

### **PROPAXX**

# Module description Human





### 1 Packages

Article-No.	Description
4320-0-0102	PROPAXX Diagnostic SU (Single user)
	1x PROPAXX Server including:
	1x PROPAXX US node
	1x PROPAXX CR/DR node
	1x PROPAXX Viewer package Diagnostic
	Contains PROPAXX Server software and one PROPAXX Viewer package Diagnostic. Both PROPAXX components are installed on a single workstation and can only be used on the same PC. The PROPAXX Server functions can be extended with Server modules.
4320-0-0104	PROPAXX Xtensive SU (Single user)
	1x PROPAXX Server including:
	• 1x PROPAXX US node
	1x PROPAXX CR/DR node
	1x PROPAXX Viewer package Xtensive
	Contains PROPAXX Server software and one PROPAXX Viewer package Xtensive. Both PROPAXX components are installed on a single workstation and can only be used on the same PC. The PROPAXX Server functions can be extended with Server modules.
4320-0-0030	PROPAXX Net A PROPAXX Single User System becomes network-compatible with PROPAXX Net. This allows access to the PROPAXX Server from any viewing station within the local network. One Viewer can be installed on any number of PCs. However, the number of Viewers that can be used at one time depends on the number of purchased licenses.
4320-0-0001	PROPAXX Viewing MU (Multi User)
	Contains an additional PROPAXX Viewer package Viewing license for a multi user
	installation.
	Precondition: PROPAXX Single User and PROPAXX Net must be installed already.
4320-0-0002	PROPAXX Diagnostic MU (Multi User)
	Contains an additional PROPAXX Viewer package Diagnostic license for a multi user
	installation.
	Precondition: PROPAXX Single User and PROPAXX Net must be installed already.
4320-0-0004	PROPAXX Xtensive MU (Multi User)
	Contains an additional PROPAXX Viewer package Xtensive license for a multi user
	installation.
	Precondition: PROPAXX Single User and PROPAXX Net must be installed already.
4320-0-0040	PROPAXX US node
	Additional node to receive DICOM images from an additional US modality.
4320-0-0041	PROPAXX CR/DR node
	Additional node to receive DICOM images from an additional CR or DR modality.

 $\blacksquare$  = included;  $\square$  = optionally; - = not included

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#### **PROPAXX Server modules:**

4320-0-0031	Compression
	Allows the compression of image data.
4320-0-0033	Data Migration
	Allows the transfer of images from another DICOM-compatible PACS via DICOM Query.
	The external PACS must support DICOM Query as Server (SCP).
4320-0-0034	PROMIS Migration
	Allows the transfer of images (incl. annotations and measurements) from PROMIS.

## 2 System configurations

System features	Multi user	Single user
Number of possible Viewers	unlimited	1
Number of different Viewer packages	unlimited	1
Network compatibility	•	-
"Floating-License(s)", independent from PC	•	-

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# 3 Viewer specification

#### 3.1 Overview

	View	er pack	ages
Functions:	Viewing	Diagnostics	Xtensive
Basic functions			
Interactive histogram	-		
Measurement functions	-		
Full screen viewing of an image	-		
Filtering	-		
Patient CD	-		
E-mail sending	-		
Diagnostic findings	-		
Keywording	-		
Work queues	-		
Crop function	-		
Creation of X-ray jobs	-		
Ruler / Grid	-		
Region Windowing	-	ı	
Look-up-Tables	-	-	
Densitogram	-	ı	
Multi Monitor	-	-	
Sync mode	-	-	
Image data statistics	-	-	
Alignment	-	-	
Interface to an orthopedic planning software	-	1	
DICOM Query	-	-	
DICOM Send	-	-	
DICOM Print	-	-	

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#### 3.2 Basic functions

	View	er pack	ages
Basic functions:	Viewing	Diagnostics	Xtensive
Language selection	•	_	
Simple selection of language, when logging-on			
<ul> <li>Image import/export</li> <li>16-, 12-, 10- and 8-bit support for DICOM images (CR, DX, OT, US incl. sequences)</li> <li>Opens JPG-, BMP-, TIFF-, GIF- and PNG-Images</li> <li>Image export as JPG-, BMP-, TIFF-, GIF- and PNG-Image</li> <li>Image import of JPG-, BMP-, TIFF-, GIF- and PNG-Images in database</li> <li>Direct image transfer from CONAXX System</li> <li>Image import/receiving via DICOM Store (SCP)</li> </ul>	•	•	•
Patient Administration			
<ul> <li>Access to all patients and their images in the system</li> <li>Search function by means of patient data or image characteristics</li> <li>Many image export functions can be used in patient administration without viewing all images</li> </ul>	•	•	•
Inversion, rotate/mirror			
Magnifier / zoom / zoom-visualization	•		•
Image comments, DICOM Header view	•		
<ul> <li>Multi-level windowing function</li> <li>Interactive by means of mouse</li> <li>View of grayscale spreading of an image</li> <li>Definition and user-related filing of favorite histogram settings</li> </ul>	•	•	•
Panning			
If image is larger or zoomed larger than visible area (tile) of the light box in which it is opened, image parts from outside the visible area can be moved into the visible window.	•	•	•
Annotations			
<ul> <li>As text</li> <li>Geometrical shapes</li> <li>L/R-markers</li> <li>Annotations and L/R-markers can later be moved and edited</li> </ul>	•	•	•
Light box			
<ul><li>Parallel view of several images</li><li>Moving of images within viewing area</li></ul>	-	•	•
<ul> <li>GDT/BDT/EMR-Interface</li> <li>Allows to open images of a patient from an external patient data management system by means of a GDT/BDT/EMR message</li> </ul>	•	•	•

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#### 3.3 Further functions

	View	er pack	ages
Further functions:	Viewing	Diagnostics	Xtensive
Interactive histogram	_		
Enables interactive adjustment of windowing features and immediate use			
<ul> <li>Measurement functions</li> <li>distance, angle, circle, HD-angle (hip-dysplasia-angle), PennHIP, angel between two lines, Cardiothoracic Ratio, Tibial-Plateau-Angel (TPA), Vertebral-Heart-Score (VHS)</li> <li>Calibration</li> <li>Measuring unit can be configured</li> </ul>	-	•	•
Full screen viewing of an image	+_	_	_
Filtering	+ -		-
Provides a predefined number of different filters for image optimization	-	•	•
Patient CD			
<ul> <li>Burning of a patient-CD with images of one or more patients and integrated viewer for easy viewing of these DICOM images on any PC.</li> <li>Importing of images from patient CDs into PROPAXX</li> <li>Creation of Patient CDs on a Rimage CD Robot</li> <li>Export of Patient CD to USB flash drive or hard drive</li> </ul>	-	•	•
E-mail sending			
Automatic use of locally installed e-mail client (e.g. automatic start of Outlook)	-		•
Formats: JPG, TIFF, BMP, GIF and PNG can be send			
<ul> <li>Diagnostic findings</li> <li>Creation and filing of diagnostic findings for a patient</li> <li>Use of an editable template that can work with text modules, too.</li> <li>Possibility of exporting and emailing of filed findings</li> </ul>	-	•	•
Keywording			
<ul> <li>Marking of images with keywords</li> <li>Creation of new keywords</li> <li>Image search according to defined keywords</li> </ul>	-	•	•
Work queues			
<ul> <li>Allows bundling of several patients in one work queue</li> <li>Comfortable possibility for sequential processing of patients in one queue</li> </ul>	-	•	•
Crop function	-		
Creation of X-ray jobs	1		
<ul> <li>Allows the creation of CONAXX X-ray jobs directly in PROPAXX</li> <li>Selection of body part, fine part, view position or via QuickJobs</li> <li>Supports a requests to repeat an exposure</li> </ul>	-	-	-
Ruler / Grid	1		
<ul> <li>Possibility to show ruler and grid lines</li> <li>Scale of ruler can be configured</li> <li>Scale and distance between grid lines can be configured</li> </ul>	-	•	•

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# **PROPAXX**Module description



	Vi	ewer pac	ckages
Further functions:	Viewina	Diagnostics	Xtensive
Region Windowing			
<ul> <li>Other than the standard windowing function, where the window leveling is an immediately to the whole image, the user of the region windowing function of an area (region) of the image where contrast is optimized first. The settings of are later applied to the complete image.</li> </ul>	defines -	-	•
Look-up-Tables			
<ul> <li>Provides a selection of look-up-tables</li> <li>Enables alternative display modes for black/white images, e.g. false color rend</li> </ul>	ering -	-	
Densitogram	_		
• Enables creation of a grayscale profile through a predefined cross section of a	n image.		-
<ul> <li>Multi Monitor</li> <li>Enables creation of up to 8 additional light boxes, which can be moved to add monitors independently from the primary light box</li> <li>Each light box can be divided in 9 sections.</li> </ul>	ditional _	-	-
Sync mode			
• Enables synchronized use of the tools "windowing", "moving", "zooming" on n images (except zoom function of the mouse wheel).	nultiple -	-	•
Image data statistics			
• Enables statistical analysis of image data/grayscale data of image parts or comimages	plete -	-	-
Alignment			
• Enables alignment of images in neighboring tiles at one central point	_	_	
Interface to an orthopedic planning software			
• Transfers images directly into the orthopedic planning software and imports t finally planned image back into PROPAXX	he -	-	
DICOM Query	_		
Enables queries from a predefined external PACS via DICOM Query interface			_
DICOM Send	_	_	
Enables sending of one or more images via DICOM Send communication			
DICOM Print			
<ul> <li>Allows printing images on a DICOM imager/printer</li> <li>Can be configured with different printers and user preferences</li> </ul>	-	-	•

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### 4 Server functions

Status monitor	
Shows information about the number of patients and images in the system	
Shows information about currently available Viewer licenses	•
<ul> <li>Shows information about the storage locations (disk space, access rights)</li> </ul>	
Shows information about logged-in users and their workstations	
Messaging service	_
<ul> <li>Allows the sending of messages to all logged-in Viewers</li> </ul>	•
Backup and recovery	
Allows a complete backup and recovery with a graphical user interface	_
Allows a complete backup with a command line tool	-
Allows a backup of the database (without image data) with a command line tool	
User management	
Allows the administration of user accounts	•
Supports different user roles incl. different rights	
Storage location management	
Allows the administration of storage locations for image data	_
Supports unlimited number of storage locations	•
Supports the movement of image data between storage locations	

Compression	
Allows the compression of image data to save disk space	
Data Migration	_
• Allows the transfer of images from another DICOM-compatible PACS via DICOM Query	

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