

Archiv/WEB & Backup Server Raid 5 up to 128 Terabyte ONLINE

Vers. 302.04.07



Each of VEPROs Power Servers offers storage space expandable to 128 Terabytes for image/film archiving. Real time access "image on demand" using highly reliable RAID technology is combined with a full redundant Backup Server guaranteeing the most secure and economic storage solution for every kind of patient data.

Power Server

- High performance Server – Dual Processor – guarantees immediate data retrieval even under the most extreme network conditions
- 19" Technology (19" cabinet included if RAID > 1 TB)
- Mirrored system drive (Ultra SCSI)
- RAID 5 – Ultra SCSI
- Modem 56 Kbit, ISDN 128 Kbit
- Floppy-/DVD-/CD-Reader
- 10/100/1000 Mbit network controller (2 x)
- 2 Gbit Fibre channel
- Redundant power supply – 2 x 700 W
- 17" TFT Color Monitor, Keyboard, Mouse

WEB Server

- WEB Server (embedded)
- Clinic wide information access via existing PC infrastructure
- One user interface for all images and medical records for the entire enterprise. Uses the same DICOM Viewer (GUI) as on Diagnosis Workstations (including standard processing tools)
- Alternatively usage of JAVA Viewer – for Hardware and Operating System independence
- No need of any software installation on local PC's. Existing PC configuration remains untouched
- Different authorization levels for data access

Database/Operating System (OS)

- P-SQL 2000 – Database - ODBC, JDBC, ADO/OLE DB, PDAC – eliminates need of database administrator
- WINDOWS 2003 Server (optional: Linux) up to 1000 User

Archive Management

- Unlimited archives, trays and presentation worklists configurable – ONLINE up to 128 TB per Server
- Archives as FIFO (first in first out) for temporarily storage or with long term migration on "write once" media, like CD, DVD or other media library available
- Definition and search in each archive with different keywords
- CD-/DVD-Robot and Jukebox support

Software *1

- DICOM Archive Printer (10 user)
- MEDIMAGE Basis SW-package – Archiving, Retrieval, Viewing, Processing, Import, Export, Printing, HIS/RIS Interface
- Image Distribution Server (WEB)

DICOM Support *1

- DICOM SEND (SCP) Server
- DICOM PRINT (SCU) Server
- Optional:*
- DICOM STORE (SCP)
- DICOM QUERY/RETRIEVE (SCP)
- DICOM STORAGE COMMITMENT (SCP)

Scaleable Storage solutions

- Scaleable storage capacity from 0,5 up to 128 TB for online data availability.

1 TB (Terabyte) is the equivalent image storage capacity:

Modality	Image compression	
	low	lossless
CT/MRI 512 x 512 - 60 IPP	2,7 Mio. studies	800.000 studies
X-Ray 2300 x 2800 - 2 IPP	350.000 studies	100.000 studies
Angio 1024 x 1024 - 12 IPP	400.000 studies	100.000 studies
Video 640 x 480 - 10 IPP (Ultrasound, Endoscopy etc.)	8,5 Mio. studies	2,8 Mio. studies
Cathlab 512 x 512 - 1500 IPP	22.000 studies	6.500 studies

* IPP = Images per Patient

Storage Options - RAID 5

- 3,0 TB Rack: 12 x 250 GB drives, redundant power supply 350 W, all components hot swap supported, Administration via WEB-GUI, OS – independent, SAN technology, 2 GB/s

Maximum Security

- The High-Speed RAID Level 5 guarantees even in case of a hard disk failure – without loss of data – continued, uninterrupted 100% data availability and a 100% data security
- Several spare hard disks per each RAID-Array - according to defined level of security
- Redundant operating system disk
- Optional Backup Server System for fast, automatic data backup and server redundancy
- UPS – Uninterrupted Power Supply guarantees failure free operation, even in case of electrical power loss
- Permanent monitoring and early error recognition
- Automated Fax/E-Mail information to the next VEPRO Service Center allows earliest preventive action and supports almost 100% system availability

*1 = only available under WINDOWS OS