



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

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

OFFICE USE ONLY

APPLICATION #: OSP-0696

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: FUJIFILM Healthcare Corporation

Manufacturer's Technical Representative: Michael Haber

Mailing Address: 1959 Summit Commerce Park, Twinsburg, OH 44087

Telephone: (800) 800-4925 Email: Michael.Haber@fujifilm.com

Product Information

Product Name: SCENARIA View Whole Body X-ray CT System

Product Model Number(s): See Attachment 1

Product Category: CT Systems

Product Sub-Category: NA

General Description: Multiple-component medical diagnostic imaging system. Special Seismic Certification is limited to system components identified in Attachment 1 for functions related to Computed Tomography (CT) diagnostic imaging services

Mounting Description: Several - See Certified Product Tables -

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

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: Jonathan Roberson

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

Telephone: (909) 606-7622 Email: jon@EASECo.com

Title: Principal Engineer





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

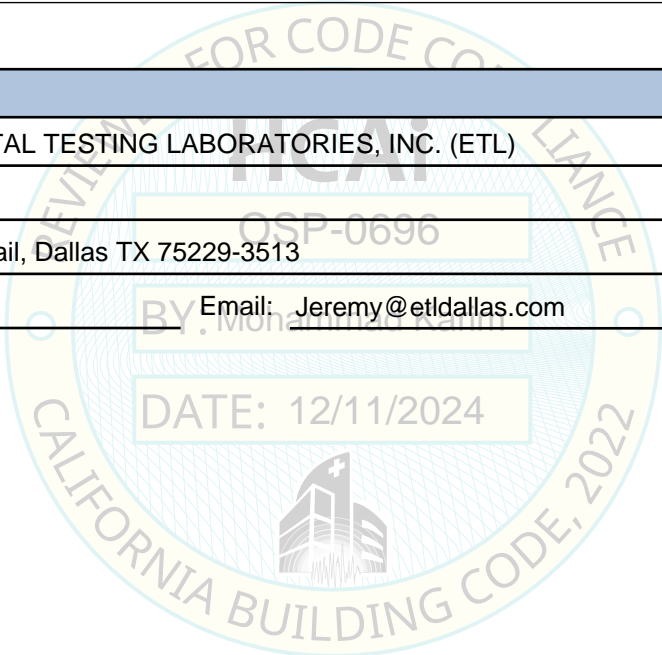
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

Certification Method

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

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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Seismic Parameters

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

SDS (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1) and 2.5 (z/h = 0)

a_p (Amplification factor) = See Attachment 1

R_p (Response modification factor) = See Attachment 1

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 2

Overall dimensions and weight = See Attachment 1

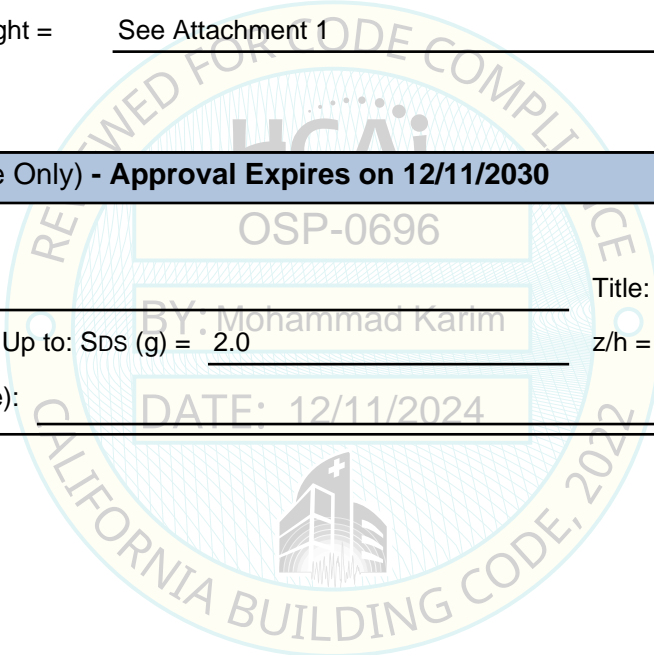
HCAI Approval (For Office Use Only) - Approval Expires on 12/11/2030

Date: 12/11/2024

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable): DATE: 12/11/2024



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

System Manufacturer		FUJIFILM Healthcare Corporation							S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
System		Scenaria View (Whole Body X-Ray CT)										
COMPONENT	IDENTIFICATION NUMBER	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀	
		W	D	H								
GANTRY												
CT Scanner Gantry	CT-WS-21D	92.5	37.1	78.7	4779	Rigid Base	UUT-2005-1	2.40 1.13	1	1 ½	2	
PATIENT TABLE												
Patient Table with Lateral Slide	CT-WT-23	25.6	110.4 - 193.0	19.3 - 40.0	1194 ^[2]	Rigid Base	UUT-2005-2	2.40 1.13	1	1 ½	2	
Increased Capacity Patient Table with Lateral Slide	CT-WT-23M	25.6	110.4 - 193.4	19.3 - 38.2	1180 ^[2]	Rigid Base	UUT-2403-1	2.40 1.13	1	1 ½	2	
CONSOLES												
Operator Console ^[3]	CT-OC-22	16.6	29.3	23.9	169.5	Rigid Base	UUT-2005-3	1.50 1.13	2 ½	6	2	
Operator Console, with ^[4]	CT-OC-23A	16.5	27.6	23.6	165.5	Rigid Base	UUT-2204-1	1.50 1.13	2 ½	6	2	
Transformer for CT-OC-23A	AA36514	11.8	11.8	11.8	83.5	Rigid Base	UUT-2204-3	1.44 1.13	1	2 ½	2	
Operator Console, with ^[4]	CT-OC-23B	16.5	27.6	23.6	171	Rigid Base	UUT-2204-2	1.50 1.13	2 ½	6	2	
Transformer for CT-OC-23B	AA36514	11.8	11.8	11.8	83.5	Rigid Base	SAME AS UUT-2204-3	1.44 1.13	1	2 ½	2	
UPS (Fuji Electric Co., Ltd.) ^[5]	CT-UPS-3	6.9	19.6	8.7	52	Rigid Base	UUT-2005-7	1.44 1.13	1	2 ½	2	
UPS (Fuji Electric Co., Ltd.) ^[5]	CT-UPS-4	6.9	19.6	8.7	52	Rigid Base	UUT-2204-4	1.44 1.13	1	2 ½	2	
USER INTERFACE												
LCD Monitor, 24" (EIZO) ^[5]	CT-MON-SCEV	22.6	9.6	16.1 - 21.8	18	CTA	UUT-2005-4	1.44 1.13	1	2 ½	2	
LCD Monitor, 24" (EIZO) ^[5]	CT-MON-SCEV2	21.7	11.5	17.0 - 20.5	16	CTA	UUT-2204-5	1.44 1.13	1	2 ½	2	

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

System Manufacturer: FUJIFILM Healthcare Corporation							$S_{DS} = 2.0$ at $z/h = 1$ $S_{DS} = 2.5$ at $z/h = 0$				
System: Scenaria View (Whole Body X-Ray CT)											
COMPONENT	IDENTIFICATION NUMBER	APPROX. DIMENSIONS (IN.)			APPROX. WT. (LB.)	MOUNT	BASIS [1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
Speaker (Kanda) [5]	MK-SP8B	5.6	5.4	8.0	2.5	Wall	UUT-2005-5	1.44 1.13	1	2 ½	2
Intercom Box [5]	CT-IBOX-SCEV	18.1	3.5	2.2	2	CTA	UUT-2005-6	1.44 1.13	1	2 ½	2
Mount	<p><u>RIGID BASE</u>: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>CTA (Countertop, Anchored)</u>: unit is anchored to a counter, desk, or other piece of fixed furniture.</p> <p><u>WALL</u>: component fully supported by a building wall structure</p>										
Notes	<ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program SAME: Indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software Patient table weight does not include simulated patient weight present during test. See Attachment 2. Requires use of system seismic kit P/N: 453341 Requires use of system seismic kit P/N: HC00222 Requires use of one system seismic kit P/N: HC00222 or P/N: 453341 										

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-2005-1 CT Scanner Gantry							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation)					
<i>Identification:</i>		Type No.: CT-WS-21D Serial No.: KB404A00005					
<i>Description:</i>		Component of Scenaria View CT System					
<i>Mounting:</i>		Rigid Base (Floor) mounted using (8) – 1/2" dia. SAE J429 Grade 5 Allen Head Cap Screws w/ Standard Washers					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
92.5	37.1	78.7	5.50		5.98	11.82	
ICC-ES AC156 Shake Table Test Parameters							
S_{DS} [G]	z/h	I_p	A_{FLX-H} [G]	A_{RIG-H} [G]	A_{FLX-V} [G]	A_{RIG-V} [G]	
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



UUT-2005-2 Patient Table							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation)					
<i>Identification:</i>		Type No.: CT-WT-23 Serial No.: KB404A00005					
<i>Description:</i>		Component of Scenaria View CT System Includes built-in lateral shift functionality.					
<i>Mounting:</i>		Rigid Base (Floor) mounted using (4) – 5/8" dia. SAE J429 Grade 8 Allen Head Cap Screws w/ Standard Washers					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Transv - Axis		Longit - Axis	Vert - Axis	
25.6	110.4 – 193*	19.3 - 40.0*	3.94		10.15	5.13	
ICC-ES AC156 Shake Table Test Parameters							
S_{DS} [G]	z/h	I_p	A_{FLX-H} [G]	A_{RIG-H} [G]	A_{FLX-V} [G]	A_{RIG-V} [G]	
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-2005-3 Operator Console							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation)					
<i>Identification:</i>		Type No.: CT-OC-22 Serial No.: KB404A00005					
<i>Description:</i>		Component of Scenaria View CT System					
Requires the use of system seismic kit P/N: 453341							
<i>Mounting:</i>		Rigid Base (Floor) mounted using (6) – 3/8" dia. SAE J429 Grade 8 Allen Head Cap Screws w/ Standard Washers					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
16.6	29.3	23.9	169.5		27.10	19.90	>50
ICC-ES AC156 Shake Table Test Parameters							
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.0	1	1.5	3.20	2.40	1.68	0.68	
2.5	0						
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



UUT-2005-4 LCD Monitor, 24"							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation) / EIZO					
<i>Identification:</i>		Type No.: CT-MON-SCEV Serial No.: KB404A00005					
<i>Description:</i>		Component of Scenaria View CT System					
<p><u>Monitor also labeled:</u> EIZO Corporation Model: Radiforce MX242W; Serial No.: 45649096</p> <p><u>Includes:</u> Desk mount which is part of system seismic kit P/N: 453341</p> <p>*Tested at 21.8 in height during test.</p>							
<i>Mounting:</i>		Countertop Attached mounted using (4) – 5/16" dia. Stainless Steel Square-neck Carriage Bolts w/ Standard Washers, Split-ring Lock Washer, and Lock Nuts through provided external bracket					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
22.6	9.6	16.1 - 21.8*	18		9.11	4.80	7.36
ICC-ES AC156 Shake Table Test Parameters							
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.0	1	1.5	3.20	2.40	1.68	0.68	
2.5	0						
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-2005-5 Speaker							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation) / Kanda					
<i>Identification:</i>		Part No.: MK-SP8B Serial No.: <None>					
<i>Description:</i>		Component of Scenaria View CT System					
		Wall mount included in required system seismic kit P/N: 453341					
<i>Mounting:</i>		<u>Wall mounted</u> using (2) – 1/4" dia HWH Tek Screws through provided external bracket into metal stud					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
5.60	5.40	8.0	---		---	---	
ICC-ES AC156 Shake Table Test Parameters							
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							





UUT-2005-6 Intercom Box							
<i>Manufacturer:</i>		Hitachi, Ltd. (Now Fujifilm Healthcare Corporation)					
<i>Identification:</i>		Type No.: CT-IBOX-SCEV Serial No.: KB404A00005					
<i>Description:</i>		Component of Scenaria View CT System					
		Requires the use of system seismic kit P/N: 453341					
<i>Mounting:</i>		<u>Countertop Attached mounted</u> using (4) – #10 HWH Teks Screws through provided external bracket into 3/4" plywood					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
18.1	3.5	2.2	>50		>50	12.15	
ICC-ES AC156 Shake Table Test Parameters							
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-7 Uninterruptible Power Supply (UPS)						
Manufacturer: Hitachi, Ltd. (Now Fujifilm Healthcare Corporation) / Fuji Electric Co., Ltd.						
Identification: Type No.: CT-UPS-3 Serial No.: KB404A00005						
Description: Component of Scenaria View CT System Also labeled Fuji Electric Co., Ltd. Model: GX200 1.5 kVA Requires the use of system seismic kit P/N: 453341						
Mounting: Rigid Base (Floor) mounted using (4) – 3/8" dia. SAE J429 Grade 8 Hex Head Screws w/ Standard Washers through (2) 14 ga Steel Brackets from Seismic Kit						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
6.9	19.6	8.7	52	>50	>50	>50
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RI-G} [G]	A _{FLX-V} [G]	A _{RI-G} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						


UUT-2204-1 Operator Console						
Manufacturer: Fujifilm Healthcare Corporation						
Identification: Type No.: CT-OC-23A Serial No.: KB471AH-10						
Description: Component of Scenaria View CT System Requires separately mounted transformer (P/N: AA36514) Requires system seismic kit P/N: HC00222						
Mounting: Rigid Base (Floor) mounted using (6) – 3/8" dia. SAE J429 Grade 5 Allen Head Cap Screws w/ Standard Washers						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
16.5	27.6	23.6	165.5	11.21	11.91	11.82
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RI-G} [G]	A _{FLX-V} [G]	A _{RI-G} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						


UUT-2204-2 Operator Console						
<i>Manufacturer:</i>		Fujifilm Healthcare Corporation				
<i>Identification:</i>		Type No.: CT-OC-23B Serial No.: KB471AH-01				
<i>Description:</i>		Component of Scenaria View CT System Requires separately mounted transformer (P/N: AA36514) Requires system seismic kit P/N: HC00222				
<i>Mounting:</i>		Rigid Base (Floor) mounted using (6) – 3/8" dia. SAE J429 Grade 5 Allen Head Cap Screws w/ Standard Washers				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
16.5	27.6	23.6	171	11.73	12.44	11.96
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						




UUT-2204-3 Transformer for CT-OC-23A						
<i>Manufacturer:</i>		Fujifilm Healthcare Corporation				
<i>Identification:</i>		Part No.: AA36514 Serial No.: KB471AH-10				
<i>Description:</i>		Component of Scenaria View CT System Also labeled Model No.: CT-OC-23A				
<i>Mounting:</i>		Rigid Base (Floor) mounted using (4) – 3/8" dia. SAE J429 Grade 5 Allen Head Cap Screws w/ Clipped Washers (7/8" OD, 3/8" ID, 1/16" THK, 0.8" WIDTH, Steel)				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
11.8	11.8	11.8	83.5	45.70	>50	>50
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



UUT-2204-4 Uninterruptible Power Supply (UPS)						
Manufacturer:		Fujifilm Healthcare Corporation / Fuji Electric Co., Ltd.				
Identification:		Type No.: CT-UPS-4 Serial No.: KB471AH-05				
Description:		Component of Scenaria View CT System Also labeled Fuji Electric Co., Ltd. Model: GX200 1.5 kVA Requires the use of system seismic kit P/N: HC00222				
Mounting:		Rigid Base (Floor) mounted using (4) – 3/8" dia. SAE J429 Grade 5 Allen Head Cap Screws w/ Standard Washers through (2) 14 ga Steel Brackets from Seismic Kit				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
6.9	19.6	8.7	52	>50	47.52	>50
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2204-5 LCD Monitor, 24"						
Manufacturer:		Fujifilm Healthcare Corporation / EIZO				
Identification:		Type No.: CT-MON-SCEV2 Serial No.: KB471AH-5				
Description:		Component of Scenaria View CT System Monitor also labeled: EIZO Corporation Model: RadiForce MX243W; Serial No.: 20060052 <u>Includes:</u> Desk mount and mounting hardware (Part of system seismic kit P/N: HC00222) *Tested at 20.5" in height during test.				
Mounting:		Countertop Attached mounted using (4) – 5/16" dia. Stainless Steel Square-neck Carriage Bolts w/ Standard Washers, Split-ring Lock Washer, and Lock Nuts through provided external bracket				
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
21.7	11.5	17.0 – 20.5*	16	9.38	7.46	9.27
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-2403-1 Increased Capacity Patient Table with Lateral Shift						
<i>Manufacturer:</i> FUJIFILM Healthcare Corporation						
<i>Identification:</i> Type No.: CT-WT-23M Serial No.: 7B00128424						
<i>Description:</i> Component of Scenaria View CT System Includes built-in lateral shift functionality for patient positioning in transverse direction *Patient Test Load of 530 lb not included in component weight. Test configuration for Depth = 158.4 in and Height = 34.625 in						
<i>Mounting:</i> Rigid Base (Floor) mounted using (4) – 5/8" dia. SAE J429 Grade 5 bolts w/ standard washers. (Torque=40 ft-lb)						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Transv - Axis	Longit - Axis	Vert - Axis
25.6	110.35 – 193.43*	19.29 – 38.19*	1180*	2.16	10.41	5.43
ICC-ES AC156 Shake Table Test Parameters						
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

DATE: 12/11/2024

