

Ship To:
BG Klinikum Unfallkrankenhaus
Warener Str. 7
Berlin
Germany

Test and Verification Report

Case Number: 0126423969
Work Order: WO-14126981

WORK DETAILS

Engineer Name: Bernd Herbert	Event Type: Predictive / Preventative Maintenance
Device Status: Pass	Service Activity: Visit 2

EQUIPMENT DETAILS

Product Name: Allura Xper FD10/10	Serial Number: 416
Product Number: 722005	Installed Product: 44638883
Tech ID: 44638883	UDI: N/A

	Min	Max	UoM	Measurement	Result	Comments
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On-site preparations

Preparing on-site for Planned Maintenance

Points of attention mentioned by the customer:	-
Schedule a patient	PASS
CAT tool shows PC related errors	No
Check emergency stop	PASS
Check safety of system	PASS
Check if enclosures and covers are free from damage, cracks and sharp edges.	PASS
Check system	PASS

Image Chain + X-ray Safety

Image chain Frontal channel

Adjusting the generator	PASS
Calibrate the flat detector	PASS
Check Dose Test and Fastdose Calibration	PASS
Check Energy and Signal Flow 1	PASS
Check Energy and Signal Flow 2	PASS
Check EDL Expected Tube Power Verification	PASS

X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode I - frontal

Legal limit value	µGy/s	733
Measured Dose Rate	µGy/s	350
Result		PASS

	Min	Max	UoM	Measurement	Result	Comments
Image Chain + X-ray Safety						
X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode II - frontal						
Legal limit value			μGy/s	1467		
Measured Dose Rate			μGy/s	706		
Result					PASS	
X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode III - frontal						
Legal limit value			μGy/s	1467		
Measured Dose Rate			μGy/s	1313		
Result					PASS	
Image chain Lateral channel						
Adjusting the generator					PASS	
Calibrate the flat detector					PASS	
Check Dose Test and Fastdose Calibration					PASS	
Check Energy and Signal Flow 1					PASS	
Check Energy and Signal Flow 2					PASS	
Check EDL Expected Tube Power Verification					PASS	
X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode I - lateral						
Legal limit value			μGy/s	733		
Measured Dose Rate			μGy/s	346		
Result					PASS	
X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode II - lateral						
Legal limit value			μGy/s	1467		
Measured Dose Rate			μGy/s	714		
Result					PASS	
X-ray safety: Air Kerma rate Verification - Fluoroscopy Mode III - lateral						
Legal limit value			μGy/s	1467		
Measured Dose Rate			μGy/s	1322		
Result					PASS	
Image chain Monitor (Philips)						
Check Monitor Performance					PASS	
Mechanical Maintenance + Preventative Replacements						
Technical room (Allura systems with Velara generator)						
Check Air flow in technical room					PASS	
Do the mechanical maintenance in the technical room					PASS	
Clean Fans					PASS	

	Min	Max	UoM	Measurement	Result	Comments
Mechanical Maintenance + Preventative Replacements						
Technical room (Allura systems with Velara generator)						
Corrosion on cabinets					Mild	
Check if power cables are properly connected					PASS	
Check PDU cables for damage					PASS	
Clean PDU					PASS	
Check HV connectors					PASS	
Check coolant level of x-ray tube cooling unit (frontal)					PASS	
Check X-ray tube cooling unit (frontal)					PASS	
Check coolant level of x-ray tube cooling unit (lateral)					PASS	
Check X-ray tube cooling unit (lateral)					PASS	
Check Flat Detector cooling hoses (cabinet side)					PASS	
Check Flat Detector cooling hoses (Stand side)					PASS	
Check if fans in the cabinets operate correctly					PASS	
Ceiling Rails						
Clean the ceiling rails					PASS	
Check the ceiling rails					PASS	
Check Ceiling rails for signs of wear					PASS	
Check Ceiling rails end stops					PASS	
Check Ceiling rail fixing block attachment					PASS	
Frontal stand						
Do the mechanical maintenance of the frontal stand					PASS	
Long oil hose check					PASS	
Short oil hose check					PASS	
Frontal stand (yearly after 10 years)						
Check bolts of Roll motor connection					PASS	
Check bolts of Propeller drive connection					PASS	
Check bolts of C-arc to L-arm connection					PASS	
Longitudinal drive wheel check (yearly after 10 years)					Not Installed	
Frontal stand (yearly after 15 years)						
Check welded seams (L-arm)					PASS	
Lateral stand						
Do the mechanical maintenance of the lateral stand					PASS	
Check for grease on the angulation/skew point					PASS	
Long oil hose check					PASS	
Short oil hose check					PASS	

	Min	Max	UoM	Measurement	Result	Comments
Mechanical Maintenance + Preventative Replacements						
Lateral stand (yearly after 10 years)						
Check bolts of Roll motor connection					PASS	
Check bolts of Larc U-arc to C-arc connection					PASS	
Monitor Ceiling Suspension						
Examine the monitor frame					PASS	
Examine the monitor ceiling suspension					PASS	
Check monitor for loose bolts					PASS	
Check external cabling					PASS	
Check Ceiling Carriage					PASS	
Check rotation lock ring					PASS	
Check spring locking pins					PASS	
Check Actuator Main Bolts					PASS	
Check Actuator Safety Bolts					PASS	
AD7 Patient Support: mechanical maintenance						
Do mechanical maintenance of the AD7 (tilt)					PASS	
Check movement Patient Support					PASS	
Functional check Longitudinal End Stop					PASS	
Functional check Lateral End Stop					PASS	
Check for signs of corrosion					Mild	
Check Table Top for damage					PASS	
Functional check Longitudinal Bearings					PASS	
Check additional OP rail					Not Installed	
Check Force Sensor					PASS	
Check Potmeter Pull Wire for longitudinal movement					PASS	
Check Lateral Guides					PASS	
Check fluid protection plate					PASS	
Check lateral brake					PASS	
Check pivot brake and friction block for pivot-holding force (45 degrees)					PASS	
Check pivot brake and friction block for pivot-holding force (0 degrees)					PASS	
Check pivot movement					PASS	
AD7 Patient Support: extended mechanical maintenance						
Clean and lubricate guides and spindles of the AD7 (tilt)					PASS	
Check internal cables					PASS	
Check Potmeter Pull Wires inside patient support					PASS	
Visual inspection Lateral end stop					PASS	

	Min	Max	UoM	Measurement	Result	Comments
Mechanical Maintenance + Preventative Replacements						
AD7 Patient Support: extended mechanical maintenance						
Visual inspection Longitudinal end stop					PASS	
ECG and Injector Relays						
Check the ECG and injector relays					PASS	
Wired foot switch connected to the Patient Support / Surgery Wall Connection Box						
Cable and connector					No damage	
Handle					Firmly Attached	
Loose items in foot switch					NO	
Cleaning of foot switch					PASS	
Strain relief					PASS	
Operator controls						
Check the function of the operator controls					PASS	
Check operator controls for damage					PASS	
Check laser pointer window on viewpad					PASS	
Check TSM swing arm					PASS	
Counter-balanced arms						
Check the counter-balanced arms					PASS	
Check MCC bracket					PASS	
Radiation Shield on Counter Balanced Arm						
Check the Radiation Shield					PASS	
Calibrations						
Frontal stand						
Adjust frontal stand					PASS	
Lateral stand						
Adjust lateral stand					PASS	
Interventional Tools: XperCT gain calibration						
Do the XperCT gain calibration					Not Required	
Interventional Tools: calibrations and verifications						
Do the Interventional Tools calibrations and verifications					Not Required	
Completing the visit						
Completing the visit						
Functional Test					PASS	

	Min	Max	UoM	Measurement	Result	Comments
Completing the visit						
Completing the visit						
Handover					PASS	

Philips Representative Signature:



Engineer Name: Bernd Herbert

Date: Aug 17, 2026

