

**100215 Allura Xper FD20**

<b>System Type:</b>	New
<b>Freight Terms:</b>	FOB Destination
<b>Warranty Terms:</b>	Part numbers beginning with two (2) asterisks (**) are covered by a Per Contract. All other part numbers are third (3rd) party items.
<b>Special Notations:</b>	Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date. Any rigging costs are the responsibility of the Purchaser.
<b>Additional Terms:</b>	

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1    **\*\*NNAE374**    **Allura Xper FD20 C Rel7.6 Vasc**    **1**

The Allura Xper FD20 single plane cardiovascular system is comprised of a ceiling mounted stand and digital imaging X-ray system for cardiovascular diagnostic and interventional procedures

The Allura Xper FD20 system uses an integrated single-host concept. The system is comprised of five functional building blocks: Geometry, X-ray Generation, User Interface, Image Detection, and Viewing. Each functional building block is explained in further detail.**GEOMETRYThe Allura Xper FD20 Stand**

The Allura stand consists of a ceiling-mounted C-arm. The stand has the following capability:

- The L-arm can be rotated and can be moved in longitudinal direction allowing a three-sided patient approach and total body coverage.
  - L-arm rotation around the patient table: +90, 0, -90 degrees.
  - L-arm longitudinal movement: 300 cm
  - This movement features auto-stops at the parking position, cardio/neuro position and lower peripheral position.

The Allura stand allows a very wide range of projections, including PA and AP imaging.

- In the head position (0 degrees position, L-arm parallel to patient table):
  - C-arm rotation range (degrees): 120 LAO to 185 RAO
  - C-arm angulation range (degrees): 90 CA to 90 CR
  - (Full angulation capability determined by patient position)
- In the side position (+90 / -90 degrees position, L-arm perpendicular to patient table):
  - C-arm rotation range (degrees): 90 LAO to 90 RAO
  - C-arm angulation range (degrees): 185 CA to 120 CR or 120 CA to 185 CR
  - (Full angulation capability determined by patient position)
- The stand provides fully motorized fast movements with variable and configurable maximum speed.
  - Variable C-arm rotation speed, up to 25 degrees per second
  - Variable C-arm angulation speed, up to 18 degrees per second
- L-arm rotation and longitudinal movement: motorized and manual
- C-arm depth is 90 cm
- The FD20 Dynamic Flat Detector features Xper Access which allows the flat detector to be positioned in either portrait or landscape imaging modes in 3 seconds.
- The variable source image distance between focus and Dynamic Flat Detector input screen is motorized from 86.5 to 123 cm.
- The stand features BodyGuard a capacitive sensing collision avoidance system for patient protection.

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### Patient support

The Xper Table

Patient support with flat carbon fiber tabletop

- Table top length of 319 cm, width 50 cm
- Metal-free overhang 125 cm
- Floating table-top movement of 120 cm longitudinal and 35 cm transversal range.
- Motorized height adjustment from 79 to 107 cm
- Maximum cantilever of 223 cm , for full patient coverage
- Maximum patient weight 250 kg with 25 kg of accessories plus 500 N for CPR in any longitudinal position of the table top
- Xper Geometry and Imaging Modules for exam room controls.
  - The operating modules can be attached to either side of the table.

Patient Support Accessories set

- One cerebral filter
- Three rail accessory clamps
- One IV stand
- One slow recovery foam mattress
- One Set of Arm Supports (FCV0248)
- One Set of Patient Straps (FCV0250)
- One Head Support (FCV0251)
- One Arm Support (FCV0258)
- One Table-mounted Radiation Shield
- One anti-fatigue mat with Philips logo

### X-ray Generation

The Allura Xper FD20 comprises an integrated dedicated X-ray system, micro-processor controlled Velara CFD generator based on high frequency converter technique. The user interface control of this X-ray Generator is incorporated in the Xper module, Xper Desktop Viewing Console, and the Xper on-screen displays.

The Velara CFD generator comprises:

- X-ray generator 100 kW
- Voltage range is 40 - 125 kV
- Maximum current 1250 mA at 80 kV
- Program selection
- Pulsed X-ray for pulsed fluoroscopy; 3.75, 7.5, 15 and 30 frames/s
- Pulsed X-ray for (subtracted) acquisition up to 6 frames/s for vascular applications
- Minimum exposure time of 1 ms
- Automatic kV and mA control for optimal image quality prior to run to save dose
- An X-ray depth collimator with two semi-transparent wedged filters with manual and automatic positioning
- SpectraBeam filtering of low energy radiation to optimize image quality and dose efficiency with MRC-GS 0407 X-ray tube.
- Grid switching at dynamic pulsed fluoroscopy

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- Xper Beam Shaping, positioning of both shutters and wedges on the Last image Hold without the need for X-ray radiation

### Fluoroscopy

- Three programmable fluoroscopy modes
  - Each mode can be set to different composition of dose rate, pulse speed, filter setting, and image processing (noise reduction, adaptive contour enhancement, and adaptive harmonization).
- Roadmap Pro (Formerly Trace Subtract Fluoroscopy)
  - A Roadmap Pro run is a vessel map an acquisition superimposed on live fluoroscopy
    - Acquisitions can be performed without losing the vessel map
  - Roadmap Pro features Smart Settings in special clinical modes that are optimized to visualize special materials such as coil and glue.
  - Automatic Motion Compensation (AMC) part of the roadmapping functionality. During roadmapping, small patient movements can lead to subtraction artifacts. These artifacts might conceal important clinical information. Automatic Motion Compensation compensates for rigid, uniform (skeletal/table) translations and is therefore very effective in interventional applications where subtraction imaging is used.
    - **Disclaimer:** AMC only corrects movement artifacts in two dimensions. Three dimensional movements such as swallowing or rotation of the head cannot be corrected.
  - Xres for vascular is a standard feature of Roadmap Pro
    - Xres is a multi-resolution spatial temporal noise reduction and edge enhancement filter
    - Xres Vascular enhances sharpness, contrast, and reduces noise in non subtracted fluoroscopy runs for vascular studies.
    - The settings for Xres can be customized with regard to the image quality.
- Xper Fluoro Storage, a grab function allows storage and archiving of both a fluoro image and the last 20 seconds of Fluoroscopy, called Xper Fluoro Storage. These fluoro images or fluoro runs can be archived as a regular exposure run.

### IMAGE DETECTION

The Allura Xper FD20 comprises the following image detection chain:

- A 30 cm by 40 cm FD20 Dynamic Flat Detector with eight imaging modes.
  - 30 x 38, 30 x 30, 26 x 26, 22 x 22, 19 x 19, 16 x 16, 13.5 x 13.5, and 11 x 11 cm
- The digital output of the FD20 flat detector is 2k\*2.5k image matrix at 14 bits depth for the largest mode
- The flat detector subsystem features Xper Access, the detector can be rotated over 90 degrees, it moves from portrait to landscape back & forth
- DQE (Detective Quantum Efficiency) >73 %
- The pixel pitch: 154 x 154 microns

### Viewing

The Allura Xper FD20 comprises the following components in order to display the clinical images in the control and examination room:

### Displays

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### Examination Room

Two 18-inch monochrome LCD monitors designed for medical applications. The first display is used for viewing live images. The second display is the reference monitor.

- 18-inch monochrome TFT-LCD display with a 160 degree viewing angle.
- Native format 1280x1024 SXGA
- 10-bit gray-scale resolution with gray-scale correction

These monitors are not delivered when FlexVision XL, EP Cockpit or EP Cockpit XL is selected.

The monitor ceiling suspension in the exam room can be configured to accommodate 2, 3, 4, 6 or 8 18-inch LCD monitors and includes motorized height adjustment. The height-adjust feature is dependent on the room ceiling height. When FlexVision XL, EP Cockpit or EP Cockpit XL is selected the monitor ceiling suspension is configured for one of those options.

- The first reference channel is for the display of reference images or runs, controlled by infrared remote-control Xper Viewpad.
- The On-Screen Display provides status information on stand rotation, angulation, display of system messages, X-ray tube load status, selected fluoroscopy mode, selected detector Field of View, and both the rate and accumulation of the dose area product and skin dose. For cardiac applications, the system also monitors and displays body zone specific Air Kerma data (10 zones).

### Control Room

One 19-inch color LCD monitor used as a data monitor.

- 19-inch color TFT-LCD display
- Native format 1280x1024 SXGA

One 18-inch monochrome LCD monitor (Xper review monitor) designed for medical applications.

- 18-inch monochrome TFT-LCD display
- Native format 1280x1024 SXGA
- 10-bit gray-scale resolution with gray-scale correction

These control room monitors are not delivered when EP Cockpit or EP Cockpit XL is selected. The Graphical User Interface on the monochrome monitor has the following features and functions:

- Step through file, run, or images
- File, and run overview
- Contrast, brightness, and edge enhancement settings
- Flagging of runs or images for transfer
- Applying text annotation in images
- Optional DICOM printing
- Executing Quantitative Analysis Packages if available
- Subtraction functionality

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- Zoom/pan functionality
- Electronic shutters
- Video invert
- View trace, stacking of images
- Landmarking

### Acquisition

The acquisition segment coordinates the parameters for automatic exposure control. The program is selected via the Xper module or Xper Desktop Console.

Exposure techniques:

- Serial imaging for DA and DSA with automatic exposure setting
- Single shot mode
- Acquisition frame rates: 0.5 to 6 images/s at 2048 x 2048, 12-bit matrix

The Allura Xper FD20 offers a storage capacity of:

- 50,000 images at matrix size of 1024 x 1024
- 12,500 images at matrix size of 2048 x 2048
- Maximum number of examinations is 999, with no limit to the maximum number of images per examination

### USER INTERFACE

Xper is comprised of three elements: 1) Xper Settings, which customizes the system to each user preferred settings. 2) Xper User Interface 3) Xper Integration, which makes advanced integration functionality available such as DICOM Query / Retrieve, background archiving, and Xper Fluoro Storage.

The Xper User Interface uses User Interface modules in the Examination Room with On-Screen Display.

The On-Screen Display is positioned on the left side of the reference monitor. The following system information is displayed

- X-ray indicator and X-ray tube temperature condition
- Gantry position in rotation, angulation, and Source Image Distance
- Detector field size display
- General System messages
- Selected Frame speed
- Fluoroscopy mode
- Integrated fluoroscopy time
- Skin Dose and Dose Area Product
- Stopwatch

The Xper ViewPad contains the preprogrammed function settings. The system is provides with two Xper Viewpads. The following functions are provided:

- Run and image selection
- File and run cycle
- File overview

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- Store to Reference image file
- Copy image to photo file
- Digital (fixed) zoom and panning
- Recall reference images
- Laser pointer, intended to point at regions of interest on the imaging monitors
  - LED indication of laser pointer on/off and battery low
- Subtraction on/off
- Remasking
- Landmarking

### Remote Intercom

The separate intercom which is connected independently from the system that allows separate placement of the intercom at the preferred working position in the control room and examination room.

### Table Side Modules

Two Xper Modules are provided for use. The first Xper Module is mounted tableside. The Second Xper Module (NCVA778) is located in the control room. These modules use a touch screen, which can be operated when draped with sterile covers. The Xper Module contains the following functionality:

- Acquisition settings
- Selection of Xper Setting allows the user to set frame rates and X-ray generation settings applicable for the type of the preferred intervention
- Image Processing

The Xper Geometry T.S.O. module can be positioned on all sides of the patient table, while keeping the button operation intuitive. The Xper Geometry T.S.O. provides the following functionality:

- Tabletop float and table height position
- Source Image Distance selection
- Longitudinal movement of the Gantry along the ceiling
- Gantry rotation in an axis perpendicular to the ceiling
- Store and recall of two scratch gantry positions including SID
- Emergency stop button

The Xper Imaging T.S.O. module can also be positioned on three sides of the patient table, while keeping the button operation intuitive. The Xper Imaging T.S.O. provides the following functionality:

- Fluoroscopy Flavor selection defined per Xper Setting
- Shutters and Wedge positioning
- Xper Fluoro Storage and Grab
- Selection of the Detector field size
- Shutter positioning
- Reset of the fluoroscopy buzzer

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Pan Handle

- The Pan Handle is an extension of the control facility for floating movements of the tabletop.

Control Room

The control room comprises a Xper Review Module, Xper Desktop Module, a keyboard, and a mouse. The Xper Review Module offers the basic functions for review. The Xper Review Module contains the following functionality:

- Power on/off
- Tagarno wheel to control the review of a patient file
- File and run cycle
- Contrast, Brightness, and Edge enhancement settings
- File, Run, Image stepping and run and file overview
- Delete run
- Image invert and digital zoom
- Reset fluoroscopy timer and enable/disable X-ray

System information is displayed on the bottom of the data monitor:

- Stopwatch and Time
- System guidance information
- Dose Area Product (DAP) and Skin Dose, and accumulative dose
- Frame speed settings, fluoroscopy mode, and accumulated fluoroscopy time
- Exposure and fluoroscopy settings as Voltage (kV), Current (mA) and pulse time (ms)
- Geometry information as rotation, angulation, and SID

### Scheduling

The patients can be listed and selected per date, physician, and intervention type. Previous DICOM patient studies can be uploaded with the DICOM Query Retrieve function in the Allura system.

Patient management protocols are flexible and allow for multiple studies to be selected under one patient identification number. This means that new studies can be appended to an earlier patient file. Furthermore, each study can contain multiple examinations to allow for split administrative purposes. Each examination contains multiple files, like acquisition file, reference file, and QA results file.

### Preparation

The preparation page provides the information of the room and patient preparation of each individual physician. The preparation page is customizable per Xper Setting and allows each physician to provide his own room protocols. This preparation page makes hard copies of the protocol instructions redundant.

### Acquisition

The acquisition page contains information on the current selected patient.

### Review

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The review page allows for reviewing of patients:

- Previous examination cases
- Review of other DICOM XA or DICOM SC studies

### Archive

Continuous Autopush

Continuous Autopush is an archive accelerator, which ensures that background archiving continues with minimal disruptions.

Clinical studies can be archived to a CD or a PACS. The archive process can be completely automated and customized with Xper Settings. Parameters like multiple destinations, archive formats can be selected to the individual needs and wishes for programming under the Xper Settings,

The Xper DICOM Image Interface enables the export of clinical images to PACS. The export formats are based on DICOM 3.0 protocols. The system exports clinical studies in Cardiac DICOM XA Multi-Frame or DICOM Secondary Capture formats.

- The export format is configurable in 512x512, 1024x1024 2048 x 2048 (unprocessed) matrix.
- The examination can be sent to multiple destinations for archiving and reviewing purposes.
- The Xper DICOM Image Interface provides DICOM Storage and DICOM Storage Commitment Services.
- The DICOM Query/Retrieve function allows older DICOM XA MF and DICOM SC studies to be uploaded in the system. Furthermore, additional information can be appended to a study, while keeping the patient identification the same.

### Remote Service

Access to the system from a Remote location is possible via network or modem connection. Remote access to a system can shorten the time needed for e.g. changing system settings or problem diagnosis.

### Clinical Education Program for the Allura Xper System

#### Essentials OffSite Education:

Philips will provide up to two (2) Cardiovascular Technologists, Registered Technologists Registered Nurses, or other system operator as selected by customer, with in-depth didactic, tutorial, and hands-on training covering basic functionality and work-flow of the cardiovascular imaging system. In order to provide trainees with the ability to apply all fundamental functioning on their system, and to achieve maximum effectiveness, this class should be attended no earlier than two weeks prior to system installation. This twenty-eight (28) hour class is located in Cleveland, Ohio, and is scheduled based on your equipment configuration and availability. Due to program updates, the number of class hours is subject to change without notice. Customer will be notified of current, total class hours at the time of registration. This class is a prerequisite to your equipment handover OnSite Education. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. **Travel and lodging are not included, but may be purchased through Philips. It is highly recommended that 989801292102 (CV Full Travel Pkg OffSite) is purchased with all OffSite courses**

#### Handover OnSite Education:



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		<p>Philips Education Specialists will provide twenty-eight (28) hours of education for up to four (4) students, selected by customer, including technologists from night/weekend shifts if necessary. Students should attend all 28 hours, and must include the two OffSite education attendees. CEU credits may be available for each participant that meets the guidelines provided by Philips. Please refer to guidelines for more information. Note: Site must be patient-ready. Philips personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. <b>It is highly recommended for systems that are fully loaded or for customers with a large number of staff members to also purchase 989801292099 (CV Add OnSite Clin Educ 24h).</b></p> <p>The above education entitlements expire one (1) year from equipment delivery date. Ref# 106107318-091207</p>	
2	<b>**NCVA014</b>	<b>Maximus Rotalix Ceramic Grid Switch T A MRC200-GS</b>	<b>1</b>
		<p>30kW small focus and 67 kW Large focus loading with anode heat storage capacity of 2.4 MHU.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>• Maximus ROTALIX Ceramic tube with 0.4 / 0.7 mm nominal focal spot values.</li> <li>• Tube housing ROT-GS 1004 for oil cooling with built-in thermal safety switch</li> <li>• Grid switching with dynamic pulsed fluoroscopy</li> <li>• Rotor control unit for continuous rotation of the anode disk.</li> <li>• Cooling unit CU 3000 heat exchanger for direct and continuous forced cooling with oil.</li> <li>• High Voltage cables</li> </ul>	
3	<b>**NCVB175</b>	<b>Ceiling Rail extension set frontal</b>	<b>1</b>
		<p>Extension of ceiling rail at head- or footside side of the table, to enlarge the parking distance of the frontal ceiling mounted stand. Maximum extension is 1.5 meters. Movement of the frontal ceiling mounted stand is motorized over the full length of the rail.</p>	
4	<b>**NCVA089</b>	<b>RIS / CIS DICOM interface</b>	<b>1</b>
		<p>This package allows communication of the Allura Xper system with a local information system (CIS or RIS). The interface uses the DICOM Worklist Management (DICOM WLM) and Modality Performed Procedure Step (DICOM MPPS) standards.</p> <p>If a hospital has an Allura Xper system and an information system it can receive patient and examination request information from the information system and report examination results in order to:</p> <ul style="list-style-type: none"> <li>-Eliminate the need for retyping patient information on the Allura Xper</li> <li>-Prevent errors in typing patient names and registration numbers (ensuring consistency with IS information to prevent problems in archive clusters or to search for a name in case of later retrieval)</li> <li>-Inform the IS about the acquired images and radiation dose</li> </ul> <p>Upon request from the Allura Xper system the complete worklist with all relevant patient and examination data is returned from the IS to the Allura Xper system. For each patient the following information will be shown on the Allura Xper after it has been retrieved from the IS:</p> <p>Patient Identification:</p> <ul style="list-style-type: none"> <li>• Patient name</li> <li>• Patient ID</li> <li>• Birth date</li> </ul>	

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- Sex

Examination/Request Information:

- Accession number
- Scheduled procedure step start time
- Scheduled performing physician's name

It is possible at all times to enter patient demographics information manually within the Allura Xper system in case of an emergency or in case the local Information System connection is down.

On request of the clinical user the Allura Xper will report the following information about the selected patient to the IS:

Patient Identification:

- Patient name
- Patient ID
- Birth date
- Sex

Examination/Request Information:

- Accession number
- Performed procedure step status start/end date and time
- Performing physician's name
- Referenced image sequence

Radiation dose:

- Total time of fluoroscopy
- Accumulated fluoroscopy dose
- Accumulated exposure dose
- Total dose
- Total number of exposures
- Total number of frames

Further detailed information can be found in the Allura Xper DICOM Conformance Statement.

The interface requires an EasyLink (hardware and software) if the IS is not compliant with DICOM Work List Management and Modality Performed Procedure Step.

<b>5</b>	<b>**NCVA694</b>	<b>Subtracted Bolus Chase</b>	<b>1</b>
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For visualization of vessel structures when the blood flow is difficult to estimate, in particular in the lower peripherals.

Bolus Chase solves the problem of cumbersome step movements, the mismatch between blood flow and selected program, and lack of real-time image information.

During digital acquisition in non-subtracted mode with uninterrupted real-time image display, the contrast bolus is followed (chased) interactively by a motorized table scan movement using a hand-hold speedcontroller to adapt the speed of the table scan to the contrast flow. The framespeed can be adapted as well.

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The bolus run is followed with a mask run while using the same speedcurve and framespeed as generated during the bolus run. Viewing is possible in the subtracted and non-subtracted mode. If subtracted viewing is not required, the mask run can be skipped.

Subtracted Bolus Chase gives fast, accurate results for increased patient throughput and improved patient management. Automated exposure control and precise speed control assure a high quality images and excellent subtraction studies.

Comprising:

- automatic exposure control
- tabletop motordrive and hand-held speed controller (tableside)
- technique selection using Xper module, available both tableside and in control room (Xper FD20, FD20/10)

<b>6</b>	<b>**NCVA786</b>	<b>Vascular Quant.Sw pkg(Xper)</b>	<b>1</b>
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Functions:

- vessel diameter / stenotic index
- automated vessel analysis
- calibration routines

In addition the package allows manual measurements of line lengths (absolute and ratio's) and angulations. Multiple measurements in one image are possible.

Compatible with:

- Allura Xper FD10 Rel 3 and FD10/10 Rel 2 onwards
- Allura Xper FD20 Rel 2 and FD20/10 Rel 2 onwards
- Allura CV20 R1 onwards

<b>7</b>	<b>**NCVA101</b>	<b>Peripheral X-ray Filter</b>	<b>1</b>
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Set of flexible x-ray filters to provide an uniform density in angiographic examinations of the lower peripheral area.

Comprising:

- one central filter, at the top edge provided with sizing markers at every 5 cm, length : 1 m
- two side filters, length: 1 m

<b>8</b>	<b>**NCVA792</b>	<b>SyncraTilt and Cradle</b>	<b>1</b>
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This innovating SyncraTilt enhances the accuracy and efficiency of gravity-oriented procedures. It is available as an option for the Xper table in Allura Xper series systems.

SyncraTilt is ideal for interventional, myelography, phlebography and head down procedures because it provides more precise imaging of contrast medium, blood, or objects in the body.

With SyncraTilt, the isocentre is automatically located at the isocentre of rotation and angulation of the stand. If the longitudinal position of the stand changes, the tilt isocentre is changed to match with the new stand position. As a result, the region of interest is always centred

As the table tilts, the X-ray beam automatically coordinates to the movement.

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The table floats even when tilted, and the region of interest can be followed by panning the tabletop.

When combined with the Bolus Chase option, SyncraTilt enables phlebography to be performed with a head-up tilted patient.

In addition, this option also provides the possibility to cradle the table top. This allows optimal positioning of the patient for f.i. more invasive (surgical) or guided puncture procedures.

The option provides:

- maximum tilt range:
- -17 degrees (head down) to +17 degrees (head up).
- tilt speed: 2 degrees/sec
- isocentric cradle with maximum cradle range:
  - -15 degrees to +15 degrees for the full tilt range
  - cradle speed: 3 degrees/sec
- automatic safeguarding system with manual override
- panning range in tilted plane: equal to the standard tabletop specifications (longitudinal 120cm, lateral 35cm)
- easy to use controls

Comprising:

- Tilt and cradle drives with user controls

Compatible with:

- Xper table in Allura Xper FD series Rel 3 onwards (monoplane versions) and Rel 2 onwards (biplane versions)
  - Bolus Chase
  - Pivot for table base
  - swivel for table base

Power requirements: refer to system configuration

9	<b>**FCV0513</b>	<b>Add. OP rail (US version)</b>	<b>2</b>
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An extension for the table op-rail (30cm).

The additional op-rail can be mounted at the both sides of the tabletop part where no op-rails are mounted.

The additional op-rail is compatible with AD5 and XperTable (cardio and neuro) patient-tabletops.

The OP-rail has the standard US dimensions for operating room accessories.

The maximum load (downwards) on the additional op-Rail is 100 N (F=100N)

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		(this is limited by the tabletop of the Patient Table)	
		The maximum mechanical moment on the additional op-Rail is 40Nm downwards and 20Nm upwards	
		(this is limited by the tabletop of the Patient Table)	
10	<b>**FCV0569</b>	<b>Coupling to Video Switching</b>	<b>1</b>
		Coupling to Video Switching A video splitter box is provided to enable coupling a maximum of 4 color outputs (e.g. Interventional tools, Xcelera, XperIM and Viewforum) to the switching concept from our partner. ! For each color output that is coupled to the splitter box, one wall connection box becomes redundant.	
11	<b>**NCVA037</b>	<b>Two rows of 2 (4M)</b>	<b>1</b>
12	<b>**989801292102</b>	<b>CV Full Travel Pkg OffSite</b>	<b>2</b>
		Includes one (1) participant's airfare from North American customer location to Cleveland, Ohio, with lodging, ground transportation, and meal expenses. Breakfast/dinner provided by the hotel, and lunch/breaks are catered by Philips. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced.	
		Education expires one (1) year from equipment installation date (or purchase date if sold separately).	
13	<b>**989801299724</b>	<b>XD3879 ALLURA REL7.6 CTC14</b>	<b>1</b>
		Course Number: XD3879 Course Title: Allura Xper FD10/20 Rel7.6 Course Length: 14 days Delivery Method: ILT Modality: iXR Location: CTC Target Audience: Service Engineers	
		Description: This course trains the Customer Support engineer to a technical level which will enable him/her to perform complete Installation (including Setting to Work), Planned Maintenance (PM) and Corrective Maintenance (CM) on Allura Xper FD Systems through R7.6 according to the Customer Service philosophy.	
		The Mechanical Installation and Cabling are covered in the Allura Xper Mechanical Installation course.	
		The following Allura Xper systems are covered: FD10, FD10/10, FD20, FD20/10 and FD20/20 to release 7.6	

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Prerequisites:

XD9015 X-Ray basic part 1 & XD3002 X-Ray basic part 2 or X-Ray Experience.

Course-Ware:

Student book+ CD

CSIP 1

Course Objectives:

For Allura Xper systems, the engineer will learn how to:

- Operate the system, as far as required to perform service tasks.
- Make use of the service documentation.
- Perform Planned Maintenance:
  - Safety checks
  - Performance checks
  - Adjustments
  - Mechanical checks are not included.
- Make a backup of the system.
- Do a restore of the system.
- Perform extended Corrective Maintenance; with help of service documentation, and service tools.
  - Distinguish technical problems from incorrect operating.
  - Make use of extended functionality of the service tools.
  - FRU replacement for FRU with both high and low exchange rates.
  - Analyze the log file from the system.
- Customize most common parameters of the EPX database (including Automatic Position Control).

Major Topics:

Introduction Allura Xper systems

Operating

Service documentation

Service tools

Planned Maintenance

FCO

Corrective Maintenance

System Architecture

X-Ray generation

Geometry

User Interface

Power Supply

Image detection

Image processing

Host

Communication

IQ assurance

Customization

Software

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Line #	Part #	Description	Qty
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Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

### IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

14	<b>**980406041009</b>	<b>Rad Shield w/ Arm (Contoured) 61X76</b>	<b>1</b>
		Contoured Rad Shield with Arm rest. 61X76	
15	<b>**989801220012</b>	<b>Cable Spooler</b>	<b>3</b>
16	<b>**989801220037</b>	<b>M LED 3MC Light</b>	<b>3</b>
		MAVIG M3 MC LED - Multi Color / power Supply Included Includes Portegra2 Ext Spring Arm 75/90cm	
17	<b>**989801220064</b>	<b>Medrad Xper Cable Rack Mnt</b>	<b>1</b>
18	<b>**989801220078</b>	<b>Medrad Provis Rack Mount</b>	<b>1</b>
		The MARK V ProVis rack mount version is a contrast medium power injector which is dedicated for system integration. The injector is accomplished with microprocessor control of the flow rate the volume and the pressure. A dual turret syringe system is applied suitable for 2x150 ml disposable syringes.	
		<ul style="list-style-type: none"> <li>• flow rate can be set in ml/sec. ml/min. and ml/hour.</li> <li>• display of achieved rate volume pressure and time.</li> <li>• constant update and display of total injected contrast per patient</li> <li>• injection programs can be stored and retrieved.</li> </ul>	

### Comprising:

- electronic unit for rack mounting with power cable (3 m)
- injector head with controls heater system and cable (4.6 m)

**100215 Allura Xper FD20**

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"><li>• two disposable 150 ml syringes with pressure jackets and dual turret.</li><li>• control panel with cable (15 m)</li><li>• hand switch with coiled cable</li><li>• system interface cable 24 m with D connector</li><li>• rack mount installation kit</li><li>• table mount for injector power head of the injector MARK V ProVis</li><li>• Connector kit for injector head which is a kit for mounting the connector of the injector head extension cable at the connection box of the Angio DIAGNOST 5 table withcover for connection box of the AD5 for insulated mounting of the injector head connector</li><li>• mounting material</li><li>• injector head extension cable 18 m with mounting instructions for connector assembly</li></ul>	
19	<b>**989801220080</b>	<b>Portegra 2 360 Ceiling Column</b> Portegra 2 360 Column w/ trolley and ceiling track	<b>1</b>
20	<b>Third Party Item</b>	<b>Exam room viewing and video switching.</b> Includes: (2) additional LCD monitors (1) additional monitor ceiling suspension Video switching of any source to the 3 separate exam room monitors.	<b>1</b>