FUJIFILM

Whole-body X-ray CT System SCENARIA View

Product Specification



FUJIFILM Healthcare Corporation

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1. Product Overview

General Description

Delivers a superb view.

FUJIFILM Healthcare Corporation's CT continues its evolution for all doctors, operators and patients.

Driving you ahead with SCENARIA View.

Next-generation iterative approximation processing

FUJIFILM Healthcare Corporation's "Intelli IPV*" next-generation iterative approximation processing is one of the image reconstruction techniques that reduce the noise in the projection and image space based on a high-precision statistical model by an iterative processing. This is made possible without the need for a dedicated operation room or additional hardware.

*IPV : Iterative Progressive reconstruction with Visual modeling

Sharp reduction of the examination time

We aimed to reduce the time by segmenting and optimizing the flow of the procedures of CT imaging. In particular, we reduced the time by shortening operation which have a huge burden on operators.

The complicated work of cardiac CT imaging is automated. Clear cardiac images are provided with simple examination.

Achieved smooth operation and comfortable scanning

For patients who undergo regular scanning and to reduce burdens on small children, a scanning space which is friendly to both the operator and patient has been realized.

Overview

2. Syster	m Configuratio	on		
Standard configuration	 Scanner gantry Patient table (CT-WT-22) 	:	1 1	
	3. Operator's console	:	1 Console unit DVD drive 24-inch LCD monitor Intercom Keyboard Mouse	
	4. Standard accessories	:	Gantry monitor (Touch Vision) Breath-Navi display Foot switch Patient mat Immobilizing bands Flap with slide rails	1 1 1 1set 1set
	5. Standard functions	:	Head rest 1 (Flat type) Head band 1 Chin band 1 Triangle mattress Foot mat Arm rest 1 (for HF) Head rest 2 (for Arm rest 1) Speaker (for CT room) Instruction manual Normal scan Volume scan Dynamic scan Predict scan Preview scan Orbital synchronized scan IntelliEC (Auto exposure control) IntelliEC Plus (Auto exposure control with IP)	1 1 1 1 1 1 1 1 1 set

Quick Entry
AutoPose
Dose Check
CORE Plus
Intelli IP Advanced
Fine Recon
HiMAR (Metal Artifact reduction)
HiMAR Plus (Metal Artifact reduction)
Remote home position
Eco mode
DICOM 3.0 output / DICOM print
DICOM Query/Retrieve
DICOM Dose SR
Simple Dose Report
(Secondary capture image)
DICOM MWM ^{*1}
Viewer for media (CD/DVD)
MPR/3D
CEV-CPR
Remote Service
Data Security ^{**2}

%1 MWM : Modality Worklist Management

%2 Compatible with NEMA XR-26 [Access Controls for Computer Tomography]

:

Configuration	Options	1. 2. 3. 4. 5. 6. 7. 8.	Lateral slide patient table $(CT-WT-23)^{\times 3}$ 84kW Generator (including X-ray tube) ^{**3} Chin rest (for Arm rest 1) Arm rest 2 (for FF) Spacer 1 (5°) Spacer 2 (10°) Head band 2 (1,120mm) Chin band 2 (1,140mm)
		14.	Phantom for Quality Exam (Water, QA)
		15.	UPS for console
		16.	External stands microphone
		17.	Intelli IPV ^{×4}
		18.	ECG scan package ^{×5}
			CardioConductor
			CardioHarmony
			(ECG dose modulation)
		×3 F	actory installed option
		×4 I	erative Progressive reconstruction with Visual modeling
		.×5 €	(1) In Responsible Customer Inc. Madel 2000
			(1) Ivy Biomedical Systems, Inc.: Model 3000H
			(2) Nikes Kehden Corn : BEM 2000 series
		וס	(3) Ninon Konden Corp.: BSM-3000 series
		וק ד)	the connecting cable of Nihon Kohden Corp. is optional.)
		(1	The connecting cable of Minori Konden Corp. is optional.)
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Options for	
scanning	

- 1. Injector Synchronization^{**6}
- 2. Injector connection cable
- 3. Shuttle scan
- 4. Dual energy scan
- 5. guideShot
- %6~ Compatible CT Injectors for SCENARIA View are below.

	Manufacturer	Product name		CT synchronization kit	CAN/WIRE	
(1)	Bayer Medical Care	MEDRAD Stellant CT		STELLANT D + ISI900	CAN	
	Inc.	Injection System D		Injection System D synchronization kit		
		with Certegra Workstation				
(2)	Nemoto Kyorindo	DUAL SHOT a7		DUAL SHOT a7 +	WIRE	
	co., Ltd			synchronization kit		
(3)	Imaxeon Pty Ltd.	Salient (Dual)		Salient + ISI700	WIRE	
					synchronization kit	
(4)	Bayer Medical Care	MEDRAD Centargo CT		Centargo + ISI2	CAN	
	Inc.	Injection System		synchronization kit		
(5)	ulrich GmbH &	CT motion		CT motion +	CAN	
	Co.KG			synchronization kit		

Options for

- 1. Hyper Q-Net V^{*7} (Network-compatible Image analysis software)
- 2. fatPointer (Body fat analysis software)^{**8}
- 3. riskPointer (LAA analysis software)^{**8}

4. Calcium Scoring^{**8}

- 5. DICOM MPPS (including IHE/SWF)^{**9}
- %7 This includes software only, and PC(Windows 10 Pro 64bit type) shall be procured by customer.
- %8 fatPointer, riskPointer and Calcium Scoring can be used in Hyper Q-Net V environment only.
- MPPS : Modality Performed Procedure Step
 IHE/SWF : Integrating the Healthcare Enterprise/Scheduled Workflow

- image processing
- & DICOM
-

Configuration

Specification 3. Specification 1. Object for scanning : Whole body including head Scanner gantry 2. Scanning system : Continuous rotation system (Rotate/Rotate+Offset detector system) Scanning time : 0.35, 0.4, 0.5, 0.75, 1.0, 2.0sec 3. 4. 800mm Gantry opening : 5. Gantry tilt angle : ±30 degree 6. Setting scan position : Laser marker 7. Max number of slices 128slices : 8. Effective field of view : 500mm (FOV) 1. X-ray generation X-ray : Continuous X-rays generator/ 2. X-ray tube 7.5MHU : Detector : 72kW (600mA@120kV), 100kVA 3. Maximum output 84kW^{*10} (700mA@120kV), 100kVA Tube voltage : 80, 100, 120, 140kV 4. 10~600mA / 10~700mA^{**10} 5. Tube current 1 Number of elements 56,832 elements 6. : 7. Detector 0.625mm x 64rows : %10 84kW Generator option 1. Type of table Patient table Lateral slide : Patient table (CT-WT-22) patient table (CT-WT-23) 2. Material of tabletop Carbon fiber 1 490~970mm 3. Tabletop height 1 1,750 mm / 2,000 mm^{*11} 4. Max. scannable range @ Normal Scan 5. Lateral slide travel ±100mm 250kg / 220kg *11 6. Maximum load (Supportable load) %11 When Extended tabletop is used.

Scanning system 1. Scanogram Scannable range : 1,750mm 2. Normal scan Scan time : 0.35, 0.4, 0.5, 0.75, 1.0, 2.0sec Image slice thickness : 0.625, 1.25, 2.5, 5.0, 10.0mm View rate : 2,880view/sec 3. Dynamic scan Scan time : 0.35, 0.4, 0.5, 0.75, 1.0, 2.0sec Image slice thickness : 0.625, 1.25, 2.5, 5.0, 10.0mm View rate : 2,880view/sec 4. Volume scan Scan time : 0.35, 0.4, 0.5, 0.75, 1.0, 2.0sec Image slice thickness : 0.625, 1.25, 2.5, 5.0, 10.0mm View rate : 2,880view/sec 4. Volume scan Scan time : 0.35, 0.4, 0.5, 0.75, 1.0sec Image slice thickness : 0.625, 1.0, 1.25, 2.5, 3.75, 5.0, 7.5, 10.0mm View rate : 2,880view/sec Beam pitch : 0.578, 0.828, 1.078, 1.328, 1.578 (@ 40mm collimation) 0.594, 0.844, 1.094, 1.344, 1.594 (@ 20mm collimation) 0.594, 0.844, 1.094, 1.344, 1.594 : CORE Plus (Cone-beam Reconstruction) Image display/ process : Central image processing unit : Multi-processor system processing unit 1. Central image RawData : over 2TB, over 600,000images RawData : over 3TB, over 6,000scans 3. Archival storage RawData : over 3TB, over 6,000scans : Archival storage RawData : DVD drive (CD-R, DVD-R) About 7,000images (4.7GB DVD) 4. Image display Display matrix : 1,920 x 1,200 : 1,920 x 1,200						
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			Display matrix		1 920 x 1 200	
Reconstruction matrix · 512 x 512			Reconstruction matrix		512 x 512	
Display gray scale : 256 levels			Display gray scale		256 levels	
Window level $-2000 \times +4000$ (Standard)			Window level		$-2.000 \times +4.000$ (Standard)	
-32 768~+32 767 (Extended)				•	-32 768~+32 767 (Extended)	
Window width 1~6 000 (Standard)			Window width		$1 \sim 6\ 000\ (Standard)$	
$1 \sim 32767$ (Evtended)				•	$1 \sim 32$ 767 (Extended)	

	••••••			
<u>Ч</u>	5.	Image processing		
) e		Window process	:	Window level / Width adjustment
cif			:	Black/white contrast reversal
		Image display process	:	Multi frame display
ati			:	Magnification (real-time etc.)
Р			:	Image rotation
_			:	Pan
			:	Data display
			:	Edge enhancement/smoothing
		Image analysis process	:	Distance and angle measurement
			:	Setting ROI
			:	Scale display
			:	Comment display
			:	Save image
		MPR image display	:	MPR (AXL, SAG, COR)
			:	Curved MPR
			:	Multi slice MPR
			:	Radial slice MPR
			:	SPINE Mode MPR
			:	MIP, MinIP, RaySum display $^{st 12}$
		3D image display	:	Volume rendering
			:	MIP, MinIP, RaySum display $^{ m \%12}$
			:	Mask extraction and edit
			:	Mask calculation
		CEV-CPR	:	Cruising Eye View (CEV)
			:	CPR (Straight view, Natural view)
			:	Cross-sectional area / diameter
			:	CT color display of vessels
	*12	2 MIP : Maximum Intensity Pro	jecti	on
		MinIP : Minimum Intensity Pr	oject	tion
	i			

4. Environmental requirements

Temperature		
Scanner room	:	20~28℃ (not in use:-5~33℃)
Operation room	:	10~28℃ (not in use:-5~33℃)
Degree of humidity	:	35~80%
Atmospheric pressure and	d al	titude
		700~1,060hPa, below 3,000m
Mean heat dissipation		
Scanner room	:	4,100W (3,525kcal/h)
Operation room	:	380W (327kcal/h)
Standard installation space	e	
		26 m

- % In the service environment, the concentration of corrosive gas must be 0.1ppm or less and salt damage must be 0.02mg/cm² or less.
- %~ The measurement conditions of mean heat dissipation are 240 scans/hour with 120kV, 400mA and continuous 40 scans x 0.5 sec.

5. Power supply facility

Mains voltage	:	3phase 380VAC/400VA
Mains frequency	:	50/60Hz
Power supply capacity	:	100kVA
Grounding resistance	:	10Ω or less

6. Outside dimension and mass

Name of component	Width	Depth	Height	Mass
	(mm)	(mm)	(mm)	(kg)
Scanner gantry	2,350	943	2,000	2,220
Patient table	650	2803	490~	500
(CT-WT-22/23)			970	
Operator's console	421	745	606	73.4
(Main unit)				







No.	Unit	Mass (kg)
1	Scanner gantry	2,220
2	Patient table	500
	(CT-WT-22/23)	
3	Operator's console	73.4
	(Main unit)	

Power requirements

3-phase 380/400V, 100kVA		
Power supply load regulation		
: Within 5%		
10Ω or less		
W1,200×H600mm (Lead equivalent :		
2mmPb)		
Window center height : FL+1,250mm		

.....

Air-condition requirements

Room	Heat dissipation	Temperature range	Humidity range
	W (kcal/h)	(not in use)	
Scanner room	4,100 (3,525)	20~28℃ (-5~33℃)	- 35~80%RH
Operation room	380 (327)	10~28℃ (-5~33℃)	

Specifications and physical appearance may be changed without prior notice.

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