



Allengers
Passion for excellence

Successfully
installed
700+ Cathlabs
WORLDWIDE



Advanced
**Angiography
System**

for **Cardiac, Neuro & Vascular
Interventions** under one roof

Fixed Cathlab
Altima Series

Quality, System and Safety Certifications



EN ISO 13485:2016



ISO/IEC 27001:2022



ISO 9001:2015



AERB

With **"Synergy"** Software

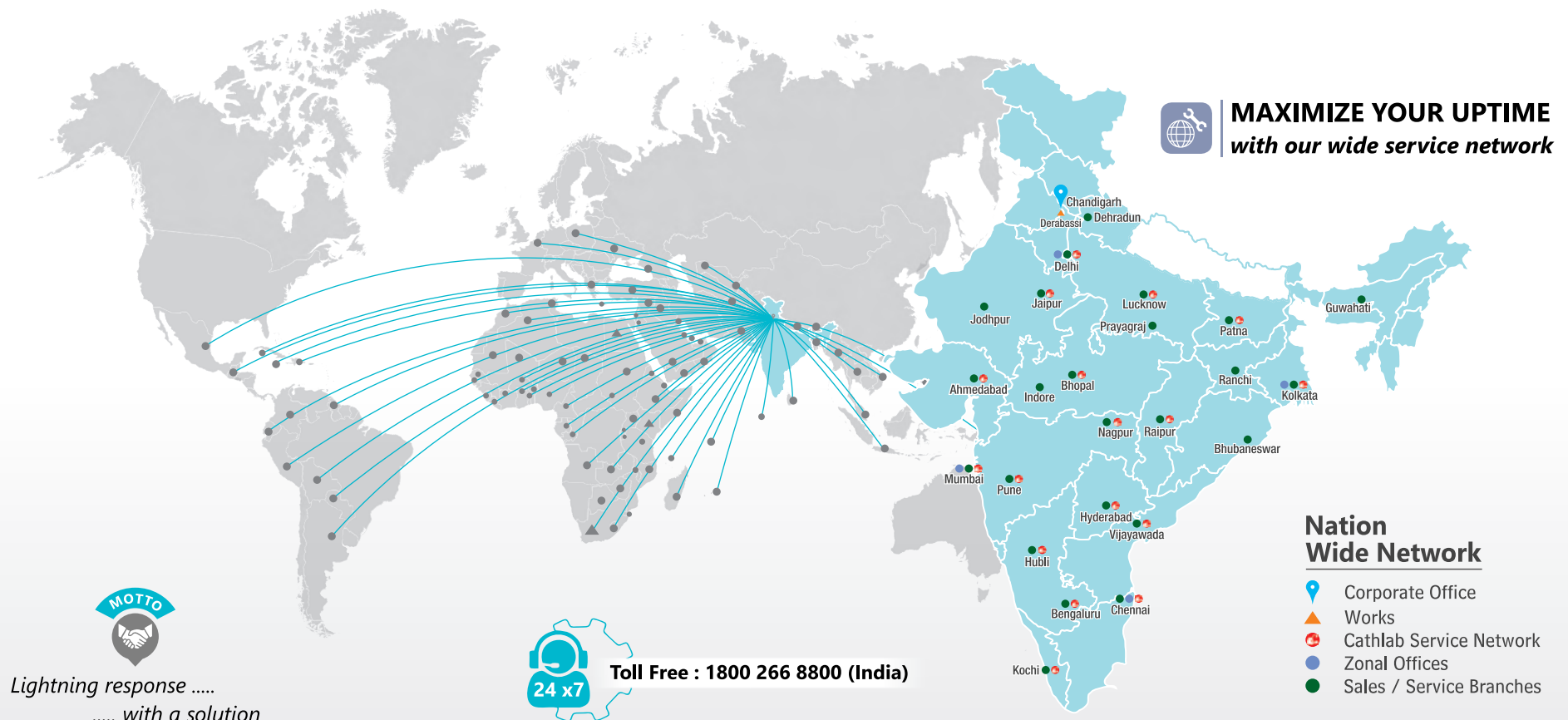
About Us

From past 37 years, Allengers has led the global healthcare sector with innovative, high-quality medical systems and healthcare software, earning accolades for excellence. Our systems prioritize seamless workflows and top-notch radiation safety, benefiting radiologists and patients alike. Committed to defined timelines and utilizing state-of-the-art facilities over 100,000 sqm, we adhere to the highest industry standards.

Choose Allengers as your dedicated healthcare partner to embark on a journey of healthcare revolution, guided by cutting-edge technology and an unwavering commitment to excellence.

Global Presence

Apart from a Nation wide service network of Cathlabs, presently, exporting to more than 110+ countries in the continents of Africa, Asia, South America, Europe, Middle East and CIS.



Altima Adv

Allengers Altima Adv uses state-of-the-art digital technology for superb performance, improved reliability, ease of use to meet the expectations of Interventionist to give a single solution for Cardiac, Vascular and Neuro Imaging.



Large displays in Altima series
enhances your
viewing experience
on a single monitor

Salient Features :

- Detector size 20 x 20 cm / 30 x 30 cm.
- 1K x 1K / 1.5K x 1.5K resolution & High DQE of detector.
- 55" high resolution, high luminous coloured monitor with multiple display options / medical grade monitor.
- Distortion free imaging.
- Live stent view (optional).
- Motion Compensation DSA (optional).
- Motorized rotation and up / down movement of detector.
- 100 KW dual inverter based generator.
- Liquid metal tube for toughest clinical demands.
- Online Digital Subtraction Angiography.
- ASSURE Protocols for radiation protection.
- Stent view and Stent fade in fade out feature.
- Mask ADV
- Rotational Angiography available.
- More angles in LAO / RAO (-120° to $+120^{\circ}$).
- Option for longer Cathlab table for head to toe coverage also available.
- QCA & QLVA.
- IVUS/FFR/OCT Integration (optional).

Altima F100

Allengers Altima F100 uses state-of-the-art digital technology for superb performance, improved reliability, ease of use to meet the expectations of Interventionist to give a single solution for Cardiac, Vascular and Neuro Imaging.



Salient Features :

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- 1K x 1K / 1.5K x 1.5K resolution & High DQE of detector.
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- IVUS/FFR/OCT Integration (optional).

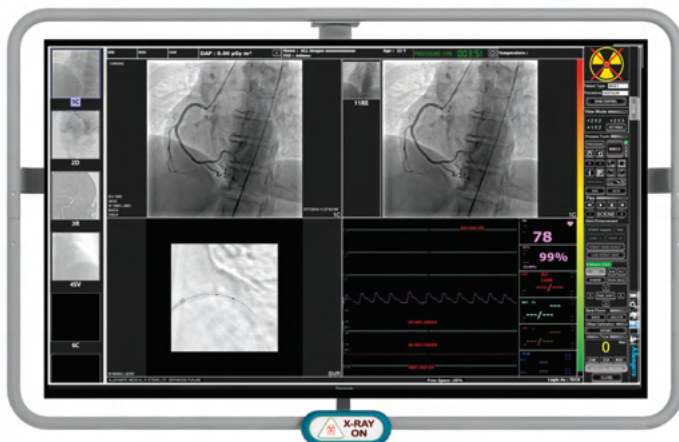
55" High Resolution, High Luminous Monitor



Multiple display 2 x 3

REAL DOSE "iDOSE" :

- Dose management display in real time.
- Frame rate settings.
- Tube heating can be controlled.
- Radiation dose can be controlled.



Multiple display 2 x 2

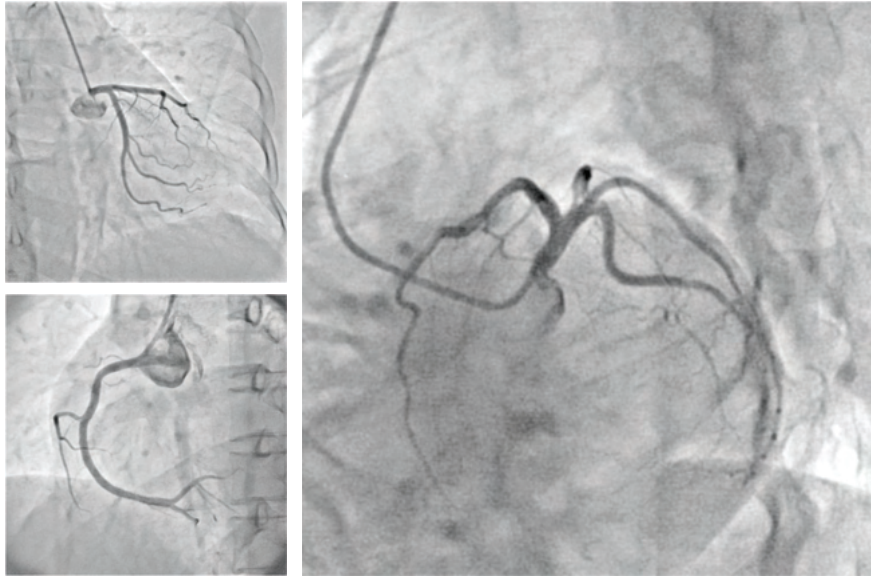


Multiple display 1 x 2

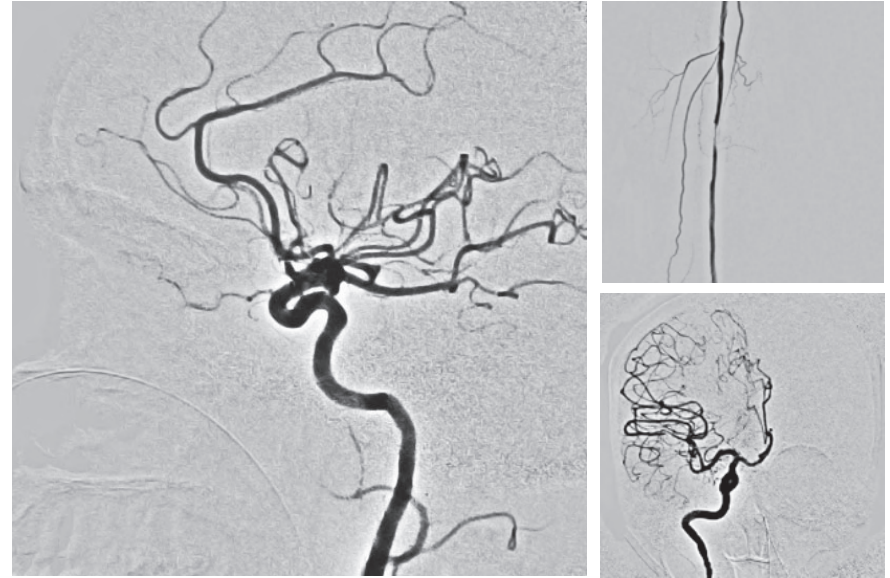


Clinical Images

"Keeping image quality high and radiation dose low is one of the key drivers in the development of our imaging portfolio."



Coronary Images

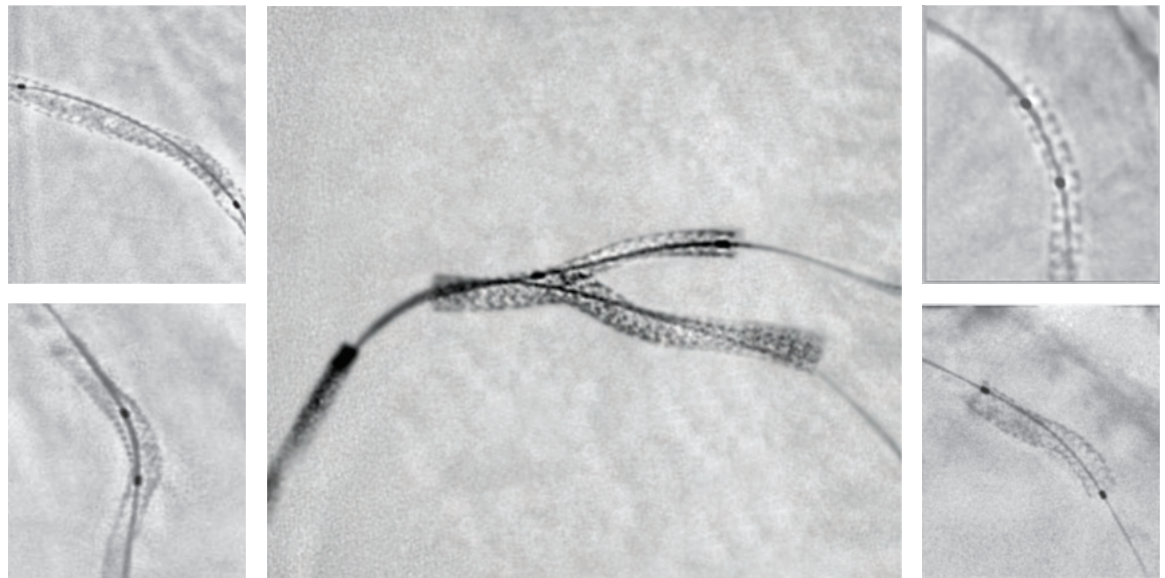


DSA Images

Stent View

Real time enhanced stent views

A deployed stent is sometimes hard to see which makes it difficult for the physician to judge proper outcome of the procedure. Stent view is a processing package that enhances the visibility of the deployed stent. Everything is fully automatic. The result is available in minimum processing time. Stent view is simple and easy to use that helps to improve the long-term success of the interventional procedure.



Patient Table

Altima Adv

- 8 Axis (longitudinal / transverse / vertical / rotational) movements.
- Extended table top for full body coverage.
- Radiolucent carbon composite table top.
- EM locks to stop movements at any desired position.
- Rotational swivel movement ($\pm 90^\circ$).

Table Side

Touch Monitor

Touch screen module provides easy access to the operator to select the frequently used functions along with image during the procedure. It can be placed on either side of the table.

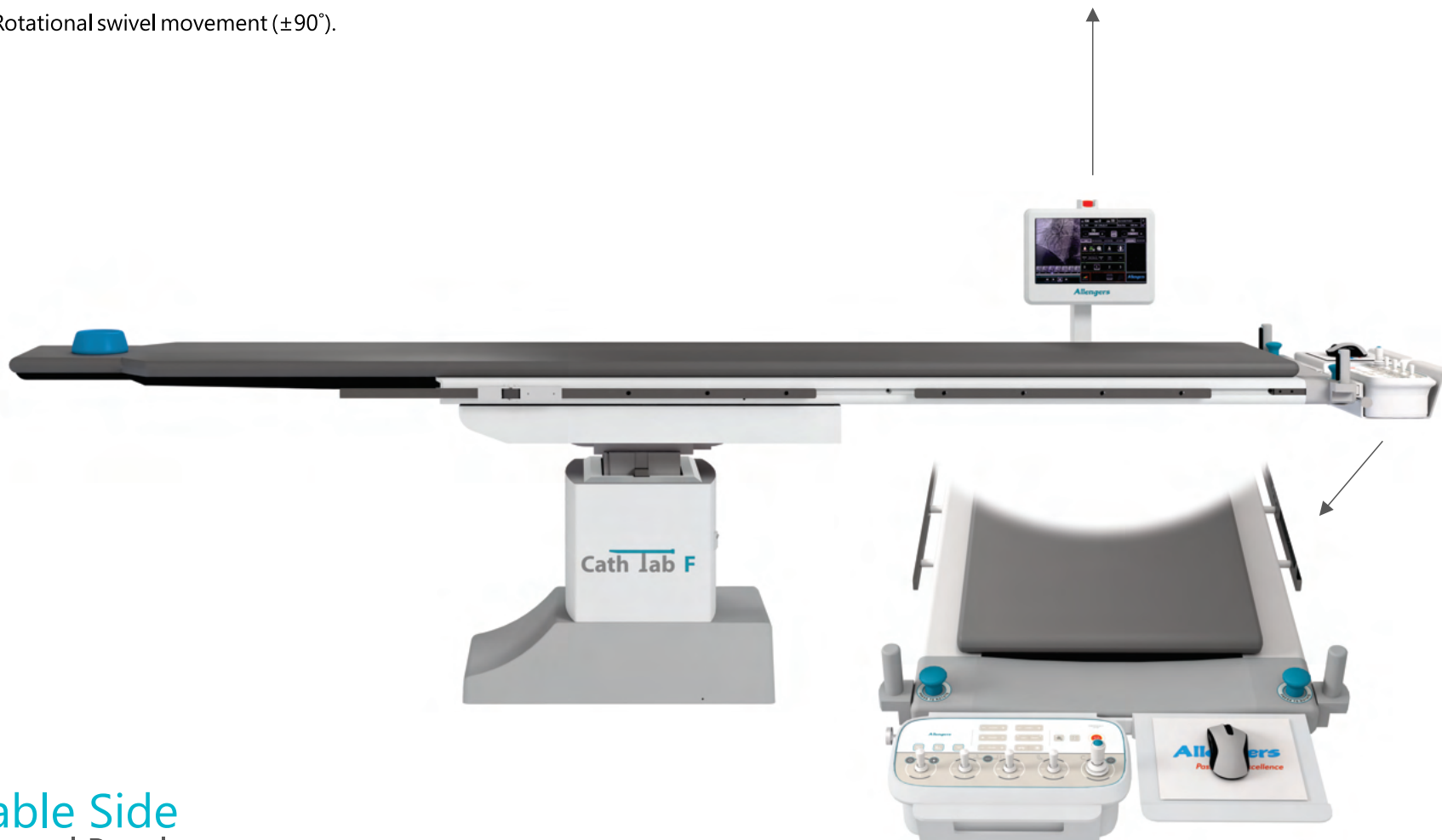


Table Side

Control Panel

Compact and user friendly unit which consists of all the controls for Cathlab gantry, Flat Panel Detector, Collimator and patient table with joy sticks. It also provides controls for post image processing like play, pause, scene $\pm$, DSA and road map.

Patient Table

Altima F100

- 8 Axis (longitudinal / transverse / vertical / rotational) movements.
- Extended table top for full body coverage.
- Radiolucent carbon composite table top.
- EM locks to stop movements at any desired position.
- Rotational swivel movement ($\pm 90^\circ$).

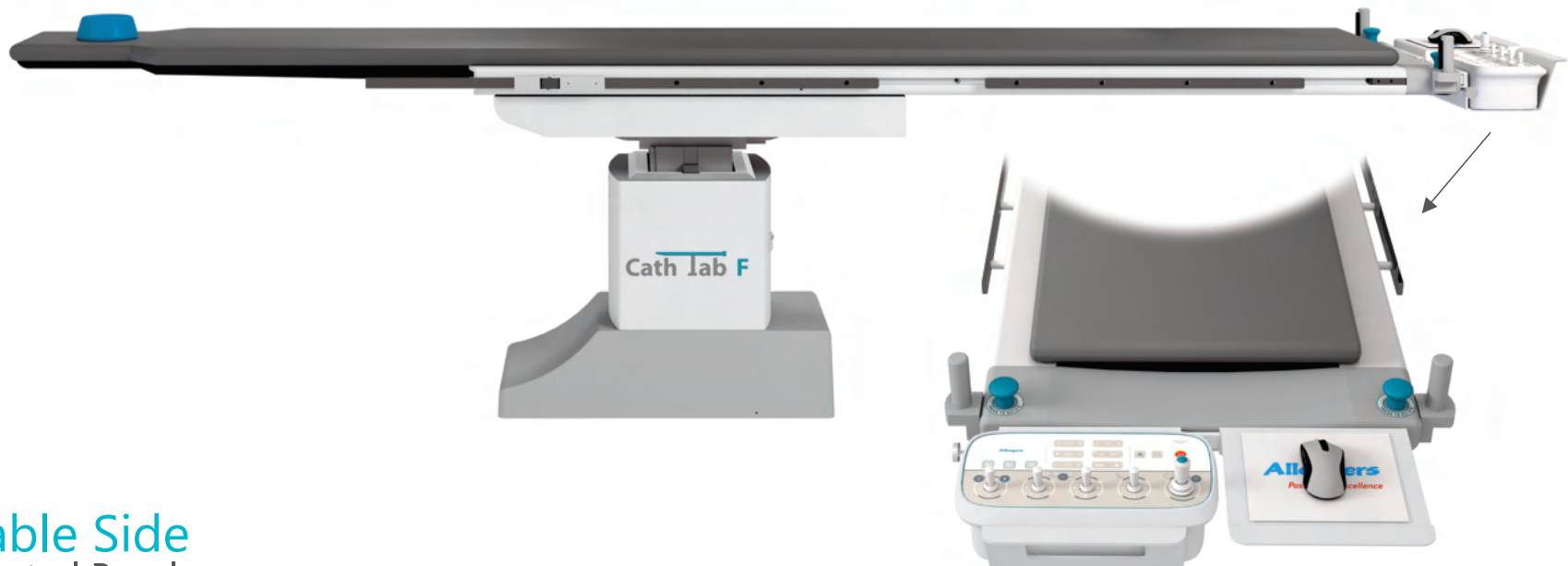


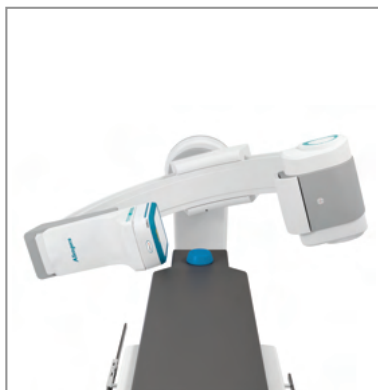
Table Side

Control Panel

Compact and user friendly unit which consists of all the controls for Cathlab gantry, Flat Panel Detector, Collimator and patient table with joy sticks. It also provides controls for post image processing like play, pause, scene $\pm$, DSA and road map.

C-Arm Movements

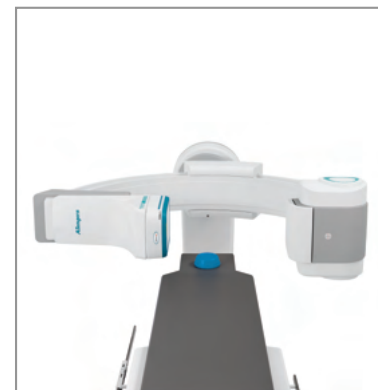
Addressing complex work flow through fast (speed up to 25° per second) and programmable movement control.



RAO (120°)



LAO (120°)



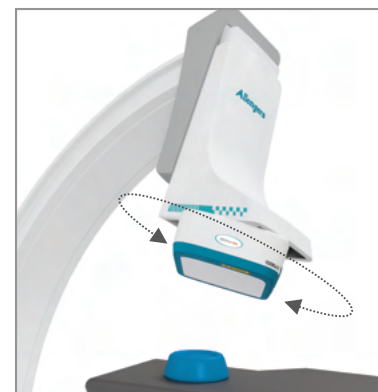
LAT ($\pm 90^{\circ}$)



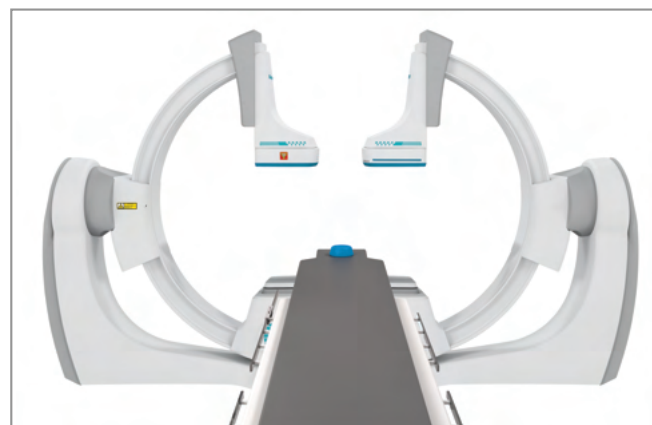
CRA / CAU ($\pm 45^{\circ}$)



Anti Collision Proximity Sensor
(Ensures safety to patient)

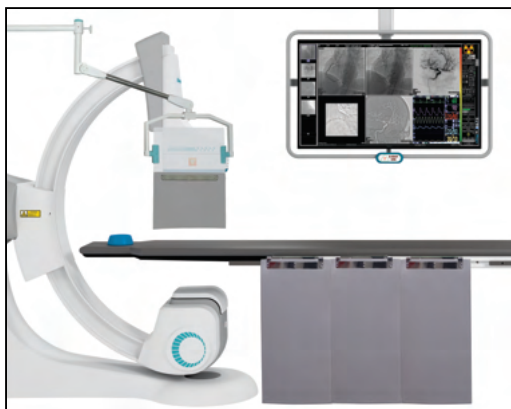


Rotational Movement of FPD
(Ensures all related views)



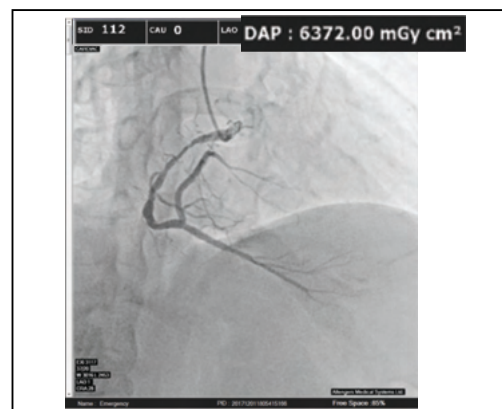
L-Arm Side Movements

Movement of L-Arm ($\pm 90^{\circ}$) helps in conducting various interventional procedures like Pacemaker Implantation, Radial and Peripheral Interventions.



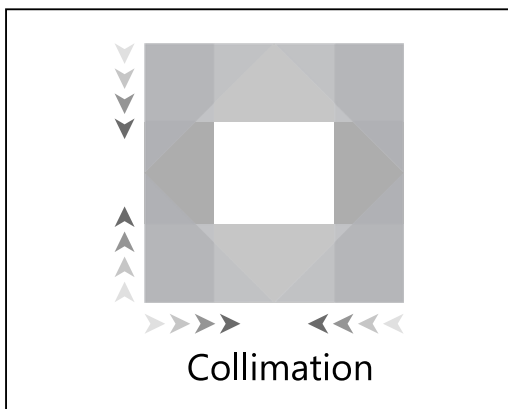
Upper / Lower Body Protection :

Ceiling suspended lead protection screen and lead flaps ensures radiation safety for upper and lower body.



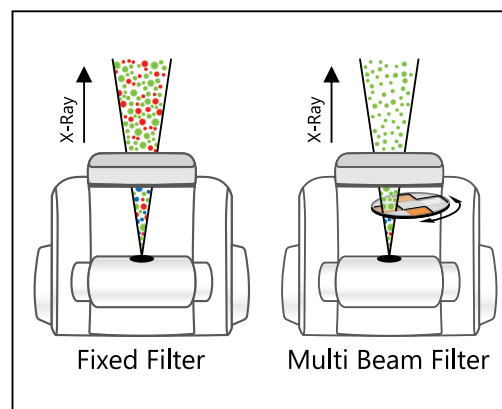
Integrated Dose Area Product Meter :

Measures the effective dose delivered and keeps the patient dose to the minimum.



Advanced Collimation System :

Equipped with an ultra-fast collimator for real-time fine adjustment of lead blades and a radiation-free preview mode, this system ensures precise field limitation and enhanced safety-minimizing patient exposure without the need for X-ray during positioning.



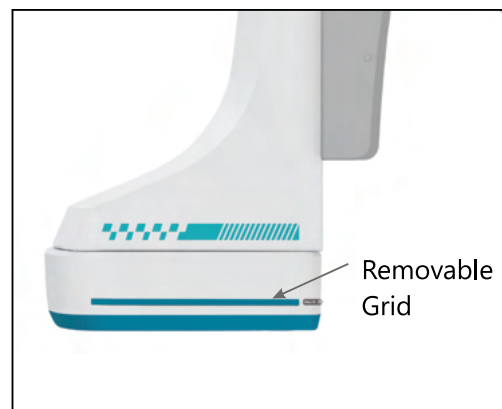
Multi Beam Hardening Filter :

Blocks soft radiation at all dose levels and keeps the dose constant at all levels of X-Ray exposure ensuring consistent image quality.



SID Control :

Variable Source to Image Distance reduces X-Ray dose by minimizing the distance between X-Ray source and image receptor.



Removable Grid :

It enables optimized imaging by reducing patient radiation dose, especially beneficial during pediatric and thin-patient procedures.

Console Room



Synergy Software for Imaging

- Image acquisition up to 30 fps in fluoro and cine.
- Fluoro store facility.
- Real time edge enhancement, positive / negative image display, window level adjustment, contrast / brightness, electronic collimator, vertical and horizontal image flip, image rotation, zoom with pan function.
- Measurements - length, angle, stenosis and area.
- QCA / QLVA.
- Efficient Digital Imaging Workflow (DICOM 3.0).
- DICOM 3.0 compatible image communication network.
- DICOM patient CD / DVD recorder. DICOM / paper print ready.
- Real time online DSA, road map, pixel shifting, re-masking and peak opacification (optional).

Monitors

- High resolution and highluminance monitors :
- 55" high resolution Live monitor with split screen at procedure room.
- 32" High resolution Live monitor for backup with split screen at procedure room.
- 43" High resolution Live monitor with split screen at Console room.
- 19"/21" DICOM monitor at console room.

Online Router for Remote System Diagnosis (optional)

- Secure connectivity.
- 24 x 7 remote assistance for remote diagnostics.
- Remote configuration and management for new software update.





Realize the hidden potential with
Altima's smart features and other
par excellence capabilities to enhance your
cathrooms peak performance

SMART Features

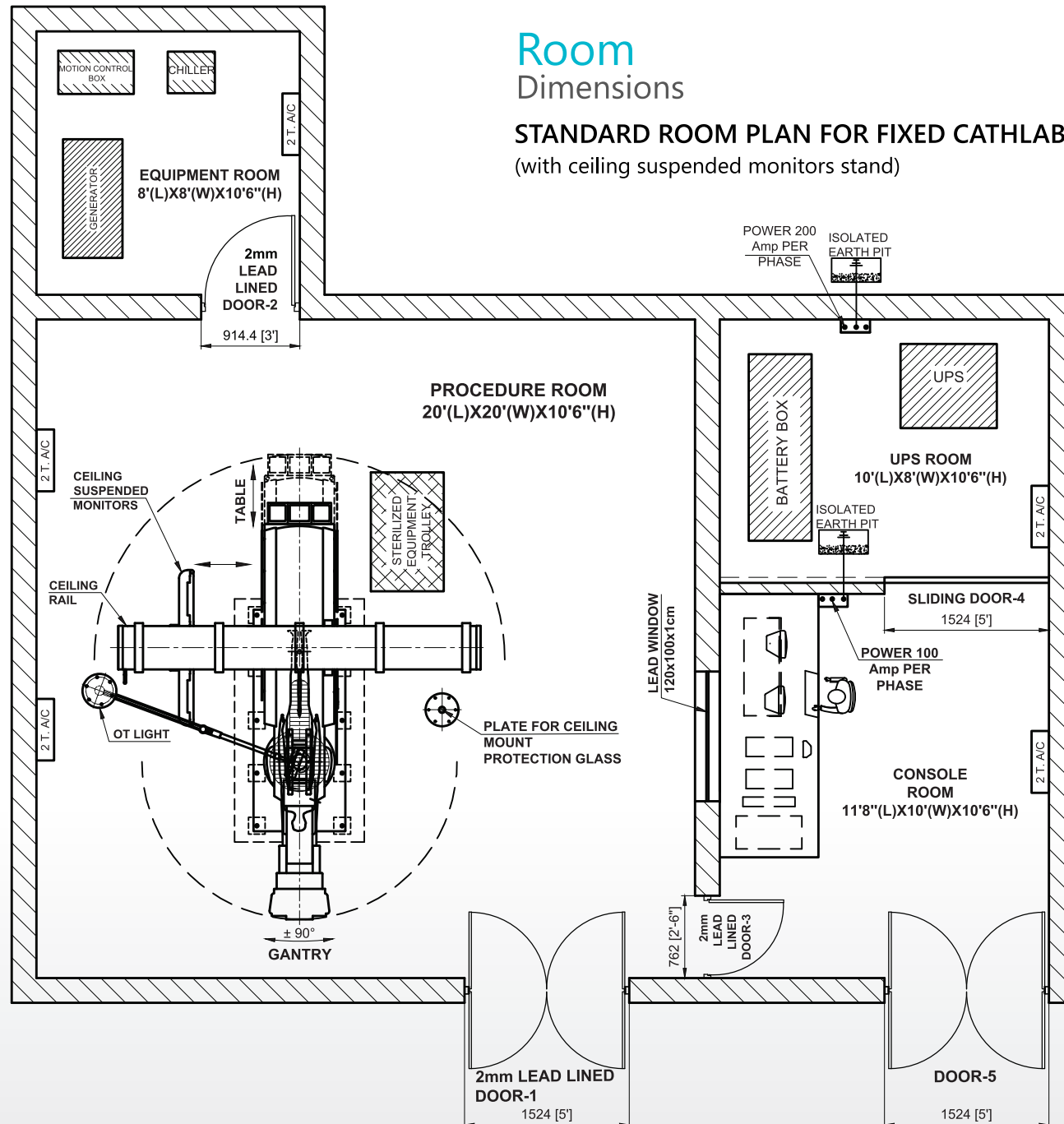
- S** **Smart quick collimator :**
Optimizes the radiation in real time.
- M** **Monitor is mounted on boom :**
Facilitates quick adjustments in any position.
- A** **Accurate dose wise program :**
Manages the dose very well.
MBF maintains the dose and keeps quality at its optimum.
- R** **Remote service :**
Facilitates easy software upgrades for improved experience.
- T** **Things kept simply effective :**
Same keys / same functions keeps things simple.

Other Features

- QCA can be performed simultaneously in console room while procedure is going on in the exam room.
- Multi-tasking is possible to save time. Instantly review the previous image while preparing for the next patient exam.
- HIS / RIS interface : Display of checklist and protocols from RIS / HIS saves time.
- Design based upon user feedback.
- Real time dose monitoring and dose management.
- **Uninterrupted power supply for complete equipment :**
 - Safety of the equipment from erratic power supply lines and poor earthing.
 - Avoid's total blackouts in critical moments during power failures.
 - Stable power supply adds to equipment life.

Room Dimensions

STANDARD ROOM PLAN FOR FIXED CATHLAB (with ceiling suspended monitors stand)



Product Information

Model	Allengers Pride HP	
Series	Altima Adv	Altima F100
Output Power	100KW	100KW

Power Requirement:- 400 VAC $\pm$ 10%, stabilized 3-phase of 50/60 Hz frequency, ground voltage $\leq$ 3 V



ASSURE Protocols : All X-Ray based equipments involve some potential risk of radiation exposure. We, at Allengers understand your concerns. Allengers is fully committed towards radiation safety and care of its customers.

Allengers has introduced ASSURE Protocols, which is a step in the direction of delivering best possible image quality at lowest possible dose. Allengers products with ASSURE Protocols are carefully crafted to protect users and patients from unwanted leakages in the X-Ray equipment.

ASSURE version mentioned is based upon highest configurations of safety standard protocols and is configuration dependant, which may vary for desired combinations.

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