

## With **Azurion** performance and superior care become one

Specifications Azurion 7 C20 and Azurion 7 F20





# Contents

Geometry	4
User interface	10
X-ray generation	16
Imaging	18
Viewing	22
Additional options	25
Room layout	26
	User interface X-ray generation Imaging Viewing Additional options

# 1 Geometry

T

#### 1.1 Gantry / stand

Rock stable gantry design with fast and easy table side controlled operation, with full flexibility in applications by free positioning of the gantry, monitor suspension and operating modules.

The exclusive BodyGuard patient protection mechanism is designed to protect the patient from unexpected contact between the detector and the body. It uses capacitive sensing to determine patient location to help prevent collision, while allowing stand positioning at up to 25°/sec.





Azurion 7 C20

#### **Technical specifications**

rechnical specifications	
Iso-center to floor	Ceiling: 106.5 cm (41.9 inch) Floor: 114 cm (44.88 inch)
Longitudinal movement	Ceiling is manual and motorized of 260 cm (102.4 inch) at 15 cm/sec. It includes auto stops at the park position, cardio position, neuro position and lower peripheral position. Floor has no longitudinal movement
L-arm rotation	Ceiling has motorized and manual movement, over 180° with snap positions at 90°, -0°, -90° to allow patient access from three sides of the table
C-arm rotation / speed	In head-end position: 120° LAO, 185° RAO, in side position: 90° LAO, 90° RAO Speed up to 25°/sec. and 55°/sec. for rotational angio
C-arm angulation / speed	In head-end position: 90° cranial, 90° caudal up to 25°/sec. In side position: 185° cranial, 120° caudal up to 25°/sec.
Focal spot to iso-center	81 cm (31.9 inch)
Source Image Distance	89.5-119.5 cm (35.2-47 inch)
C-arm depth	90 cm (35.43 inch)
Rotation of the flat detector	Re-positioning of the Flat Detector from portrait to landscape within 3 seconds.
In case of rotational scan:	Maximum rotation speed in head position 55°/sec. Maximum rotation angle 240°

Optional	
Automatic Position Controller (APC)	<ul> <li>Functionality for the stand is accessed through the touch screen module at the patient tableside.</li> <li>This option includes a programmable position extension, which allows an 'unlimited' number of positions that can be stored and recalled per clinical procedure.</li> <li>Another feature of the APC is reference-driven positioning. This allows you to recall stand positions by referring to the images at the reference monitors, which means that the rotation, angulation, SID, and detector orientation are restored to the original settings of the reference image.</li> </ul>
FlexMove	It is an option for our Azurion system that off ers exceptional flexibility for the hybrid OR. FlexMove can be moved longitudinally and transversally, allowing you to examine the patient without panning the table and tangling up wires and tubes. This full range of movement frees up the operating area so physicians and staff can work in their normal positions and easily access the patient. Movement range: • Parallel to center line of table: 4356 or 5356 mm • Perpendicular to center line of table: 2600 mm



#### **1.2 Patient table**

The patient table is a dedicated interventional X-ray table that supports a full range of applications. A feather-light free floating tabletop helps maintain your region of interest and reduce effort. It has very high patient loadability and CPR can be performed on the table.

#### Table

Table	
Table height (minmax.)	74 cm - 102 cm (29.1 inch - 40.2 inch)
Table top length	319 cm (125.6 inch)
Table top width	50 cm (19.7 inch)
Longitudinal float range	120 cm (47.2 inch)
Lateral float range	36 cm (14.2 inch)
Max. table load	325 kg (715 lbs)
Max. patient weight	250kg (551 lbs) + 500 N for CPR. CPR can be done in any position of the table top.
Table up/down speed	30mm/s (1.2 inch/s)



Patient table options	
Store and recall	Reproducing precise coordinates (height, longitude and latitude) is critical for obtaining accurate visualizations. The optional automatic position controller brings the table back to the original table position stored, without applying additional X-ray dose.
Pivot	Transradial access, upper extremity angiography and patient transfer have never been simpler with our optional pivot feature. One finger push-to-pivot allows effortless patient positioning. It moves with less friction, making it easier to move larger patients. A secure mechanism locks the tabletop in place to prevent it from moving.
Tilt	Our option tilt functionality allows you to tilt the table for gravity oriented or puncture procedures. As the table tilts, the X-ray beam automatically adapts to the movement to keep the region of interest in the isocenter of rotation and angulation of the stand. As a result, your region of interest always remains centered.
Tilt and cradle	Many electrophysiology and non-vascular procedures benefit from additional positioning options. Our patient table with isocentric tilt and cradle-tilt functionality puts your gravity oriented or guided puncture procedures at the required angle.

Pivot	-90°/+180° or -180°/90°
Swivel (includes pivot)	Extended longitudinal range: 78.2 cm (30.8 inch), Height +8.5 cm (3.3 inch), Pivot range: -180°/90° only
Tilt and cradle	Tilting range: ±17° iso-centric, Cradle tilting range: ±15°, Table height increase: min +4 cm (1.6 inch), max +1 cm (0.4 inch)
Tilt	Tilting range: ±17° iso-centric, Table height increase: min. +4 cm (1.6 inch), max. + 1 cm (0.4 inch)
1.3 OR table	
OR table	Ceiling system with OR table is smoothly integrated with an OR table MAQUET MAGNUS to create a truly multifunctional room suitable for conventional surgery, hybrid surgery, and interventions.
	Flexmove systems can also select from Trumpf Medical the TruSystem 7500 Hybrid Plus surgery table





**Azurion 4F Monitor Ceiling Suspension** 



Table X-ray protection



Ceiling suspended radiation shield

 $^{*}$  in case of OR table other accessories may apply

#### **1.3 Philips monitor ceiling suspension**

The Philips monitor ceiling suspension allows flexible, freely rotating positioning of the monitors for an excellent viewing angle. A separate integration kit is available for third party monitor suspensions and ceiling booms. Standard, a 2 Fold MCS is delivered with two 27" full HD widescreen monitors.

Optional number of monitors	
2 Fold MCS	2x 27" Full HD widescreen
4 Fold MCS	3 or 4x 27" Full HD widescreen,

6 Fold MCS	4x 27" Full HD widescreen + 1 or 2x 27" (top- or rear-viewing)
3 <sup>rd</sup> party boom (1,2 or 4 fold)	27" or 32" Full HD widescreen monitor
FlexVision MCS	1 x 58" XL screen
FlexVision MCS	1x 58" XL + 2x 27" Full HD widescreen (top- or rear-viewing)

#### **MCS** features

Rotation range	350°
Transversal movement	Over a distance of 300 cm (118.1 inch)
Longitudinal movement	Over a distance of 330 cm (129.9 inch)
Height movement	Motorized 32 cm (12.6 inch)

#### **1.4 Accessories**

#### Standard accessories (patient table)

Mattress

Patient straps
Set of arm supports (if cradle option is chosen)
Drip stand
OP rail accessory clamps
Cable holders (15 pieces)

#### **Optional accessories**\*

Panhan	ıdle
Neuro N	Aattress (if Neuro tabletop)
Longer	Cardio Mattress
Head su	upport
Arm sup	oport, incl. arm pad
Neuro v	vedge
Table cl	amp
Set han	dgrips and clamps
Additio	nal OP-rail with cable extension kit for control modules
Ratchet	compressor
Additio	nal OP-rail
Table ba	ase accessory rail
Examin	ation light
Arm sup	oport (height adjustable)
Table X-	-ray protection
Periphe	eral X-ray filter
Pulse ca	ath arm support

Ceiling suspended radiation shield

# 2 User interface

#### 2.1 User interface in the examination room

In the examination room, the user interface comprises the on-screen display, touch screen module (TSM) and the control module. Information is displayed on the on-screen display in the examination room. With the touch screen module Pro (option) images shown on the live and reference monitor can also be viewed here. The control module can be positioned on three sides of the patient table. The control module adjusts to the position to retain the intuitive button operation. The control module has a protection bar that prevents unintended activation of system.

FlexVision Pro is an extension to the FlexVision large 58 inch high resolution LCD for exam room, enabling flexible screen lay outs and full control (seamless mouse over) of up to 11 external sources including third party systems.

#### **On-screen display**

X-ray indicator
X-ray tube temperature condition
Radiographic parameters: kV, mA, ms
Rotation and angulation of the stand positions
Table height
Detector field size display
General system messages
Selected frame speed
Fluoroscopy mode
Integrated fluoroscopy time
Air Kerma dose (both rate and accumulated X-ray dose)

Dose Area Product (both rate and accumulated X-ray dose)





Azurion viewpad controls



Azurion viewpad controls

Run and image selection

Exam and run cycle

Review speed

Run and exam overview

Laser pointer

Flagging exam and run for storage

Storing reference image to reference monitors

Select reference monitors for review and/or processing of previous run exposures

Subtraction and image mask selection

Select reference monitors for review and/or processing of previous run exposures

Subtraction and image mask selection

#### Azurion touch screen module (TSM)

Acquisition setting

Image Processing

Automatic Position Control (APC), 'unlimited' number of stand positions can be stored and recalled from touch screen module.

Quantitative Analysis (QA)

Table Automatic Position Controller

IntelliSpace Cardiovascular (ISCV) table side control

Interventional tools table side control

Xper Flex Cardio table side control

CX50 table side control

Table and geometry lock functions

X-ray enable/disable

Fluoroscopy buzzer reset

Stopwatch

Fluoro store

Cleaning mode

Control of monitors (Switchable Viewing or FlexVision)

Azurion touch screen module (TSM)



Control module



Touch screen module pro

#### **Control module**

Pivot Lock
Tabletop float
Tabletop motorized float
Table height position
Table tilt angle (if the tilt option is available)
Table cradle angle (if the cradle option is available)
Source Image Distance selection
Stand positioning
Longitudinal and lateral movements (FlexMove only)
Longitudinal movement of the stand along the ceiling
Stand rotation in an axis perpendicular to the ceiling
Store and recall of 'unlimited' number of stand positions via the touch screen module. Accept button to activate an APC position selected on touch screen module
Emergency stop button
Geometry reset button, which resets stand and table to a default service configurable starting position
Fluoroscopy mode selection as defined via settings
Positioning of shutters and wedges without radiation
Fluoro storage to record fluoroscopy up to 2000 images
Selection of the detector field size
Reset of the fluoroscopy buzzer
Selection of Roadmap Pro function (optional)
Selection of SmartMask function (ontional)

Selection of SmartMask function (optional)



ProcedureCards (standard)

#### **ProcedureCards**

The Azurion series include a range of ProcedureCards to help optimize and standardize system set-up for your cases, from routine to mixed procedures. ProcedureCards can increase the consistency of exams by offering presets (e.g. most-frequently used, default protocols and user-specified settings) on procedure-, physician- or departmental level. In addition, hospital checklists and/or protocols can be uploaded into the ProcedureCards to help safeguard the consistency of interventional procedures and help to minimize preparation errors.

#### Touch screen module pro (option)

With this option the X-ray images from the live as well as reference monitors will be shown on the touch screen module.

Image navigation on the touch screen module

Intuitive control of shutters and wedges by simply dragging the lines shown on top of the image

Intuitive zooming an panning functionality (also during fluoroscopy)

Virtual keyboard and touchpad to control external equipment (optional)

Turns the touchscreen into the pointing device in order to improve communication in ER/CR: when activated the pointer is shown on corresponding monitor



Intuitive user interface with user guidance

#### 2.2 User interface in the control room

The standard viewing console comprises of an acquisition monitor, review monitor, mouse and keyboard.

### System information viewable at Azurion acquisition monitor

Stopwatch and Time

System guidance information

Dose Area Product (DAP) and Air Kerma X-ray Dose (both rate and accumulated X-ray dose)

Frame speed settings, fluoroscopy mode and accumulated fluoroscopy time

Exposure and fluoroscopy settings, such as Voltage (kV), Current (mA) and pulse time (ms)

Stand position information, such as rotation, angulation and SID

Table information such as height, cradle, tilt

Azurion acquisition monitor
Patient scheduling
Select patient for acquisition
Acquisition setting
Review runs
Archive runs
Step through file, run or images
File and run overview
Image processing features such as contrast, brightness and edge enhancement
Flagging of runs or images for transfer
Image annotation
Automatic printing
Video invert
Zoom and pan image
Electronic shutters
Toggle switch physio

Store/delete images/runs

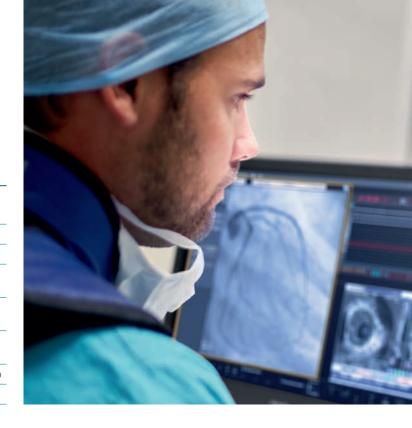
Store fluoro

Pixel shift

#### Optional

FlexSpot

FlexSpot offers an integrated workspot in the control room with up to three high resolution QHD (2560x1440) displays.



### Azurion review monitor

Subtra	action, optional
Move	or renew mask, optional
Landn	narking (increase/decrease of subtraction degree), optional
View t	race, optional
Reset	fluoroscopy timer and switch X-ray on/off
Geom	etry lock
Proce	dure card manager
File ar	nd run cycle
File, rı	un and image stepping
Run ai	nd file overview
Reset	fluoroscopy timer and switch X-ray on/off
Paralle	el Working (standard)
Custo	mization and electronic help

Power on/off

Video Only mode in case of FlexSpot/FlexVision.

File and run cycle

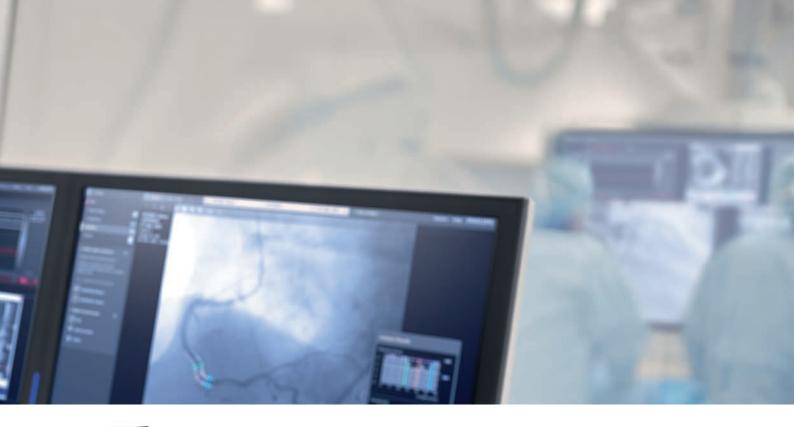
File, Run, and Image stepping

Run and file overview

Enable/disable X-ray

Geo disable

Reset of the fluoroscopy buzzer





**User interface options** 

Pedestal	<ul> <li>The pedestal creates a flexible workspot for operating the system from the examination room.</li> </ul>
	<ul> <li>The pedestal is equipped with a control module and</li> </ul>
	can also hold the TSM, ViewPad and X-ray footswitch.
	$\cdot$ The control module can be disconnected from the
	pedestal and attached to the table OP rail.
	<ul> <li>The pedestal can be positioned freely around the</li> </ul>
	patient table and can be put aside when not in use.

Pedestal



third touch screen module



Wireless footswitch

Second control module, third touch screen module	The system can be extended with additional user interface modules that have the same functionality as
	the modules in the examination room. Adding a second control module in the control room works in a master/ slave configuration.
Contrast injectors	The system can be connected to contrast injectors to enhance procedures.

Wireless footswitch	<ul> <li>Our Wireless footswitch streamlines workflow, reduces clutter, and simplifies preparation and cleanup where it's needed most – at the point of patient treatment. Clinicians can wirelessly control the X-ray system from any convenient position around the table.</li> <li>No sterile covers are needed with the IPX8 certified waterproof design. It's one of Philips Live Image Guidance solutions for X-ray environments.</li> </ul>
Additional Options:	Intercom Automatic Position Controller (system and table)



#### 3.1 X-ray generator

The Certeray generator is enhanced for the latest interventional X-ray needs

Technical specifications	
Generated power	Microprocessor-controlled, 100 kW high frequency generator with MOSFET technology
Minimum switching time	Quartz-controlled power switch, with a minimum switching time of 1 ms
Voltage range	40 to 125 kV
Maximum current	1000 mA at 100 kV
Maximum continuous power	2.5 kW for 0.25 hours, 1.5 kW for 8 hours
Nominal power (highest electrical power)	100 kW (1000 mA at 100 kV)

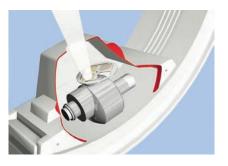
#### 3.2 X-ray tube

The Azurion 7 is provided with the high power MRC 200+ GS 0407 X-ray tube which allows for very high heat dissipation, enabling SpectraBeam filtration to manage the patient X-ray dose.

Technical specifications	
Focal spot size and loadability	0.4/0.7 mm (0.016/0.028 inch) nominal focal spot values with maximal 30 kW and 65 kW loadability is based on 250 W anode reference power
Grid-switched pulsed fluoroscopy	Yes
Fluoro power for 10 minutes	4,500 W
Fluoro power for 20 minutes	4,000 W
Maximum X-ray field with SID = 100	35 x 35 cm (13.8 x 13.8 lnch)
Maximum X-ray field with SID = 120	42 x 42 cm (16.5 x 16.5 Inch)
Maximum X-ray field with SID = 70	24.5 x 24.5 cm (9.7 x 9.7 Inch)
Maximum anode cooling rate	1750 kHU/min
Max. anode heat storage	6.4 MHU
Max. assembly heat storage	9.4 MHU
Anode heat dissipation	21,000 W
Continuous anode heat dissipation	3,500 W
Max. assembly continuous heat dissipation	4,000 W
Extra pre-filtration	SpectraBeam dose management with 0.2, 0.5, and 1.0 mm (0.01, 0.02 and 0.04 inch) Copper equivalent SpectraBeam filters
Cooling liquid	Oil cooled X-ray tube with thermal safety switch
Anode target angle	11°
Anode cooling method	Direct anode oil cooling system with 200 mm (7.87 Inch ) anode diameter

#### **DICOM Radiation Dose Structured Report**

Collection of dose relevant parameters and settings with export possibility to a DICOM database (e.g. PACS, RIS). The reported data can be used for analysis, to further manage X-ray dose. The DICOM RDSR function collects and exports the required data. The software to provide the DICOM data for analysis and alerting needs to be acquired separately. secondary capture dose report function allows you to save and transfer, manually or automatically, a patient dose report to PACS in DICOM secondary capture format.



3.2 X-ray tube

## 4 Imaging General intro imaging

Azurion X-ray suites are equipped with a new generation of compact dynamic flat detectors which can easily handle complex projections. Image quality and X-ray dose management are further enhanced by dedicated image processing.

Philips DoseWise program is a set of techniques, programs and practices built into the X-ray system that allows excellent image quality during each interventional application, while at the same time managing x-ray dose at every opportunity.

#### **DoseWise features include**

User quality control mode (optional)

Zero dose positioning

1.000

325



#### 4.1 ClarityIQ technology (Optional)

To create a breakthrough in interventional imaging and dose management, we evaluated the performance of the system as a whole instead of its individual components. During this process the entire digital imaging pipeline was redesigned, all relevant system components were improved and in total more than 500 parameters were clinically fine-tuned.

#### 1. Powerful image processing technology

ClarityIQ technology includes state-of-the-art, realtime image processing developed by Philips Research and based on the latest parallel computing technologies. Benefits include:

- Noise and artifact reduction, also on moving structures and objects;
- Image and edge enhancements;
- · Automatic real-time patient and accidental table motion correction on live images.

#### 2. Completely redesigned, flexible digital imaging pipeline

ClarityIQ technology utilizes a flexible digital imaging pipeline from tube to display that is tailored for each and every application area such as cardio or neuro. This gives the flexibility to select virtually unlimited application specific configurations and obtain superb images on your full range of clinical applications and patient types including patients with a high BMI.

### 3. More than 500 clinically fine-tuned system parameters and enhanced relevant system components across the entire imaging chain

With ClarityIQ technology over 500 system parameters are fine-tuned for each application area; the result of years of Philips' clinical leadership. ClarityIQ technology also enhances some essential system components. It is now possible to manage radiation by increased filtering, use small focal spot sizes as well as shorter pulses with the grid switching technology of Philips MRC tube and accompanying generator.

#### 4.2 Dynamic Flat Detector

The dynamic Flat Detector of Philips provides excellent image quality.

#### **Specifications**

specifications	
Size of detector housing	68 cm (27 inch) diagonal, including BodyGuard
Maximum field of view	48 cm (19 inch) diagonal
X-ray sensitive area	1904 x 2586 pixels
Detector zoom fields	42, 37, 31, 27, 23, 19, 16 cm (17, 15, 12, 11, 9, 8, 6 inch) diagonal square formats
Pixel pitch	154 μm x 154 μm
Detector bit depth	16 bits
Nyquist frequency	3.25 lp/mm
DQE (0)	77% at 0 lp/mm
MTF at 1 lp/mm*	59% (typical)

\* According to IEC 62220-1-3, at highest gain

#### 4.3 Fluoroscopy

Per application, three fluoro modes are available at tableside which can be programmed via settings. Each mode can be programmed with a different composition of ClarityIQ parameters. ClarityIQ technology provides a flexible digital image pipeline, powerful image processing technology and clinically fine-tuned parameters across the entire imaging chain.

#### **Specifications**

Extra pre-filtration	SpectraBeam filters: 0.2, 0.5 and 1.0 mm Copper equivalent
Fluoroscopy image processing	Recursive filtering, localized contrastadaptive contour enhancement, SPIRIT filters and Xres algorithm
Pulse rates	Default (non Clarity) at 3.75, 7.5, 15 and 30 pulses per second
Frame grabbing of static fluoroscopy images	Yes
Fluoroscopy storage	Default storage of the last 20 sec. of fluoroscopy for reference or archiving
Grid-switched pulsed fluoroscopy	Yes

#### **4.4 Digital Acquisition**

The system can be customized with a virtually unlimited number of acquisition programs for digital angiography and digital subtraction angiography. Xres is a real-time processing algorithm that provides excellent image quality through enhanced contrast and sharpness. It exploits the benefits of the fully digital detector to reduce noise in clinical images.

Specifications		
Standard configuration image storage	0,5 to 6 images/sec 50.000 images (based on 1k²)	
Storage extension (optional)	100.000 images (based on 1k²)	

#### **Optional**:

Image & Processing	ClarityIQ
	QA
	Rotational Angio
	CardiacSwing
	Physio Viewing
	Bolus Chase Subtract
	Bolus Chase Reconstruction
	Image rate 25/30 images/sec
	Image rate 50/60 images/sec
	Roadmap pro/SmartMask
	Dual Fluoro
	Data integrity UPS



# **5** Viewing

#### **5.1 Monitors**

The system is delivered standard with one 27" LCD monitor for live and ref signal. The monitor is mounted on the Philips Monitor Ceiling Suspension including motorized height adjustment. Two 24" LCD color monitors with parallel working are standard in the control room.

27" LCD Monitor ER and 24"	LCD Monitor CR
----------------------------	----------------

Format	Native Format 1920 x 1080
Wide viewing angle	Yes (approximately 178°)
High brightness	Default controlled brightness
Video signal	Compatible with video signals up to 1920x1200 and from Ultrasound and IVUS

#### 24" LCD CR

Active screen size (diagonal)	598.6 mm (23.6")
Active screen size	(H X V) 521.3 mm X 293.2 mm (20.5" X 11.5")
Resolution	2MP (1920 X 1080)
Wide viewing angle	Yes (approximately 178°)
Maximum Luminescence	400 cd/m² typical
DICOM calibrated luminescence	<b>e</b> 350 cd/m <sup>2</sup>
Contrast ratio	1000:1 typical, 700:1 minimum
Tilt	+5°/+20°



#### FlexVision XL

#### **Optional monitors**

#### **FlexVision XL**

Flexvision XL	
Size	58-inch, 8 Megapixel color LCD
Format	Native resolution: 3840x2160
High Brightness	Max: 700 Cd/m² (typical) stabilized: 400 Cd/m²
Contrast ratio	1:4000 (typical)
Wide viewing angle	Approx. 176 degrees
Stabilization control	Constant brightness stabilization control
Lookup table	Lookup tables for gray-scale, color and DICOM transfer function
Protection screen	Full protective screen Ingress Protection: IP-21

#### FlexVision XL

FlexVision XL is a viewing concept that provides outstanding viewing fl exibility, using a large, high defi nition LCD screen, it allows you to display multiple images in a variety of layouts - each tailored for your specific procedure. The SuperZoom feature lets you enlarge small details of anatomy, devices and data (ECG signals and hemodynamic data) for excellent visibility for confi dent decisions during challenging procedures.



#### **FlexVision Pro**

With FlexVision Pro, user can control FlexVision XL and video sources on FlexVision XL through wireless mouse in examination room as well as virtual keyboard and touchpad on the touch screen module in the examination room. An operator can resize images and adjust the screen layout during the procedure without going into configuration.

#### 27" LCD ER

27 LCD ER	
Size	27 inch high brightness color TFT-LCD display
Format	Native format 1920x1080 Full HD
Grey-scale resolution	10 bit gray-scale resolution with gray-scale correction
Wide viewing angle	Wide viewing angle (approx. 178 degrees)
High Brightness	High brightness (max 650 Cd/m², default 400 Cd/m²)
Luminance stability	Long term luminance stability through backlight stabilization circuit
Brightness control	Automatic brightness control with backlight sensor
Control functions	Control functions on side
Setting	User programmable and standard reference setting
On-screen display	Yes
Lookup table	Internal selectable lookup table for gray-scale transfer function, including DICOM
Power supply	Internal power supply (100-240 VAC)
Integrated LCD projection	Yes

screen

#### 32" LCD ER (optional requires 3<sup>rd</sup> party boom)

· · ·	
Size	32 inch high brightness color TFT-LCD display
Format	Native format 1920x1080 Full HD
Grey-scale resolution	10 bit gray-scale resolution with gray-scale correction
Wide viewing angle	Wide viewing angle (approx. 178 degrees)
High Brightness	High brightness (max 500 Cd/m², default 400 Cd/m²)
Luminance stability	Long term luminance stability through backlight stabilization circuit
Brightness control	Automatic brightness control with backlight sensor
Control functions	Control functions on side
Setting	User programmable and standard reference setting
On-screen display	Yes
Lookup table	Internal selectable lookup table for gray-scale transfer function, including DICOM
Power supply	Internal power supply (100-240 VAC)
Integrated LCD projection screen	Yes

#### **Optional monitors in control room**

#### FlexSpot

Integrated work spot in the control room to view, control and manipulate all applications within a single view

#### FlexSpot

Size	27 inch color TFT-LCD display
Format	Native format 2560x1440 Quad HD
High Brightness	High brightness (max 500 Cd/m², default 350 Cd/m²)
Wide viewing angle	Wide viewing angle (approx. 178 degrees)
Luminance stability	Long term luminance stability through backlight stabilization circuit
Brightness control	Automatic brightness control with backlight sensor
Control functions	Control functions on side
Setting	User programmable and standard reference setting
On-screen display	Yes
Lookup table	Internal selectable lookup table for gray-scale transfer function, including DICOM
Power supply	Internal power supply (100-240 VAC)
Connectivity	Integrated USB hub

#### Additional FlexSpot

This feature adds a second FlexSpot workspot with its own high resolution Quad HD (2560x1440) display as well as its own keyboard and mouse.

- Up to 1 video source can be displayed at a time on the add-on FlexSpot display.
- The X-ray status area with all X-ray details can be shown/hidden.

#### 2nd display for FlexSpot

This feature adds a second high resolution Quad HD (2560x1440) monitor to the primary FlexSpot workspot. It enables the user to show up to 8 video sources on a single FlexSpot workspot by combining 2 high resolution displays. Keyboard and mouse control is seamless across the 2 displays.

#### **Optional viewing**

MultiSwitch (control room)

MultiVision (exam room)

Optional ref monoplane

#### Switchable Monitors

The Switchable Monitor option gives you full control of what you display and where you display it on your exam room monitors. Display up to 16 monitor inputs via the touch screen module (TSM), including the live image, reference image, frontal and lateral projections, hemo data and equipment from other vendors.



FlexSpot



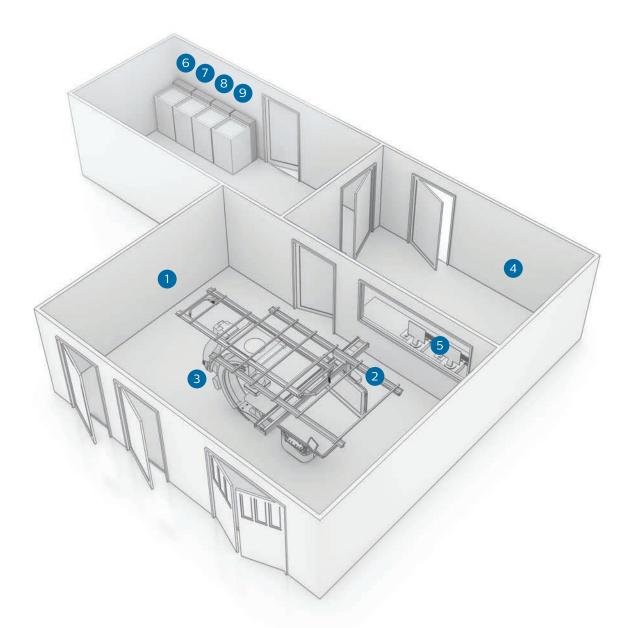
Additional FlexSpot and 2nd display

# 6 Additional options

### General additional options

Subtracted Deluc Chase	2D Quantification no desce
Subtracted Bolus Chase	2D Quantification packages
CO <sub>2</sub> View Trace	Quantitative Coronary Analysis (QCA)
IntelliSpace Portal	Left Ventricular Analysis (LVA)
CX50	Right Ventricular Analysis (RVA)
IE33	Quantitative Vascular Analysis (QVA)
EPIQ	QA Basic measurements
EchoNavigator	Full Autocal
DoseAware	Measurement
Ambient Experience	
RIS/CIS DICOM interface	
DVD writer	
Medical DVD recorder	
CardiacSwing	
Rotational Angio	
Hemodynamic system	
Xper Flex Cardio	

# 7 Room layout

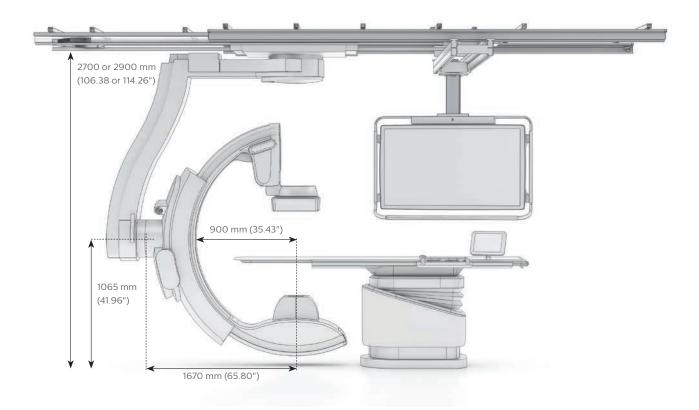


#### **Top view**

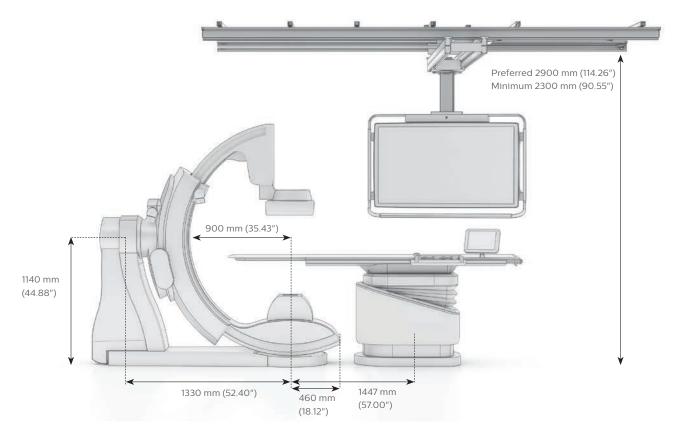
- 1. Examination room
- 2. LCD monitor ceiling suspension
- 3. Ceiling mounted C-arm stand
- 4. Control room
- 5. Xper Viewing console
- 6. Certeray generator
- 7. Geometry cabinet
- 8. System cabinet
- 9. FlexVision cabinet

Conceptual drawing of a room layout

### Front view ceiling mounted



### Front view floor mounted





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