CXDI-NE PC Report Number: SQ10-1205-01

UUT Function: PC for radiography system

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V	
28	7.8	18.8	16.5	26.5	9.1	10.8	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 2 - 11 gauge bent steel plates (12" x 2") on both sides of the UUT anchored to the floor with (4) 1/4" diameter bolts and connected to the UUT with 2" wide industrial Velcro tape at the top of the 12" leg.



Manufacturer: Shimadzu Medical Systems Test Location: ETL (Dallas, TX)

Component: CH-200 / BR-120 Control Cabinet Test Date: October 2012

Model Number: 503-04427D Report Number: SQ10-1205-01

UUT Function: Control cabinet for radiography system

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Weight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	SS	V	
110	19.7	15.8	20.1	18.8	1.4	>33.0	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (2) 1/4" diameter bolts and rigid floor mounted with (4) 3/8" diameter bolts



Manufacturer: Shimadzu Medical Systems

80kW High Voltage

Component: UB150B-40 Generator Cabinet

Model Number: 502-23375-01

Test Location: ETL (Dallas, TX)

Test Date: October 2012

Report Number: SQ10-1205-01

UUT Function: Generator for radiography system

UUT Description: Component of the RADSPEED X-Ray and Flouroscopy System

UUT PROPERTIES

Waight (lb)	Di	mensions (inch	es)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V	
435	27.6	15.9	71.1	N/A	N/A	N/A	

SEISMIC TEST PARAMETERS

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	2.00	1.0	1.5	3.20	2.40		
	2.60	0.0	1.5			1.74	0.70

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. Seismic enhancements made to the test unit shall be incorporated into the production units.