



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0319 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: SHIMADZU CORPORATION

Manufacturer's Technical Representative: James Mekker

Mailing Address: 20101 S. Vermont Avenue, Torrance, CA 90502

Telephone: (800) 228-1429 Email: On File

Product Information

Product Name: Sonialvision Versa 100iR / Sonialvision Safire II / Sonialvision G4 / RADspeed systems

Product Type: Radiography & Fluoroscopy and general radiographic medical diagnostic imaging systems

Product Model Number: See Attachment 1

(List all unique product identification numbers and/or part numbers)

General Description: Multiple component systems for the provision of medical diagnostic imaging. Seismic Certification is limited to the systems & components identified in Attachment 1. Seismic enhancements made to the test units & modifications required to address anomalies observed during tests shall be incorporated into the production units. **Patient Tables for the Sonialvision Versa 100iR, Sonialvision Safire II, and RADspeed systems are limited to a 385 lb. maximum patient load, based upon a tested patient load of 350 lb.**

Mounting Description: See Attachment 1

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: JONATHAN ROBERSON, S.E.

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

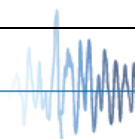
Signature of Applicant:

Date: 4/13/16

Title: Principal Engineer

Company Name: EASE Co.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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

Company Name: EASE Co.
Name: JONATHAN ROBERSON, S.E. California License Number: S4197
Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Telephone: (909) 606-7622 Email: j.roberson@easeco.com

Supports and Attachments Preapproval

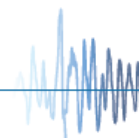
- ☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
☒ Supports and attachments are not preapproved

Certification Method

- ☒ Testing in accordance with: ☒ ICC-ES AC156
☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etldallas.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = See Attachment 1 / Table 3

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1) & 2.60 (z/h = 0)

a_p (In-structure equipment or component amplification factor) = See Attachment 1 / Table 3

R_p (Equipment or component response modification factor) = See Attachment 1 / Table 3

Ω_0 (System overstrength factor) = See Attachment 1 / Table 3

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 (S_{DS} = 2.00) & 0 (S_{DS} = 2.60)

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1 / Table 1 & 2

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog

☒ Other(s) (Please Specify): Attachments 1 & 2

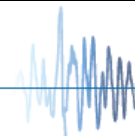
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: Timothy J. Piland Date: May 17, 2016

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): Patient Tables for the Sonialvision Versa 100iR, Sonialvision Safire II, and RADspeed systems are limited to a 385 lb. maximum patient load, based upon a tested patient load of 350 lb.



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 1 OF 4

TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS

MANUFACTURER	SHIMADZU CORPORATION						
SYSTEM	SONIAVISION VERSA 100IR SYSTEM SONIAVISION SAFIRE II SYSTEM RADSPED SYSTEM						
COMPONENT	PART NO.	DIMENSIONS (IN.)			MAX WT (LB.)	MOUNT	UUT ^[1]
		W	D	H			
ZS-100IR Remote-Controlled Elevating X-Ray ^[3] Diagnostic Table (Retracting Image Intensifier) w/ Canon CXDI-70C/701C Wireless Digital Detector Shimadzu seismic option kit SVVersa-Seismic	503-51200-43 CAN-4066B009	137.8	118.11	112.20	3184 ^[2]	Floor	1
ZS-100iR Control Cabinet Assy	503-50627-02	23.625	15.0	68.875	262.5	Wall/Floor	2
X-Ray High Voltage Generator UD150B-40 (80 kW) (Versa/Safire)	502-23375-21	27.56	15.875	71.1	594	Wall/Floor	3
DAR 8000i transformer (Trans Box Assy)	502-23340	11.81	16.93	14.96	154	Floor	4
Flat Panel Monitor Suspension System w/ Siemens LCD Monitors	ID1000F-2WOR	38	80	68	294	Ceiling	5
CH-200 Ceiling Mounted Tube Support w/ 2.6m Transverse Bridge	503-58100-27	216.54	129.92	112.21	660 + 80 rails	Ceiling	6
SA-60 High Speed Starter	503-039292 D	20.5	18.5	15.75	111	Floor	7
BR-120 Wall Stand ^[3] w/ Canon CXDI-70C/701C Wireless Digital Detector Shimadzu seismic option kit BR-Seismic	503-61800-13 CAN-4066B009	24.80	14.37	84.84	264	Wall/Floor	8
BR-120 Wall Stand ^[3] w/ Konica Aero XE Flat Panel Detector Shimadzu seismic option kit BR-Seismic	503-61800-13 AeroDR P-51	24.80	14.37	84.84	264	Wall/Floor	INT
BR-120 Wallstand with Removable Grid Canon CXDI-70C/701C Wireless Digital Detector	503-77185-35 CAN-4066B009	26.4	14.4	85.3	283	Wall/Floor	INT
BR-120 Wallstand with Removable Grid Konica Aero XE Flat Panel Detector	503-77185-35 AeroDR P-51	26.4	14.4	85.3	283	Wall/Floor	A5
ZS-100i Control Console ("Remote Console")	503-51440-03	24.41	13	10.13	18	CTA (Inset)	9
UD150B-40 X-Ray Control Console	502-23588	12.13	3.23	13.58	9	Wall CTA	10A 10B
DAR-8000i Image Processing PC (Sub Assy)	502-25576	9.84	25.59	20.3	77	Floor	11
BK-200 Table ^[3] w/ Canon CXDI-70C/701C Wireless Digital Detector Shimadzu seismic option kit BK-Seismic	503-61750-02 CAN-4066B009	92.52	31.89	33.46	720 ^[2]	Floor	13
BK-200 Control Cabinet	503-04403A	19.69	15.75	20.08	98	Floor	14
ZS-100i Safire II Table w/ ^[3] Shimadzu seismic option kit SVS-Seismic	503-51200-25	137.8	118.11	112.2	2920 ^[2]	Floor	15
ZS-100i Sub-cabinet	503-73325	23.6	13.4	43.3	220	Wall/Floor	16
PSU Rack 4	503-63909	47.24	15.75	68.9	796	Wall/Floor	17
FPD Cooling Unit Box (WPC-10)	503-74374	11.81	20.4	13.25	67	Floor	18
PCU Computer	101-2840-61	7.87	19.69	17.13	33	Floor	19
MPC Computer	502-23934-22	13.78	14.76	5.71	20	Floor	20

TABLE CONTINUES ON FOLLOWING PAGE

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 4

MANUFACTURER	SHIMADZU CORPORATION						
SYSTEM	SONIALVISION VERSA 100IR SYSTEM SONIALVISION SAFIRE II SYSTEM RADSPED SYSTEM						
COMPONENT	PART NO.	DIMENSIONS (IN.)			MAX WT (LB.)	MOUNT	UUT ^[1]
		W	D	H			
BR120 Wall Stand with Canon CXDI-401C Fixed Plate digital Detector (FPD)	503-61800-13	24.80	14.37	84.84	264	Wall/Floor	21
Side Station Computer	502-24407-13	7.75	19.625	16.75	27.5	Floor	22
Canon CXDI-NE Workstation	CXDI-NE PC	7.75	18.75	16.5	28	Floor	24
CH-200 / BR-120 Control Cabinet	503-04427D	19.69	15.75	20.1	110	Floor	25
ZS-100i Control Cabinet Assy	503-50627-02	23.62	15.75	71.1	264	Wall/Floor	26
X-Ray High Voltage Generator UD150B-40 (80 kW) (RADspeed)	502-23375-01	27.56	15.875	71.1	435	Wall/Floor	30
ZS-100 IR Isolation Transformer	503-42338-02	14	21 5/8	17 1/8	165	Floor	31
MOUNTING	FLOOR (RIGID BASE): free-standing, base-mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base. WALL: unit is surface mounted to and fully supported by a building wall or partition. WALL/FLOOR: refers to a condition where the unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided at the top of the equipment. CEILING: refers to a condition where the unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room. CTA (COUNTERTOP ANCHORED): unit sits atop and is anchored to a counter, desk, or other piece of fixed furniture. CTA (Inset): unit is inset in and anchored to a countertop or desk.						
NOTES	1. UUT# indicates that a test specimen matching these characteristics was tested. 2. Patient table weight does not include 350 lb. simulated patient load present during testing. 3. Test specimen was modified from the standard manufactured product. Seismic enhancements to the test specimens and modifications to address anomalies observed during testing shall be installed. These modifications have been organized into "Seismic Option Kits" which will be installed by Shimadzu Medical Systems.						

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2: SEISMIC CERTIFIED SYSTEMS & COMPONENTS

MANUFACTURER	SHIMADZU CORPORATION						
SYSTEM	SONIALVISION G4 SYSTEM						
COMPONENT	PART NO.	DIMENSIONS (IN.)			MAX WT (LB.)	MOUNT	UUT ^[1]
		W	D	H			
ZS-200 Remote-Controlled Elevating X-Ray Diagnostic Table - Horizontal W/ Shimadzu seismic option kit SV-G4	503-78001	92.52	76	96	3485 ^[2]	Floor	A1A & A1B
ZS-200 Cabinet	502-29300-02	27.53	19.69	72.63	569	Wall/Floor	A2
X-ray High Voltage cabinet	562-29200-02	27.53	19.69	72.63	606	Wall/Floor	A3
DR-300 Digital Cabinet	562-29101	27.53	19.69	72.63	654	Wall/Floor	A4
BR-120 Wall Stand ^[3] w/ Canon CXDI-70C/701C Wireless Digital Detector Shimadzu seismic option kit BR-Seismic	503-61800-13 CAN-4066B009	24.80	14.37	84.84	264	Wall/Floor	8
BR-120 Wall Stand ^[3] w/ Konica Aero XE Flat Panel Detector Shimadzu seismic option kit BR-Seismic	503-61800-13 AeroDR P-51	24.80	14.37	84.84	264	Wall/Floor	INT
BR-120 Wallstand with Removable Grid Canon CXDI-70C/701C Wireless Digital Detector	503-77185-35 CAN-4066B009	26.4	14.4	85.3	283	Wall/Floor	INT
BR-120 Wallstand with Removable Grid Konica Aero XE Flat Panel Detector	503-77185-35 AeroDR P-51	26.4	14.4	85.3	283	Wall/Floor	A5
ZS-200 Control Console "Remote"	563-78007-02	21.625	12.25	2.25	24	CTA (Inset)	A6
DR-300 Image Processing PC	562-29102	6.3	18.7	23	71	Floor	A7
Konica Aero Workstation (PC)	TPC-F046-SF	13.3	14.9	4	16 ^[4]	Floor	A9
EIZO 19" LCD Monitor	6GF6211-2EH51	16.5	12	13.75	19 ^[4]	CTA	A10
Hewlett Packard Wireless Access Point	J9650A	6.625	2.75	8	2	Wall	A13
Konica Aero X-ray Interface	AeroDR Interface Unit2	7	18	11.25	29	Floor	A14
LCD Touch Screen #1 (for Konica)	ROM950AIII	17	5.25	13.75	21 ^[4]	Wall	A15
LCD Screen (for DR300) 19"	SMD19102-SC6GF6211-2EH51	15.625	4.625	13.625	19 ^[4]	Wall	A16
Flat Panel Monitor Suspension System w/ Siemens LCD Monitors	ID1000F-2WOR	38	80	68	294	Ceiling	5
UD150B-40 X-Ray Control Console	502-23588	12.13	3.23	13.58	9	Wall CTA	10A 10B
Side Station Computer	502-24407-13	7.75	19.625	16.75	27.5	Floor	22
CH-200 / BR-120 Control Cabinet	503-04427D	19.69	15.75	20.1	110	Floor	25
MOUNTING	FLOOR (RIGID BASE): free-standing, base-mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base. WALL: unit is surface mounted to and fully supported by a building wall or partition. WALL/FLOOR: refers to a condition where the unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided at the top of the equipment. CEILING: refers to a condition where the unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room. CTA (COUNTERTOP ANCHORED): unit sits atop and is anchored to a counter, desk, or other piece of fixed furniture. CTA (Inset): unit is inset in and anchored to a countertop or desk.						
NOTES	- UUT# indicates that a test specimen matching these characteristics was tested. - Patient table weight does not include 400 lb. simulated patient load present during testing. - Test specimen was modified from the standard manufactured product. Seismic enhancements to the test specimens and modifications to address anomalies observed during testing shall be installed. These modifications have been organized into "Seismic Option Kits" which will be installed by Shimadzu Medical Systems. - Includes weight of mounting bracket(s).						

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 3: SEISMIC PARAMETERS

COMPONENT	F_p / W_p	a_p	R_p	Ω_0
Wall Stands (503-61800-13, 503-77185-35)	2.40Wp	1.0	1.5	1 ½
Patient Tables (503-51200-43, 503-61750-02, 503-51200-25, 503-78001)	2.40Wp	1.0	1.5	1 ½
Generator Cabinets (502-23375-21, 502-23375-01, 562-29200-02)	1.87Wp	1.0	2.5	2
Instrumentation & Control Cabinets (503-50627-02, 503-04403A, 503-04427D, 503-50627-02, 503-04427D, 503-039292D, 503-73325, 502-29300-02, 562-29101, 503-63909, 503-74374)	1.87Wp	1.0	2.5	2
Control Consoles (503-51440-03, 502-23588, 563-78007-02, 502-23588)	1.87Wp	1.0	2.5	2
Transformers (502-23340, 503-42338-02)	1.87Wp	1.0	2.5	2
Computers & accessories (502-25576, , 101-2840-61, 502-23934-22, 502-24407-13, CXDI-NE PC 562-29102, TPC-F046-SF, 6GF6211-2EH51, J9650A, AeroDR Interface Unit2, ROM950AIII, SMD19102-SC6GF6211-2EH51)	1.87Wp	1.0	2.5	2
X-Ray Tube & Monitor Suspension Systems (ID1000F-2WOR, 503-58100-27)	3.60Wp	2.5	2.5	2

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 1 OF 20

UUT- 1				Sonialvision Versa ZS-100IR Remote-Controlled Elevating X-Ray Diagnostic Table				
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:		Table:		Collimator: (Type R-50)				
		P/N: 503-51200-43		P/N: 503-50654-04				
		S/N: 3Z1D4EB26002		S/N: 3Z0FF7C26016				
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100IR System. R-50 Collimator. Canon CXDI-70C Wireless Digital Detector installed in cassette tray. Table loaded with 350lb simulated patient load.						
MOUNTING:		Floor: (4) - 3/4" bolts through 1" thick steel base plate w/ hardened steel washers to interface frame.						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side/Side	Front/Back	Vert		
137.8	118.11	112.20	3184	4.9	4.2	4.3		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT-2					ZS-100iR Table Cabinet Assy								
MANUFACTURER:		Shimadzu Medical Systems Corporation											
IDENTIFICATION:		Label 1:	Product Name: ZS-100iR		Label 2:	Product Name: ZS-100i							
		Ref No.: 1924556				ID No.: 12615993 04							
		Serial No.: 1261599304											
		Parts No.: 503-50627-02											
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100iR System.											
MOUNTING:		Wall: (2) - 3/8" bolt in holes tapped in 3/16" thk web of C6x channel Floor: (2) - 3/8" bolts ea. bracket to floor (4 bolts total)											
													
PROPERTIES:													
DIMENSIONS (in.)						Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)					
Width		Depth		Height				Front/Back		Side/Side		Vert	
23.625		15		68.875		262.5		N/A		N/A		N/A	
SHAKE TABLE TEST PARAMETERS													
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 2016		ICC-ES AC156		2.0 2.6		1.0 0	1.5	3.20 2.60		2.40 1.04		1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement													

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 20

UUT-3 X-Ray High Voltage Generator UD150B-40 (80kW) (Versa/Safire)								
MANUFACTURER: Shimadzu Medical Systems Corporation								
IDENTIFICATION: Generator		Cabinet						
P/N: 502-23370-53		P/N: 502-23375-21						
S/N: 3M5249D27004		S/N: 1265501409						
DESCRIPTION: Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems. 80 kW High Voltage Generator.								
MOUNTING: Wall: (2) - 3/8" bolt in holes tapped in 3/16" thk web of C6x channel Floor: 3/8" dia. bolt ea. corner bracket (4 bolts total)								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front/Back		Side/Side	Vert		
27.56	15.875	71.06	594	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT-4 DAR 8000i Transformer (Trans Box Assy)								
MANUFACTURER: Shimadzu Medical Systems Corporation								
IDENTIFICATION: No Label		P/N 502-23340						
DESCRIPTION: Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems.								
MOUNTING: Floor: (2) - 1/4" through bolts to floor ea. bracket (4 bolts total)								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front/Back		Side/Side	Vert		
11.81	16.93	14.96	154	8.5	11.4	19.7		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 3 OF 20

UUT-5 Flat Panel Monitor Suspension System w/ (2) LCD monitors

MANUFACTURER: Image Diagnostics Inc								
IDENTIFICATION:	Suspension: No Label			Monitors (x2): P/N: 6GF6221-2CH12				
	Model ID1000F-2WOR			S/N: HXRN000010				
DESCRIPTION:	Component of the Shimadzu Sonialvision Versa & Safire II Systems Image Diagnostics Inc. ID1000F-1WOR Flat panel monitor suspension w/ A240-975 X-Y ADAPTER FOR CH-200 1.1M SPACING ID4.0CCK 4'0 CABLE CARRIER KIT (2)- Siemens AG LCD Monitors Included 30lb of steel plates to simulate additional monitors							
MOUNTING:	Ceiling Suspended: (10) – ½" bolts to each of two longitudinal rails (20 bolts total). UUT 5 & UUT 6 are supported the same pair of longitudinal rails.							
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front/Back	Side/Side	Vert		
38	80	68	294	2.3	17.3	4.7		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT-6 CH-200 Ceiling Mounted Tube Support

MANUFACTURER:		Shimadzu Medical Systems Corporation	
IDENTIFICATION:	Label 2: Collimator Type R-300	Label 1: Model: Ceiling Type X-Ray Tube Support CH-200	
	P/N: 566-10100-04	P/N: 503-58100-27	
	S/N: MP0271422005	S/N: 016M49909	
DESCRIPTION:	Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems. Electromagnetic brakes engaged throughout testing		
MOUNTING:	Ceiling Suspended: (10) – ½" bolts to each of two longitudinal rails (20 bolts total). UUT 5 & UUT 6 are supported the same pair of longitudinal rails.		

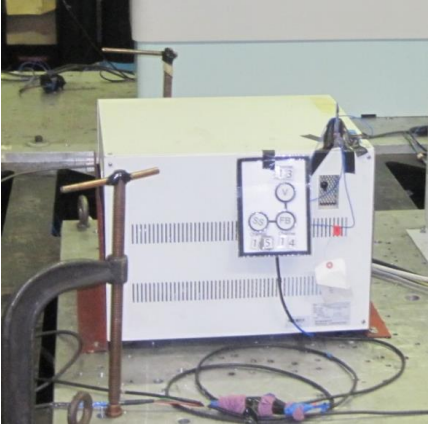
PROPERTIES:						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side/Side	Front/Back	Vert
216.54	129.92	112.21	660 + 80 rails	2.6	6.3	2. 2

SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70

Unit maintained structural integrity and functional per manufacturer requirement
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ATTACHMENT 2: TEST SPECIMEN SUMMARY

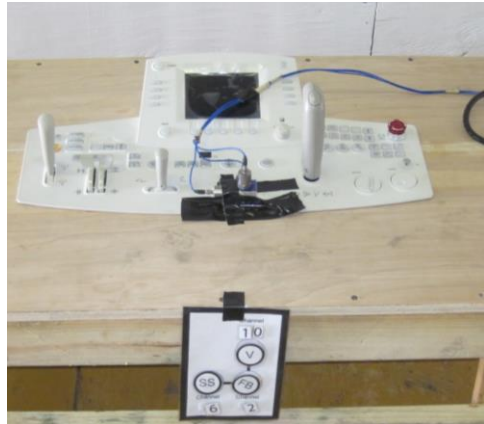
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UUT-7		SA-60 High Speed Starter						
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:		Label 1: Model: SA-60	Label 2: Model: SA-60					
		Wiring: 503-039292 D	P/N: 502-20626					
		S/N: 3M0F48825006	S/N: 3M0F48825006 / ID: 1253538506					
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100IR system.						
MOUNTING:		Floor: (2) - 1/4" in dia. bolts to floor ea. angle (4-bolts total)						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front/Back	Side/Side	Vert		
20.5	18.5	15.75	111	13.69	>50	13.7		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT-8		BR-120 Wall Stand						
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:		Label 1: Model: BR-120	Label 2: Model: BR-120					
		Serial No.: 016N10122	No.: 016N10122					
		P/N: 503-61800-13						
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100IR, Safire II & RADspeed systems. Canon CXDI-70C Wireless Digital Detector installed in cassette tray. UUT included modified cassette tray						
MOUNTING:		Wall: (2) - L3"x3"x3/16"x0'-8" back-to-back w/ (4) - 1/4" machine screws to UUT, (2) - 3/8" hex bolt in 1.5" slot joining angles (2) - 3/8" hex bolt in hole tapped in 3/16" thick web of C6x backing Floor: (4) - 3/8" bolts through base plate to OSB/Plywood deck						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side/Side	Front/Back	Vert		
24.80	14.37	84.84	264	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-9 ZS-100i Control Console									
MANUFACTURER:				Shimadzu Medical Systems Corporation					
IDENTIFICATION:				No Label					
				P/N 503-51440-03					
DESCRIPTION:				Component of the Shimadzu Sonialvision Versa 100IR & Sonialvision Safire II systems.					
MOUNTING:				Inset in plywood sheet in top face of wood framed box using Shimadzu installation kit.					
									
PROPERTIES:									
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		X-Axis	Y-Axis	Z-Axis			
24.41	13	10.13	18	9.1	43.9	10.3			
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

UUT-10A			UD150B-40 X-Ray Control Console					
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:		Model: GSC-2002L		P/N: 502-23588				
		No.: 01690VFC26						
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems. UUT-10A & UUT-10B are the same test specimen						
MOUNTING:		Wall: (6)-#10 hex bolts with washers through ¾" plywood wall panel.						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front/Back	Side/Side	Vert		
12.13	8.25	13.58	9	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

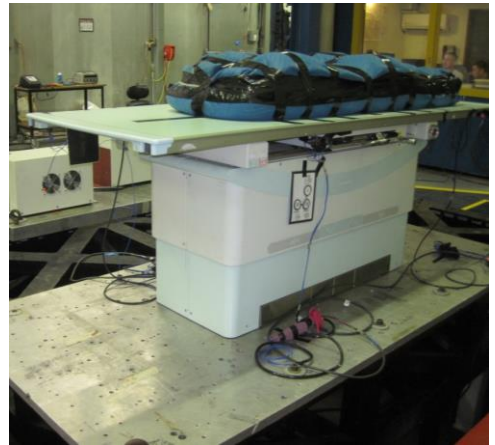
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UUT-10B		UD150B-40 X-Ray Control Console								
MANUFACTURER:	Shimadzu Medical Systems Corporation									
IDENTIFICATION:	Model: GSC-2002L P/N: 502-23588 No.: 01690VFC26									
DESCRIPTION:	Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems. UUT-10A & UUT-10B are the same test specimen									
MOUNTING:	Floor: (2) – 1/4" dia. Hex screws with nuts and washers through plywood decking									
										
				PROPERTIES:						
				DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
				Width	Depth	Height		Front/Back	Side/Side	Vert
12.13	8.25	13.58	9	19.2	18.9	16.2				
SHAKE TABLE TEST PARAMETERS										
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70		
Unit maintained structural integrity and functional per manufacturer requirement										

UUT-11		DAR-8000 Image Processing PC (Sub Assy)								
MANUFACTURER:	Shimadzu Medical Systems Corporation									
IDENTIFICATION:	No Label P/N 502-25576									
DESCRIPTION:	Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems.									
MOUNTING:	Floor: (2) – 1/4" through bolts to floor ea. bracket (4 bolts total)									
										
				PROPERTIES:						
				DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
				Width	Depth	Height		Front/Back	Side/Side	Vert
9.84	25.59	20.5	77	24.3	9.0	30.3				
SHAKE TABLE TEST PARAMETERS										
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70		
Unit maintained structural integrity and functional per manufacturer requirement										

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-13										BK-200 Table										
MANUFACTURER:		Shimadzu Medical Systems Corporation																		
IDENTIFICATION:	Label 1:	Model: BK-200				Label 2:	Model: BK-200													
		Serial No.: 0162N55132					No.: 0162N55132													
							P/N: 503-61750-02													
DESCRIPTION:		Component of the Shimadzu RADspeed System. Table loaded with 350lb simulated patient load. Canon CXDI-70C Wireless Digital Detector installed in cassette tray. Cassette tray modified to prevent cassette from sliding out of UUT during Multifrequency Seismic.																		
MOUNTING:		Floor: (4) – ½" bolts																		
PROPERTIES:																				
DIMENSIONS (in.)										Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)								
Width		Depth		Height		Side/Side		Front/Back				Vert								
92.52		31.89		33.46		720		4.5		40.9		9.6								
SHAKE TABLE TEST PARAMETERS																				
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 2016		ICC-ES AC156		2.0 2.6		1.0 0		1.5		3.20 2.60		2.40 1.04		1.34 1.74		0.54 0.70				
Unit maintained structural integrity and functional per manufacturer requirement																				

UUT-14BK-200 Control Cabinet																	
MANUFACTURER:		Shimadzu Medical Systems Corporation															
IDENTIFICATION:		Model: Control Cabinet (BK-200)				No.: 016N55132											
		Wiring: 503-04403A															
DESCRIPTION:		Component of the Shimadzu RADspeed system.															
MOUNTING:		Floor: (2) – ¼" through bolts to floor ea. bracket (4 bolts total)															
																	
PROPERTIES:																	
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)											
Width		Depth		Height						Weight (lb.)							
19.69		15.75		20.08		98		Front/Back		Side/Side		Vert					
8.5		44.7		34.2													
SHAKE TABLE TEST PARAMETERS																	
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 2016		ICC-ES AC156		2.0 2.6		1.0 0		1.5		3.20 2.60		2.40 1.04		1.34 1.74		0.54 0.70	
Un Unit maintained structural integrity and functional per manufacturer requirement																	

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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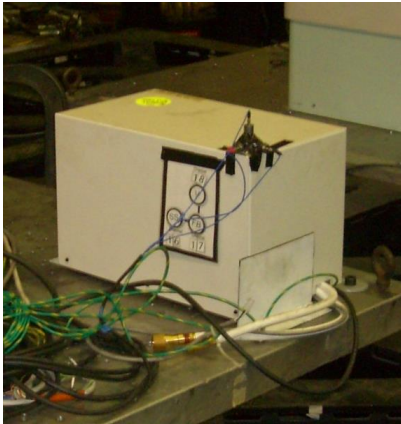
UUT-15							Sonialvision Safire II ZS-100i Remote Controlled X-Ray Diagnostic Table		
MANUFACTURER:		Shimadzu Medical Systems Corporation							
IDENTIFICATION:		Table Label	Collimator Label	Heat Exchanger					
		P/N: 503-51200-25	P/N: 503-50654-04	Varian HE-100 Heat Exchanger					
		S/N: 3Z1D4928001	S/N: 3Z0FF7C26023	S/N:					
DESCRIPTION:		Component of the Shimadzu Sonialvision Safire II System. R-50 Collimator. Varian HE-100 Heat Exchanger mounted at base of rear column. Table loaded with 350lb simulated patient load. UUT-15A & UUT-15B are the same test specimen							
MOUNTING:		Floor: (4) - 3/4" bolts through 1" thk steel base plate w/ hardened steel washers to interface frame							
PROPERTIES:									
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Side/Side				Front/Back	Vert	
137.8	118.11	112.2	2920				4.8	4.1	4.2
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

UUT-16 ZS-100i Sub-cabinet								
MANUFACTURER:				Shimadzu Medical Systems Corporation				
IDENTIFICATION:				Ref No.: 2045504		Parts No.: 503-73325		
DESCRIPTION:				Component of the Shimadzu Sonialvision Safire II system.				
MOUNTING:				Wall: (2) – ¼" dia. SMS through 3/4" OSB board to HSS6"x6"x1/4" ea angle (4 screws total) Floor: (2) – ¼" bolts through OSB Decking w/ 1-1/4" fender washers and nuts on underside ea. Angle (4 bolts total)				
								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front/Back		Side/Side	Vert		
23.6	13.4	43.3	220	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-17 PSU Rack 4																			
MANUFACTURER:		Shimadzu Medical Systems Corporation																	
IDENTIFICATION:		P/N 503-63909																	
		(No Label)																	
DESCRIPTION:		Component of the Shimadzu Sonialvision Safire II system.																	
MOUNTING:		Wall: (3) - 1/4" dia. HWH SMS ea. angle to 3/16" backing (6 screws total)																	
		Floor: (2) - 3/8" bolts thru OSB Decking w/ 1-1/4" fender washers and nuts on underside ea. angle (4 bolts total)																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)					Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)		
										Width	Depth	Height	Front/Back	Side/Side			Vert		
47.24	15.75	68.9	796	N/A	N/A	N/A													
SHAKE TABLE TEST PARAMETERS																			
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70											
Unit maintained structural integrity and functional per manufacturer requirement																			

UUT-18 FPD Cooling Unit Box (WPC-10)																			
MANUFACTURER:		Shimadzu Medical Systems Corporation																	
IDENTIFICATION:		Model: WPC-10		P/N: 503-74374															
				No.: 110133															
DESCRIPTION:		Component of the Shimadzu Sonialvision Safire II system.																	
MOUNTING:		Floor: (2)-3/8" dia. bolts to floor ea. angle (4-bolts total)																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)					Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)		
										Width	Depth	Height	Front/Back	Side/Side			Vert		
11.81	20.4	13.25	67	13.9	19.2	18.1													
SHAKE TABLE TEST PARAMETERS																			
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70											
Unit maintained structural integrity and functional per manufacturer requirement																			

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-19 PCU Computer												
MANUFACTURER: Shimadzu Medical Systems Corporation												
IDENTIFICATION:		P/N 101-28400-61								Undesignated Label: No.: 572-88009		
		S/N 1287166202										
DESCRIPTION: Component of the Shimadzu Sonialvision Safire II system.												
MOUNTING: Floor: (2) - 3/8" dia. x 2" Lag Screws floor ea. angle to OSB/Plywood deck (4 screws total)												
PROPERTIES:												
DIMENSIONS (in.)					Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Front/Back				Side/Side	Vert				
7.87	19.69	17.13	33		8.4	>50	33.9					
SHAKE TABLE TEST PARAMETERS												
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70				
Unit maintained structural integrity and functional per manufacturer requirement												

UUT-20 MPC Computer												
MANUFACTURER: Shimadzu Medical Systems Corporation												
IDENTIFICATION:		Un-designated No.: 1020262 0001										
DESCRIPTION: Component of the Shimadzu Sonialvision Safire II system.												
MOUNTING: Floor: UUT w/ (2)- 3/8" dia. lag screws ea. angle to OSB/Plywood deck (4 screws total)												
PROPERTIES:												
DIMENSIONS (in.)					Weight (lb.)		LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Front/Back				Side/Side	Vert				
13.78	14.76	5.71	20		>50	36.3	33.9					
SHAKE TABLE TEST PARAMETERS												
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70				
Unit maintained structural integrity and functional per manufacturer requirement												

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-21										BR-120 Wall Stand with fixed plate detector									
MANUFACTURER:					Shimadzu Medical Systems Corporation														
IDENTIFICATION:		Label 1:		Model: BR-120			Label 2:		Model: BR-120										
				Serial No.: 016N10122					No.: 016N10122										
									P/N: 503-61800-13										
DESCRIPTION:					Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems. Non-tilting wall stand with Canon CXDI-401C Fixed Digital Detector Focal Point set at 48" above F.F.														
MOUNTING:					<u>Wall:</u> (2) - L3"x3"x3/16"x0'-8" back-to-back w/ (4) – 1/4"machine screws to UUT, (2) – 3/8" hex bolt in 1.5" slot joining angles (2) – 3/8" hex bolt in hole tapped in 3/16" thick web of C6x backing <u>Floor:</u> (4) - 3/8" bolts through base plate to OSB/Plywood deck														
PROPERTIES:					* Wt. does not include weight of base plate.														
DIMENSIONS (in.)									Weight (lb.)			LOWEST RESONANT FREQUENCY (Hz.)							
Width			Depth			Height						Side/Side		Front/Back		Vert			
24.80			14.37			84.84			220*			N/A		N/A		N/A			
SHAKE TABLE TEST PARAMETERS																			
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 2016		ICC-ES AC156		2.0 2.6		1.0 0		1.5		3.20 2.60		2.40 1.04		1.34 1.74		0.54 0.70			
Unit maintained structural integrity and functional per manufacturer requirement																			

UUT-22					Side Station Computer			
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:	Label 1:	1020270 0001	Label 2:	S/N: 3M6B98928001				
				P/N: 502-24407-13				
				ID: 1275868903				
DESCRIPTION:								Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems.
MOUNTING:					Floor: (2) - 3/8" dia. x 2" Lag Screws floor ea. angle (4 screws total)			
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front/Back		Side/Side	Vert		
7.75	19.625	16.75	27.5	8.2	19.0	33.9		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-24 Canon CXDI-NE Workstation									
MANUFACTURER:		Shimadzu Medical Systems Corporation							
IDENTIFICATION:	No Label								
	P/N CXDI-NE PC								
DESCRIPTION:		Component of the Shimadzu RADspeed, Sonialvision Versa 100 IR & Safire II Systems.							
MOUNTING:		Floor: (2) - 3/8" dia. x 2" Lag Screws ea. angle to OSB/Plywood deck (4 screws total)							
									
PROPERTIES:									
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height				Front/Back	Side/Side	Vert	
7.75	18.75	16.5	28		9.1	26.5	10.8		
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

UUT-25			CH-200 / BR-120 Control Cabinet					
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:	Model: Control Cabinet (CH-200)		No.: 0162M49909					
	Wiring: 503-04427D							
DESCRIPTION:		Component of the Shimadzu Sonialvision Versa 100IR, Sonialvision Safire II & RADspeed systems.						
MOUNTING:		Floor: (2) – ¼" through bolts to OSB/Plywood deck ea. bracket (4 bolts total)						
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front/Back		Side/Side	Vert	
19.69	15.75	20.08	110	18.8		1.4	33.5	
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S _{DS} (g)	z/h	I _p		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)
CBC 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

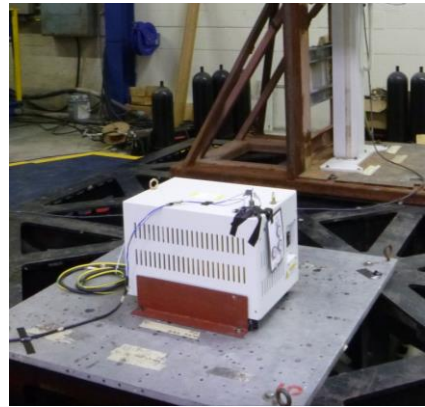
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UUT-26 ZS-100i Control Cabinet Assy												
MANUFACTURER: Shimadzu Medical Systems Corporation												
IDENTIFICATION:		P/N 503-50627-02										
DESCRIPTION: Component of the Shimadzu Sonialvision Safire II System.												
MOUNTING: <u>Wall:</u> (2) - 3/8" bolts in holes tapped in 3/16" thk web of C6x channel <u>Floor:</u> (2) - 3/8" bolts ea. bracket to floor (4 bolts total).												
PROPERTIES:												
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)							
Width	Depth	Height	Side/Side		Front/Back	Vert						
23.622	15.75	71.06	N/A		N/A	N/A						
SHAKE TABLE TEST PARAMETERS												
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70				
Unit maintained structural integrity and functional per manufacturer requirement												

UUT-30 X-Ray High Voltage Generator UD150B-40 (80kW) (RadSpeed)										
MANUFACTURER: Shimadzu Medical Systems Corporation										
IDENTIFICATION:		Label 1:	Model: UD 150B-40	Label 2:						Model: D150BC-40
			No. 0162R75005							No.: 0162R75005
										P/N: 502-23375-01
DESCRIPTION: Component of the Shimadzu RADspeed System. 80 kW High Voltage Generator										
MOUNTING: <u>Wall:</u> (2) - 1/4" dia. bolts <u>Floor:</u> (4) - 3/8" dia. bolts										
PROPERTIES:										
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Side/Side		Front/Back	Vert				
27.56	15.875	71.06	N/A		N/A	N/A				
SHAKE TABLE TEST PARAMETERS										
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70		
Unit maintained structural integrity and functional per manufacturer requirement										

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-31		ZS-100 IR Isolation Transformer						
MANUFACTURER:		Shimadzu Medical Systems Corporation						
IDENTIFICATION:	Product Name:	ZS-100i FPD						
	ID:	12778773 01						
	TAG No.:	A19						
DESCRIPTION:		Component of the SonialVision System						
MOUNTING:		Floor: (4) - 3/8" dia bolts in holes tapped in interface plate						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side/Side	Front/Back	Vert		
14"	21 5/8"	17 1/8"	165	8.1	6.3	14.8		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT- A1		ZS-200 Table						
MANUFACTURER:		Shimadzu Corporation						
IDENTIFICATION:	Part No.: 503-78001	ID No.: 1544016901						
	Serial No.: 41C356456001							
DESCRIPTION:		Subcomponent of the Sonialvision G4 System. 400 lb. simulated patient load						
MOUNTING:		Rigid Base (Floor) Mounted using (4) – ¾" dia bolts						
								
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Side/Side	Front/Back	Vert		
92.52	76	96	3485	3.4	4.0	4.1		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

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UUT-A2 ZS-200 Cabinet (a.k.a Table Cabinet)							
MANUFACTURER:		Shimadzu Corporation					
IDENTIFICATION:	Part No.: 502-29300-02		ID No.:1544029001				
	Serial No.:3MW30D256001						
DESCRIPTION:		Component of the Shimadzu Sonialvision G4 System.					
MOUNTING:		Wall/Floor Mounted: (2) – ¼” dia bolts to wall & (4) – ½” dia bolts to floor					



UUT-A3 D150BC-40S X-ray High Voltage Generator Cabinet								
MANUFACTURER:		Shimadzu Corporation						
IDENTIFICATION:	Part No.: 562-29200-02			ID No.:1582961401				
	Serial No.:LME09C256002							
DESCRIPTION:		Subcomponent of the Sonialvision G4 System. Generator Cabinet. Also referred to as D150BC-40S cabinet.						
MOUNTING:		Wall/Floor Mounted: (2) – ¼" dia bolts to wall & (4) – ½" dia bolts to floor						
								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Side/Side		Front/Back	Vert		
27.53	19.69	72.63	606	23.8	24.2	37.4		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								



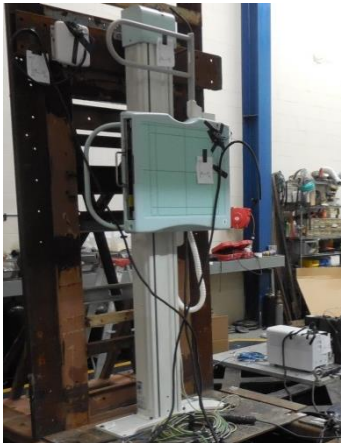
ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-A4 DR-300 Digital Cabinet

MANUFACTURER: Shimadzu Corporation								
IDENTIFICATION:	Part No.: 562-29101							
	Serial No.: 1580486521							
DESCRIPTION:	Subcomponent of the Sonialvision G4 System							
MOUNTING:	Wall/Floor Mounted: (2) – ¼" dia bolts to wall & (4) – ½" dia bolts to floor							
PROPERTIES:								
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		Weight (lb.)				
27.53	19.69	72.63						
			654	Side/Side	Front/Back	Vert		
				25.8	25.5	37.1		
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

UUT-A5 BR-120 Wallstand

MANUFACTURER: Shimadzu Corporation								
IDENTIFICATION:	Model No.: BR-120	Part No.:503-77185-35						
	Serial No.:41AF6C754013							
DESCRIPTION: Subcomponent of the Sonialvision G4 System. UUT-11 Konica Aero XE Flat Panel Detector installed in cassette tray. Removable grid installed								
MOUNTING: Wall/Floor Mounted using (2) – ¼” dia bolts to wall & (4) – 3/8” dia bolts to floor								
PROPERTIES:								
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		Weight (lb.)	Front/Back	Side/Side	Vert	
26.4	14.4	85.3			283	13.2	9.9	19.9
SHAKE TABLE TEST PARAMETERS								
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functional per manufacturer requirement								

ATTACHMENT 2: TEST SPECIMEN SUMMARY

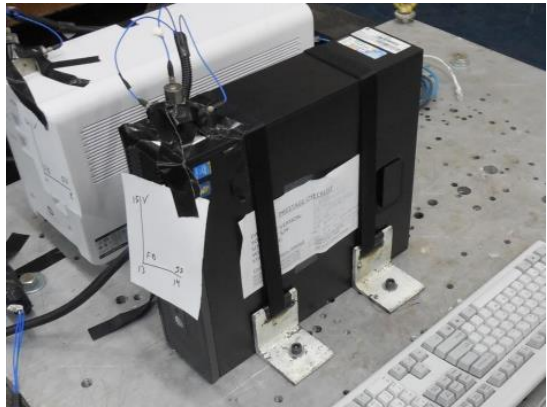
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UUT-A6 ZS-200 Control Console "Remote"									
MANUFACTURER: Shimadzu Corporation									
IDENTIFICATION: Model No.: 563-78007-02 console with 563-78013 mounting kit									
DESCRIPTION: Subcomponent of the Sonialvision G4 System.									
MOUNTING: Inset in plywood sheet in top face of wood framed box with (6) 1/4" - 20 machine screws threaded into steel inserts screwed into plywood.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front/Back	Side/Side	Vert		
21.625	12.25	2.25	24		35.0	46.5	32.3		
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

UUT-A7 DR-300 Image Processing PC									
MANUFACTURER: Shimadzu Corporation									
IDENTIFICATION: 562-29102 (No Label)									
DESCRIPTION: Subcomponent of the Sonialvision G4 System									
MOUNTING: Rigid Base (Floor) Mounted using Shimadzu provided bracket with (4) - 3/8" dia. bolts.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front/Back	Side/Side	Vert		
6.3	18.7	23	71		>50	17.9	46.9		
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

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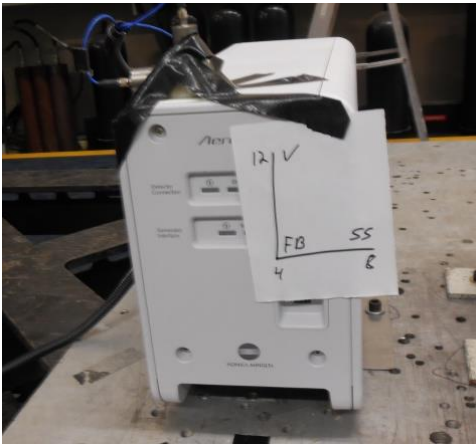
UUT-A9 Konica Aero Workstation									
MANUFACTURER:		Hewlett Packard							
IDENTIFICATION:		Model No.: TPC-F046-SF							
		Serial No.: 2UA4501YWW							
DESCRIPTION:		Subcomponent of the Sonialvision G4 System							
MOUNTING:		Rigid Base (Floor) Mounted using (2) – 1" wide nylon strap w/ metal cinch (100 lb tension / 200 WLL) looped through slots in vertical legs of (4) – L2.5" x 2.5" x 1/4" x 0' – 2.5" brackets positioned snug against unit Each bracket attached w/ (1) – 3/8" dia bolts to aluminum plate							
									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front/Back	Side/Side	Vert		
13.3	14.9	4	13 + 3 lb. brackets		>50	36.9	>50		
SHAKE TABLE TEST PARAMETERS									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

UUT-A10 19" LCD Monitor									
MANUFACTURER:		EIZO GmbH							
IDENTIFICATION:		Part No.: 6GF6211-2EH51 SMD 19102 SC							
		Serial No.: HXDD004249							
DESCRIPTION:		Subcomponent of the Sonialvision G4 System							
MOUNTING:		Countertop Anchored using (2) – 1/4" dia machine screws with nuts and washers through 3/4" plywood.							
									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side/Side	Front/Back	Vert		
16.5	12	13.75	13.5 + 5.5 lb. brackets		---	---	---		
SHAKE TABLE TEST PARAMETERS									
<i>*Instrumentation error during test.</i>									
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70	
Unit maintained structural integrity and functional per manufacturer requirement									

ATTACHMENT 2: TEST SPECIMEN SUMMARY

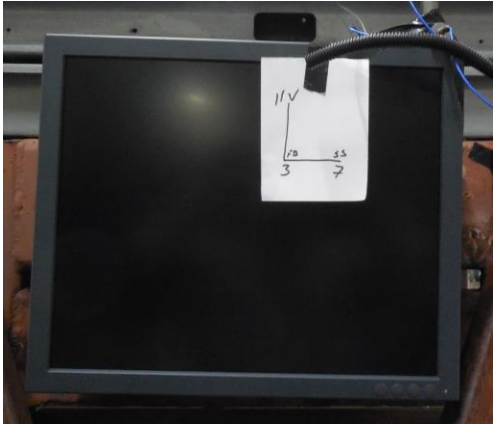
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UUT-A13 HP Wireless Access Point																			
MANUFACTURER:		Hewlett Packard																	
IDENTIFICATION:		Product No.: J9650A				Model No.: MRLBB-1001													
		Serial No.: CN54DWY0K3																	
DESCRIPTION:		Subcomponent of the Sonialvision G4 System																	
MOUNTING:		Wall mounted using (3) - #10 machine screws tapped into 1/4" thick backing plate.																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
										Width		Depth		Height	Weight (lb.)		Front/Back		Side/Side
6.625		2.75		8	2		---		---	---									
SHAKE TABLE TEST PARAMETERS																			
CODE		TEST CRITERIA		S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}									
CBC 2016		ICC-ES AC156		2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70									
Unit maintained structural integrity and functional per manufacturer requirement																			

UUT-A14 Konica AERO X-ray Interface																			
MANUFACTURER:		Konica Minolta, Inc.																	
IDENTIFICATION:		Model No.: AeroDR Interface Unit2																	
DESCRIPTION:		Subcomponent of the Sonialvision G4 System																	
MOUNTING:		Floor mounted using (2) – 3/8" dia bolts																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
										Width		Depth		Height	Weight (lb.)		Front/Back		Side/Side
7		18		11.25	28.5		12.0		14.3	11.5									
SHAKE TABLE TEST PARAMETERS																			
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 2016		ICC-ES AC156		2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70									
Unit maintained structural integrity and functional per manufacturer requirement																			

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UUT-A15 LCD Touch Screen (for Konica)																			
MANUFACTURER:		Shimadzu Corporation																	
IDENTIFICATION:		Part No.: ROM950AIII																	
		Serial No.: DTO29110457																	
DESCRIPTION:		Subcomponent of the Sonialvision G4 System																	
MOUNTING:		Wall mounted using (4) - #10 machine screws tapped into 3/8" backing.																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
										Width	Depth	Height	Side/Side		Front/Back	Vert			
17	5.25	13.75	16.5 + 4 lb. bracket	---	---	---													
SHAKE TABLE TEST PARAMETERS																			
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70											
Unit maintained structural integrity and functional per manufacturer requirement																			

UUT-A16 19" LCD Monitor for DR-300																			
MANUFACTURER:		EIZO GmbH																	
IDENTIFICATION:		Part No.: SMD19102-SC6GF6211-2EH51"																	
		Serial No.: HXDD004249																	
DESCRIPTION:		Subcomponent of the Sonialvision G4 System																	
MOUNTING:		Wall mounted using (4) - #10 machine screws tapped into 3/8" backing.																	
																			
										PROPERTIES:									
										DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
										Width	Depth	Height	Side/Side		Front/Back	Vert			
15.625	4.625	13.625	13.5 + 5.5 lb. bracket	---	---	---													
SHAKE TABLE TEST PARAMETERS																			
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 2016	ICC-ES AC156	2.0 2.6	1.0 0	1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70											
Unit maintained structural integrity and functional per manufacturer requirement																			