

NeuViz Prime Product Datasheet

NEUSOFT MEDICAL SYSTEMS CO.,LTD



NeuViz Prime - Detailed Specifications:

1. Gantry	
Aperture	72cm
Scan FOV	Large: 500mm±2mm
	Medium: 330mm±2mm
	Small: 250mm±2mm
Tilt	±30°
Scan speed (360°)	0.259s(option), 0.32s, 0.374s, 0.4s, 0.5s,
	0.6s, 0.8s, 1.0s, 1.5s, 2.0s
Partial Rotation Time (240°)	0.17s(option), 0.21s, 0.24s, 0.26s, 0.32s, 0.3
	9s, 0.52s, 0.65s, 0.97s, 1.29s
Temporal Resolution	25ms
Focus-to-isocenter distance	570mm
Focus-to-detector distance	1040mm
	This screen locates at the top center of the front
	gantry. All those information will display including
Information Display System	patient information, ECG signal, and current system
	status, even the entertaining graphics which can
	amuse the patient and put them at ease.
Operation Panel	4 sets in both front and back sides of gantry
	5 laser light localizers
	The accuracy of the external laser light localizer is
Laser Light	±2mm.
	The accuracy of the internal laser light localizer is
	±2mm.
2. Data Acquisition System	I
Max. Number of slices/rotation	128
Number of detector rows	64
Number of detector elements	672×64
Total Channels per Slice	1344
Max. Number of	4640
projections/rotation	
Detector type	Solid-state GOS ceramic

3. X-ray Tube Assembly	
Tube Anode Heat Storage	Unlimited (Effective anode heat content 30MHU)
Capacity	
Max. Cooling Rate	20kW (1696 kHU/min)
Cooling System	Oil
Focal Spot Size	1.1mm × 1.2mm (Large)
	0.6mm × 0.7mm(Small)
	0.4mm ×0.7mm(Extra small)
4. Filter System	
Equivalent	Total filtration:
	Min. 4.8mm Al equivalent at 140kV
Beam Limiting Device	Equivalent to 3.90mm Al
5. Generator	
Max. Power	100kW
Generator Type	High frequency
Tube current range	10mA ~ 833mA
Tube voltage	60kV、70kV、80kV、100kV、120kV、140kV
6. Patient Table	
Max. Table load	205kg/452 lbs;
	300kg/661 lbs (Option)
Horizontal motion speed	0.375mm/s-464mm/s
Vertical movement range	430mm-970mm (from cradle bottom to ground)
Vertical motion speed	9mm/s- 15mm/s
Couch horizontal movement range	0-1770mm
Position Accuracy	±0.25mm
7. Host Computer System	
The host computer workplace provides	an intelligent and reliable workflow for data
acquisition, image reconstruction, and	routine post processing at the CT scanner.
CPU	Host: 4 Core, 3.6GHz
	Recon: 8 Core, 3.7GHz
RAM storage	≥144GB



Image storage	≥7 TB ; 1,920,000 512 x 512 Images
Dual Monitors	24 inches
	1920 x 1200 Resolution
Additional Storage	CD-R Drive: 700 MB CD Media (1,100 Images)
	DVD DICOM Drive: 4.7 GB DVD Media (8,400
	Images)
DICOM Viewer	Included on each CD or DVD;
	Automatically started on the viewer's PC

8. AVW Workplace System

AVW workplace provides the unique advantage of an efficient multi-modality diagnostic workflow at a single workplace. It manages the clinical diagnostic workflow anywhere within the clinical environment.

CPU	6 Core, 3.3GHz
RAM Storage	≥16GB
Hard Disk	≥1 TB (1,920,000 512 x 512 Images or 520,000
	1,024 x 1,024 Images)
Standard Monitor	24 inches
	1920 x 1200 Resolution
Dual Monitor***	AVW supports dual monitors
Additional Storage	CD-R 700 MB
	1,100 Images
	DVD DICOM Drive 4.7 GB DVD Media
	8,400 Images
DICOM Viewer	Included on each CD;
	Automatically started on the viewer's PC
9. System Performance	

Surview	
Surview Acquisition Modes	2 x0.625
Scannable Range	1650mm
Scan width	500mm
Views	A.P, Lateral, Dual
Real-Time surview	Yes
Axial Acquisition	
Axial Acquisition Modes	128x0.625、64x0.625、32x0.625、16x0.625、



	8x0.625、2x0.625
Slice Thickness	0.625mm、1.25mm、2.5mm、5mm、10mm
Scannable Range	1750mm
Spiral Acquisition	
Spiral Acquisition Modes	128x0.625, 64x0.625, 32x0.625, 16x0.625,
	16x0.3125(iHD option), 8x0.625
Slice Thickness	0.4mm (iHD option), 0.625mm, 0.8mm, 1mm,
	1.25mm, 1.5mm, 2.0mm, 3.0mm, 4.0mm, 5.0mm,
	6mm, 7mm, 8mm, 9mm, 10mm
Scan Time	Max. 100s (uninterrupted)
Scannable Range	1650mm (rotation time: 1s, pitch: 1, collimation:
	128 x 0.625mm);
	1700mm (rotation time: 1s, pitch: 1, collimation:
	64 x 0.625mm)
Pitch Range	0.13 to 1.5(continuous)
10. Image Reconstruction	
Recon FOV	50mm~500mm
Max. Recon Speed	Up to 40 images/s with 512x512 matrix
Recon Matrix	512x512、768x768、1024x1024
CT Value	-1024~3072
	Support extended -32768~32767
11. Image Quality	
High contrast resolution	
X-Y-Plane	17 lp/cm@0%MTF
	11 lp/cm@10%MTF
	7.5 lp/cm@50% MTF
Z-Plane	15 lp/cm@0% MTF
X-Y-Plane(iHD)	30 lp/cm@0% MTF
	25 lp/cm@10% MTF
	15 lp/cm@50% MTF
Z-Plane (iHD)	24 lp/cm@0% MTF
Technique	280mA, 120kV, 1s, 0.625mm

Low Contrast Resolution	
Low Contrast Resolution	4.0mm@0.3%
	3.0mm@0.5%
	2mm@1%
Image Noise	≤0.35%
Technique	Phantom: Catphan 600
	280mA, 120kV, 1s, 10mm (Large SFOV)
Uniformity of CT Value	Less than ±4HU (water CT number)
Accuracy of CT Value	Air: -1000HU±10HU
	Water: 0HU±4HU
12. Image Transfer/Networking	ng
Interface for transfer of medical images	and information using the DICOM standard.
Facilitates communication with devices	from different manufacturers.
Verification: Provider/User	
Storage: Provider/User	
Storage Commitment: User	
Query/Retrieve: Provider/User	
DICOM Print: User	
Modality Worklist: User	
MPPS: User	
DICOM structured Dose Report: Provid	er
13. Basic Applications	
2D	· Image zoom, pan, flip, rotate, batch
	Pre-set modify window width and level
	Default/Customized hot key for organ-specific
	Window setting, e.g. for soft tissue and bones
	Show image information
	Compare image series
	 Support image storage, including secondary capture, BMP, PNG, JPG, TIFF etc.
	Enhance and smooth
	· Inverse
	· Add the grid
	· Enlarge
	· Reset all
	· Save



Evaluation Tools	· ROI evaluation: rectangle, ellipse, polygon.
	irregular, circle
	· Measurement: line, angle, min. /max. /mean
	pixel value, polyline, profile, standard Deviation,
	histogram, area, volume
	Annotation: text, arrow
3D	3D multi-mode color image
	 MPR/Curved MPR with batch feature
	· SSD, MIP, MinIP, AIP, volume rendering
	Default 3D position
	Clip box and cube
	One click bone removal
	One click table removal
	 Image cutting, manual segmentation, volume
	calculation, volume compare
	Tissue measurement and calculation tool
	Save and read process results
Film	The Film application is mainly used to receive
	images, view, management, layout setting, print
	preview, print and so on:
	Customize the number of rows and columns for
	the page layout
	Support asymmetric layout
	Monochrome, color DICOM print function
	Send images to report
	 Send images to other data sources
	Show surview lines and surview image
	Allow users to set and store camera parameters
Auto Film	 Pre-stored protocols can be set to include
	 auto-filming and review images before printing.
	The operator can automatically film the study,
	immediately after each image, at the end of a
	series, or after the end of a study.
	Support "Combine Images" functionality to
	manage large number of images
	Monochrome and color DICOM print capability
	DICOM Viewer is a standalone application burned
	on aisc to neip user view CT DICOM images in
	different layouts. User can make operation and ROI



	measurements on images.
	Support multi-series layout and multi-image
	layout
	Annotate and measure
	· Zoom, pan, adjust window/level, enhance and
	smooth, etc.
	 Rotate the images by any angle
	View DICOM information
	· Cine images
Report	The Report application assists doctors to describe
	patient's disease and diagnosis. Other applications
	send the DICOM images and data information to the
	report. Doctors choose report templates or
	customized templates according to actual
	requirements, fill in information such as image
	description and diagnosis and then print.
	Create report
	· Edit report
	Confirm report
	Save report
	Manage report
	Export report
	Manage case template
	· Template management: create, delete and edit
	Support structured reports
Auto Voice	A standard set of commands for patient
	communication; before, during and after scanning
Networking	Supports 100/1000Mbps
MPR (Multi-Planar Reconstruction)	· Coronal, sagittal, axial image display
	Oblique MPR
	· CPR image
	· Batch
	CT Image Fusion: Providing fusion visualization
	of 2 CT images; providing measurement tools
Virtual Endoscopy	Provide fly-through for cavity organs such as
	colon, trachea, vessel and vertebral canal etc.
	Define fly-through path
	Manual or semi-automatic fly-through mode
	Record, save fly-through result

14. Advanced Applications	
Bolus Tracking	Through the periodic low-dose scan to track the CT value of certain ROI after countdown from contrast agent injecting, and trigger the clinical scan when the monitored CT value go into the preset CT value region. By this to avoid patients to absorb redundant ray especially in the initial period of contrast agent injection.
SAS	For Bolus tracking and Timed scan, timing process of Tracker series or 1st series of Timed scan can be triggered by the injector. After the end of PID(Post Injection Delay), the scan will begin.
Vessel Analysis	 Bone removal function: head neck, chest abdomen, lower limb, bone fragment Auto couch removal Vessel extraction and labeling, main vessels automatic naming Edit vessel centerline Vessel measurement tool: position, area, diameter, difference=(ref-charac)/ref diameter, difference=(ref-charac)/ref area
Cardiac Scan	 Prospective ECG scan Retrospective ECG scan and multi-phase reconstruction Retrospective ECG scan mA modulation ECG edit
Cardiac Viewer	 View cardiac images and provide measurement tools Provide MPR and 3D viewing Switch data between different phases Compare different phases data 4D play Display cardiac MPR images: Short axis (SA) Image, Horizontal long axis (HLA) image and Vertical long axis (VLA) image Provide oblique MPR display Define CPR
Cardiac Calcium Scoring	 Measure calcium score and display pseudo color Display vessel name, plaque number, pixel

	number, volume/area score, continuous weight
	factor score, Agatston score and mass score
	· Add vessel, delete vessel, rename and modify
	· vessel color
Coronary Analysis	Automatic cardiac extraction
	Coronary artery tree automatic extraction and
	the main vessels automatic labeling
	Coronary artery stenosis measurement
	Plaque analysis
	· 4D film
	· Report
Cardiac Function Analysis	• The CFA is a tool used to evaluate and analyze
	left ventricle.
	· It can display three cardiac MPR images: Short
	axis (SA) Image, Horizontal long axis (HLA)
	image and Vertical long axis (VLA) image.
	 It can show LV Function Results Table, LV
	 Volume Graph, VR image and Bull's-Eye Map.
	 It can switch the display between Wall
	Thickness Map, Regional Wall Thickness Map,
	and Wall Thickening Map.
	Function Results Table display the following
	values: Ejection Fraction (%), ED Volume(ml),
	ES Volume (ml), Stoke Volume (ml/beat),
	(ral) Mice condict Mass (r) DOA (range)
	(mi), Myocardial Mass (g), BSA (mm2)
Arrhythmia Handling**	The ECG signal of premature beat can be
	automatically recognized. The exposure will not start
	until the next normal cardiac cycle, which avoids the
	mistake of the acquisition in premature
	beat cycle.
CMC (Coronary Motion Clear)*	During coronary CTA, coronary artery would be
	inconsistent or have blurring in the vessel edge
	because of the insufficient temporal resolution at a
	certain time point. CMC traces and synchronizes
	coronary motion path, improving the temporal
	artery
Nerve System DSA	Diain and contract scans are subtracted to remove
	hones and clearly display vessels
	שטווכי מווע טבמווץ עושטומץ לבשטבוש.



Brain Perfusion	It is used for brain function analysis as well as for
	monitoring and planning interventional and radiation
	therapy procedures.
	 Displaying time Maximum Intensity Projection (tMIP) image;
	· AIP image;
	 Defining reference vessel and displaying the Time Density Curve (TDC):
	 Calculating and displaying Cerebral Blood Flow (CBF).
	Cerebral Blood Volume (CBV):
	• Mean transit time (MTT):
	· Time to Peak (TTP) images:
	Defining Region of Interest (ROI):
	Calculating ROI average value of following
	parameters:
	CBF: Cerebral Blood Flow
	CBV: Cerebral Blood Volume
	· MTT: Mean Transit Time
	• TTP: Time to Peak
Body Perfusion	It is used for organ and tumor function analysis as
	5
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	 well as for monitoring and planning interventional and radiation therapy procedures. Organ protocol displays following: tMIP: time Maximum Intensity Projection AIP image CBF: Cerebral Blood Flow TTP: Time to Peak HAP: Hepatic Artery Perfusion HPP: Hepatic Portal Perfusion HPI Hepatic Portal Perfusion Index
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	PS: Permeability Surface
Lung Density Analysis	Both lungs are extracted. 3D image of the left and
	right lungs and the trachea are displayed.
	The volume of emphysema, left lung, right lung and
	trachea are calculated.
	The percentage of emphysema volume is calculated.
Lung Nodule Analysis	Lung Nodule Analysis segments, views lesions and
	calculates lesion information, including Volume, Avg,
	Max.Z Diam, Volume Double Time, Location, Shape,
Dentel Anglasia	Border and follow-up.
Dental Analysis	Being related to implantation surgery, panoramic
	slices and paraxial sections of the mandible and the
	The presedure consists of the following stone:
	Defining percention views
	Defining panoramic views.
	Defining sectional planes.
	Filming the reference, panoramic and sectional images in true size
MAR+**	MAP L is the most advanced patented metal artifact
	reduction algorithm recon post processing
	technology.
	It removes the artifact caused by metal or high CT
	value.
Virtual Colonoscopy	It enables real-time virtual 3D colonic lumen viewing
	and is used for noninvasive visualization and
	quantitative assessment of colon polyps.
	It auto-segments colon, extracts colon centerline
	and edits segmentation result and centerline.
Tumor Evaluation	Tumor assessment automatically segments, views
	lesions and calculates lesion information, including
	RECIST Diameter, WHO Area, and Lesion Volume,
	etc. and follow-up.
Fat Analysis*	The Fat Analysis application is used to analyze
	abdominal fat, segment the subcutaneous fat and
	visceral rat. I ne area of subcutaneous rat, visceral
Price Imaging (Dual Enorgy Soon	fat and outer circumference, etc. are calculated.
end Beconstruction *	Dual energy is designed to offer spectral imaging by
and Reconstruction) *	to morphology based on different meterials
Prism Viewer (Dual Energy	to morphology based on different materials.
FIISH VIEWER (Dual Energy	Dual energy post processing application which is



Viewer)*	available on AVW workstation. Providing dual
	energy images visualization and measurement tools:
	Automatic best CNR selection;
	 Multi-material separation such as calcium,
	iodine and water;
	 Mono energy monochromatic image;
	 Virtual non-contrast image etc.
CCT Scan **	Continuous CT (CCT) is a scanning mode that allows the physician to perform extended, low-dose scans while performing a biopsy. The scan can be controlled by pressing the foot-pedal switch in the scanning room or on the CT Control Box. The resulting images display on a remote monitor in the scanning room, providing near-real-time visual feedback during the biopsy. There three modes: CCT single mode, CCT continuous mode and CCT fluoro mode.
AVW Ready for Reading ***	The specified image data can be preprocessed before the user review them. Its functions (e.g. bone removal, couch removal, vessel extraction etc.) are realized by protocol settings.
Bone Density ***	Bone density is an important indicator of bone mass, Which could reflect the degree of osteoporosis and be an important basis for predicting the risk of fracture. Bone Density Analysis application allows measurement of bone mineral density, providing a powerful tool for the diagnosis of clinical osteoporosis and determination of fracture healing.
Lung Nodules ROI ***	Automatic extraction of lung nodules show the 3D shape, volume, and the edges of the nodules. The magnified visualization of the 3D structures of the nodules clearly displays the neighboring nodules, as well as the relationship between the nodules, the blood vessels and the pleura. The follow-up function allows closer observation of the nodule changes to help determine the nature of the nodule.
ThreeDPrint ***	The ThreeDPrint software package is used to import
	the segmentation results data from an application to
	the ThreeDPrint application. It uses algorithms to
	convert the segmentation results data into grid data
	and then displays it on the interface. The user can

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	perform various operations on the grid data which
	allows editing and optimization to obtain a
	high-quality grid data model. This grid data model is
	then saved in a file format the 3D printer can
	recognize and finally be printed out in 3D.
BoneMeasurement ***	The BoneMeasurement Software provides femur
	head segmentation and various bone data
	measurement functions, allowing you to observe
	bone growth. It also can send the measurement
	results to reports.
Liver Analysis + ***	The Liver Analysis+ software package assists
	doctors in analyzing liver and its lesion blood supply
	system. The main functions include liver
	segmentation, liver section, extraction of liver
	lesions, extraction of hepatic artery, hepatic vein,
	portal vein, multi-phase image fusion, saving and
	transmitting of processing
	results.
TAVR ***	Transcatheter aortic valve replacement surgery plan
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TAVR *** Myocardial Perfusion *** CFA+ ***	Transcatheter aortic valve replacement surgery plan is helpful to evaluate the preoperative aortic valve status and postoperative outcome. It provides comprehensive measurement templates, including size, area, angle, circumference and length, as well as automatic segmentation and positioning of aortic and aortic root centerline for assessment and surgical approach. CT Myocardial Perfusion enables visualization and analysis of perfusion deficits in the myocardium. Automated segmentation and registration, along with comparison layouts for rest and stress studies are available in a streamlined workflow. CFA+ segments the cardiac tissue automatically,
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TAVR *** Myocardial Perfusion *** CFA+ *** WholeHeartSeg ***	Transcatheter aortic valve replacement surgery plan is helpful to evaluate the preoperative aortic valve status and postoperative outcome. It provides comprehensive measurement templates, including size, area, angle, circumference and length, as well as automatic segmentation and positioning of aortic and aortic root centerline for assessment and surgical approach. CT Myocardial Perfusion enables visualization and analysis of perfusion deficits in the myocardium. Automated segmentation and registration, along with comparison layouts for rest and stress studies are available in a streamlined workflow. CFA+ segments the cardiac tissue automatically, including left ventricle, right ventricle, myocardium, left atrium, right atrium and ascending aorta. WholeHeartSeg is a specialized application used for

	provides tissue segmentation for the entire heart,	
	including the coronary artery, left ventricle, right	
	ventricle, myocardium, left atrium, right atrium, and	
	aorta. It also provides heart function calculation,	
	coronary stenosis measurement, and other analysis	
	functions, which serve as references for the	
	assessment of cardiovascular diseases.	
Super Fusion ***	The Super Fusion Software fuses the images of a	
	patient taken with different devices. This gives	
	physicians a comprehensive overview of all imaging	
	results and helps in diagnosis.	
15. Prime Technologies	I	
O-Dose	O-Dose is a low dose technology based on different patient body sizes, anatomy, tube exposure angles and scanning positions.	
	It automatically recommends a proper mAs with the	
	lowest possible dose and guarantees image quality.	
	radiation dose based on different organs and contrast scan.	
ClearView	ClearView is a brand-new raw-data based iterative	
	reconstruction algorithm.	
	It eliminates noise accompanied by ultra-low dose	
iHD	imaging and acquires outstanding image quality.	
	improves the spatial resolution up to 30lp/cm @0% MTF.	
* Optional feature for Host workplace and AVW workplace		
** Optional feature for Host workplace only		
*** Optional feature for AVW workplace only		
16. Installation		
Outline Dimensions & Weight	Outline Dimensions & Weight	
Gantry dimensions	2198mm (L) x 938mm (W) x 1910mm (H)	
Gantry weight	1800kg	
Gantry package	2370mm (L) x 1030mm (W) x 2250mm (H)	
Dimensions		
Couch dimensions	2540mm (L) x 643mm (W) x 1055mm (H)	
	·	



Couch weight	360kg	
Couch package dimensions	2770mmmm (L) x 970mm (W) x 1230mm (H)	
Console dimensions	600mm (L) x 800mm (W) x 675mm (H)	
Power Supply Requirements		
Rated power	125kVA	
Input voltage	380/400VAC	
	3-phase 5-line	
	3-phase 4-line(Export is equipped with isolate	
	transformer), power supply from below	
	options:190/200/208/220/230/240/380/400/415/	
	440/460/480VAC)	
Voltage variation	±10%	
3-phase unbalance	≤5%	
Frequency	50/60Hz±1Hz	
Ground resistance	4Ω(specialized grounding)	
	$1\Omega(\text{connected to a grounding system})$	
Min. Area of scanning room	5550mm×3650mm	
Min. Area of operating room	1700mm×3650mm	
Operating Room		
Recommended room size	Operating room: 3000mm×4600mm	
	Scanning room: 6000mm×4600mm	
Min. Height of ceiling	2010mm	
Temperature of scan room	18℃~24℃	
Temperature of operation room	18℃~28℃	
Humidity of scan room	30%~60%(no condensation)	
Humidity of operation room	20%~80%(no condensation)	
Atmospheric Pressure	70kPa~106kPa	
Temperature of transportation and	-20°C~+55°C	
Storage		
Humidity of transportation and	10%~90%, no-condensing	
Storage		
Running noise	Less than 70dB (A-weighted)	
Other Parts		
High pressure injector	DDI-200C (Single)	



	DDI-400C(Double)
	MEDRAD Stellant SX (single tube)
	MEDRAD Stellant D (double tube)
	Ulrich XD 2000-2004series
	Nemoto Smart Shot Alpha A60 (single tube)
	HuaYao Medical APO100(single tube)
	HuaYao Medical APO200(double tube)
	Mallinckrodt Optivantage
Isolation transformer	37kVA
UPS for Console	2kVA

Specifications are subject to change without notice.