

# Allengers

Passion for excellence

DISTRIBUTED BY  
**EURONOX**<sup>™</sup>  
EURONOX MEDICAL GROUP

Serving  
Healthcare  
since  
**1987**

Advance Angiography  
system for cardiac, neuro and vascular  
interventions under one roof

Successfully  
installed  
**525+** Cathlabs  
WORLDWIDE

## Fixed Cathlab Altima Series

With New "Synergy" Software

Quality, System and Safety Certifications



AERB APPROVED

## Altima Adv

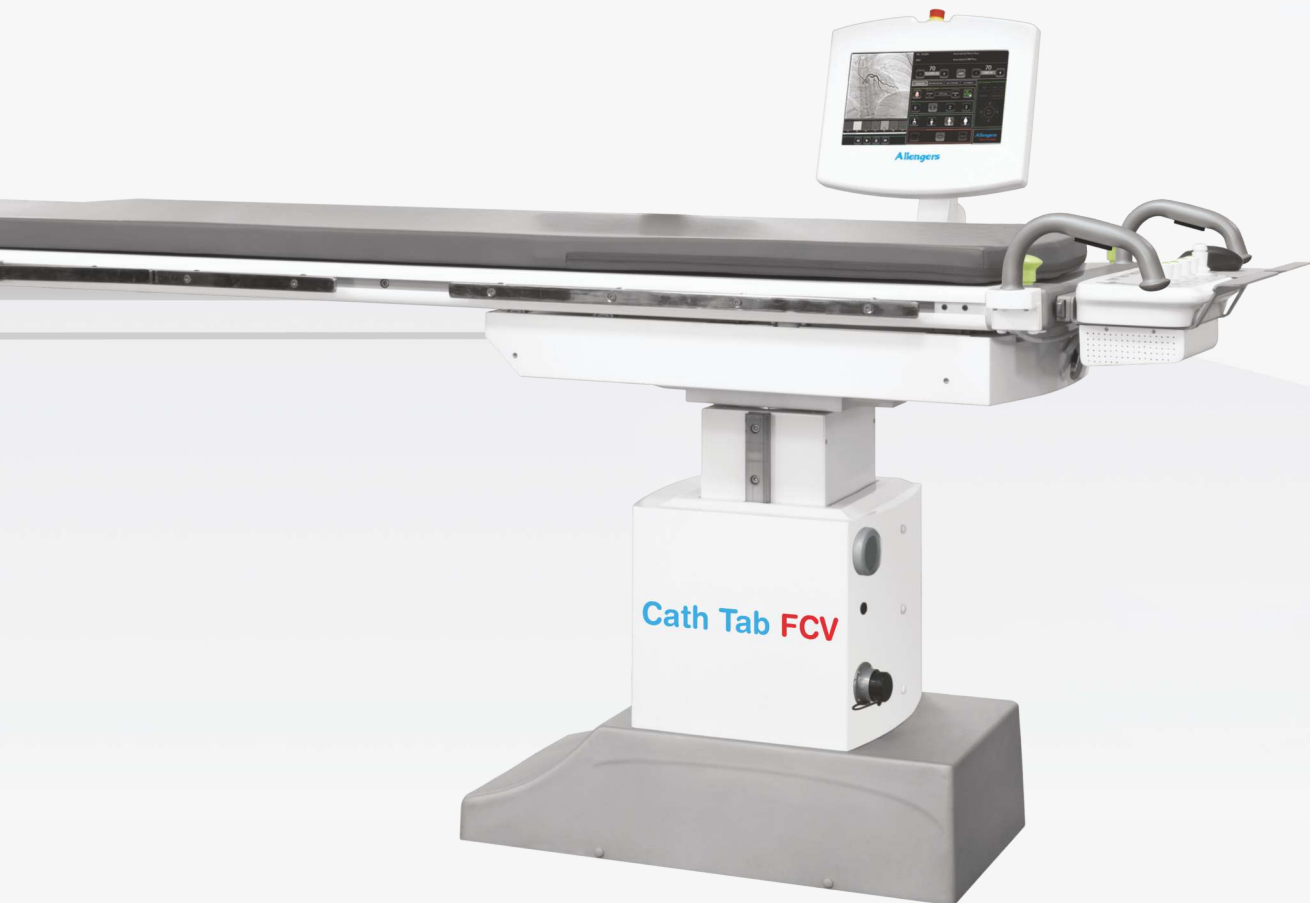
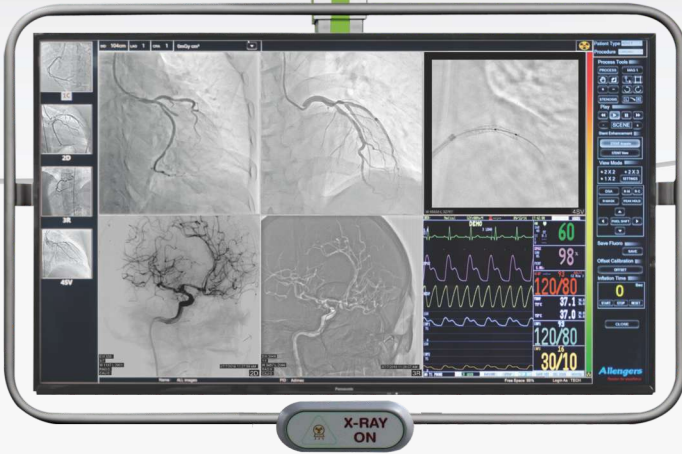
Allengers-Altima Adv uses state-of-the-art digital technology for superb performance, improved reliability, ease of use to meet the expectations of Interventionalist to give a single solution for Cardiac, Vascular and Neuro Imaging.



### Salient Features :

- Detector size 20 x 20 cm / 30 x 30 cm.
- 1K x 1K / 1.5K x 1.5K resolution & High DQE value.
- 55" high resolution, high luminous coloured monitor with multiple display options / medical grade monitor.
- Distortion free imaging.
- 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.
- Rotational Angiography available.
- More angles in LAO / RAO (-120° to +120°).
- Longer cathlab table for head to toe coverage.
- Integration / Interfacing of FFR, IVUS & OCT.
- QCA & QLVA

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



## Altima F80 / F100

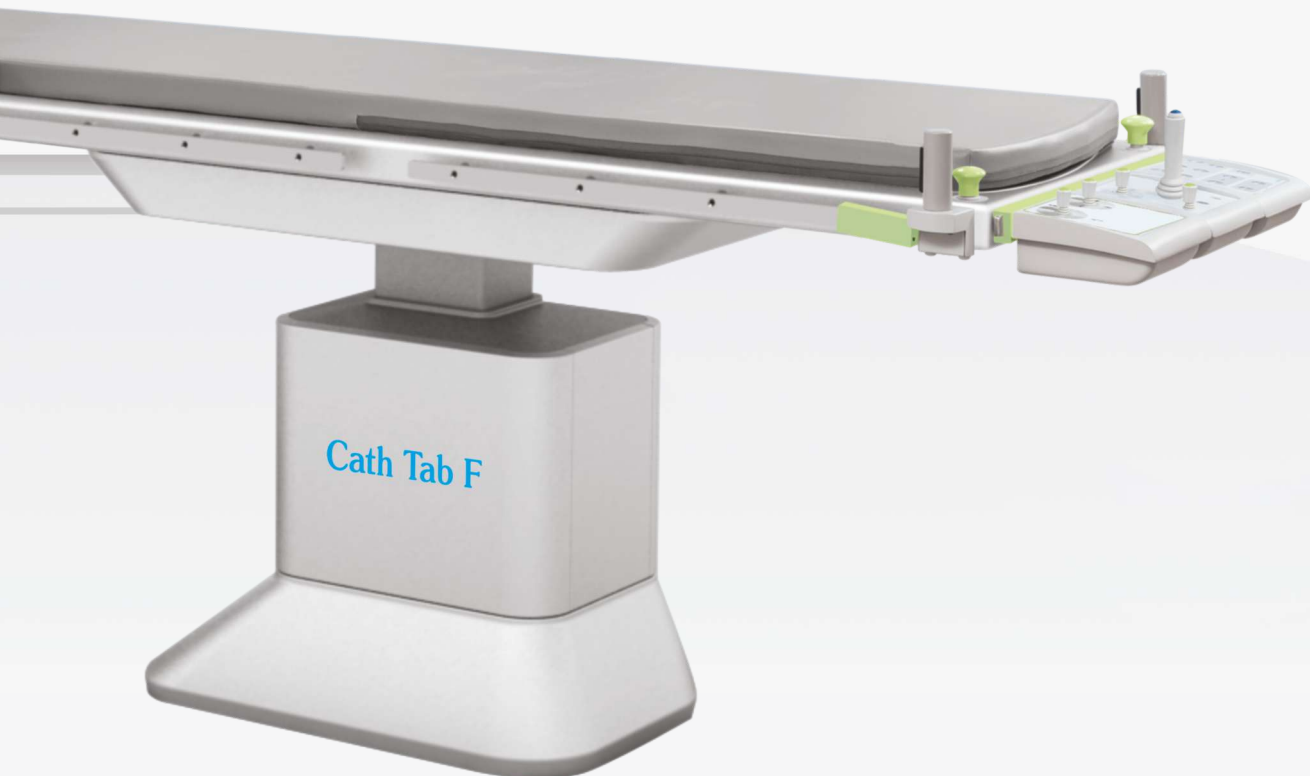
Allengers-Altima F80/F100 uses state-of-the-art digital technology for superb performance, improved reliability, ease of use to meet the expectations of Interventionalist to give a single solution for Cardiac, Vascular and Neuro Imaging.



### Salient Features :

- Detector size 20 x 20 cm / 30 x 30 cm.
- 1K x 1K / 1.5K x 1.5K resolution & high DQE value.
- 55" high resolution, high luminous coloured monitor with multiple display options.
- Distortion free imaging.
- Motorized rotation and up / down movement of detector.
- 80 KW / 100 KW dual inverter based generator.
- Liquid metal tube for toughest clinical demands (only for 100 KW).
- Online Digital Subtraction Angiography.
- ASSURE Protocols for radiation protection.
- Stent view.
- QCA & QLVA

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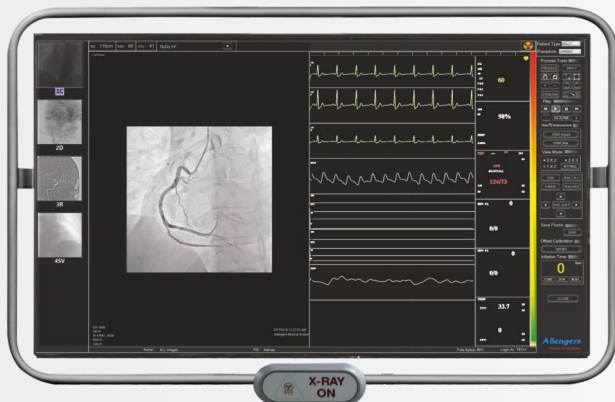




Multiple display 2 x 3



Multiple display 2 x 2



Multiple display 1 x 2

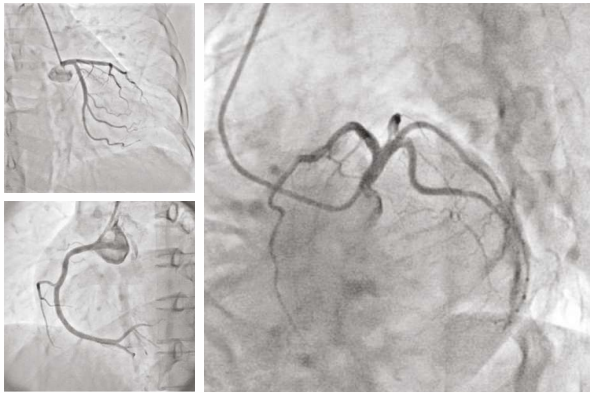
### REAL DOSE "i DOSE" :

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

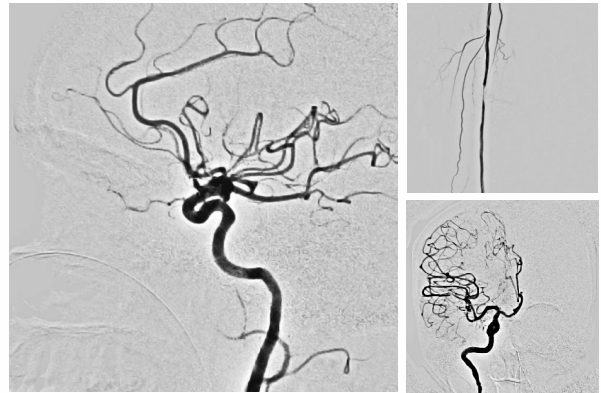


# Clinical Images

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



Coronary Images

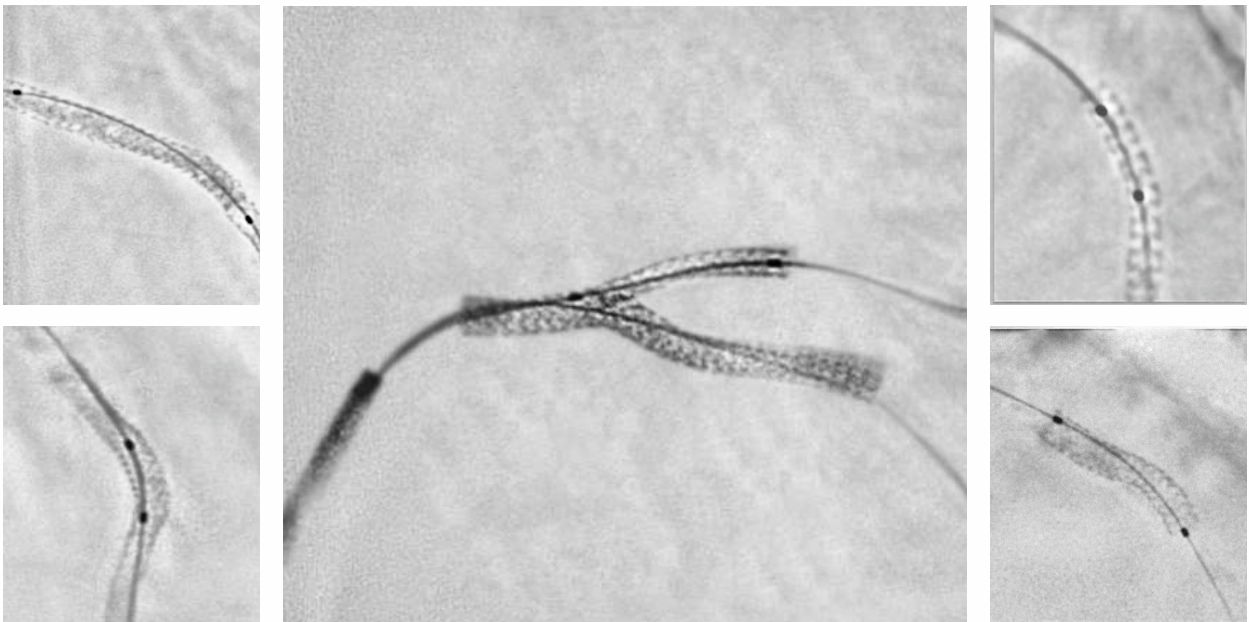


DSA Images

# 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.

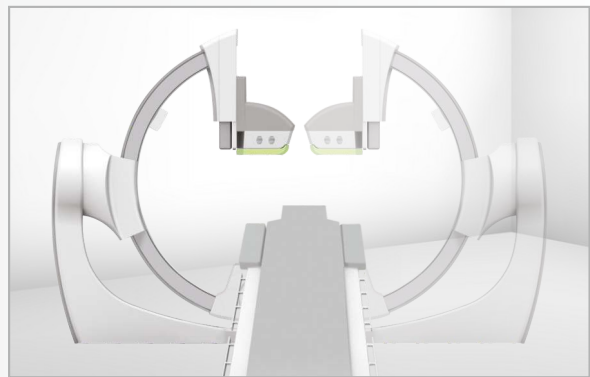


# C-Arm Movements

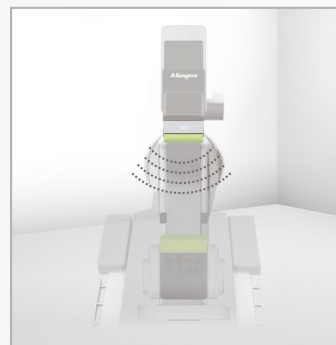


# L-Arm Side Movements

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



Rotational Movement of FPD  
(Ensures all related views)



Anti Collision Proximity Sensor  
(Ensures safety to patient)



# 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.



## Table Side

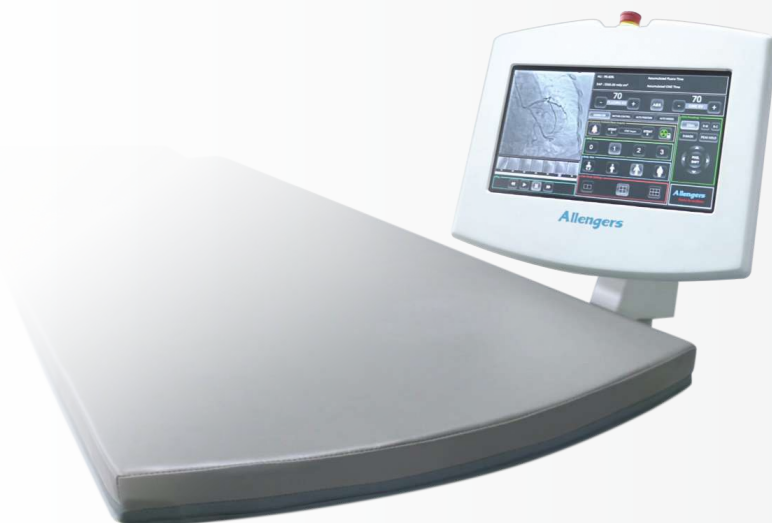
### Control Panel

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.

## Table Side

### Touch Monitor

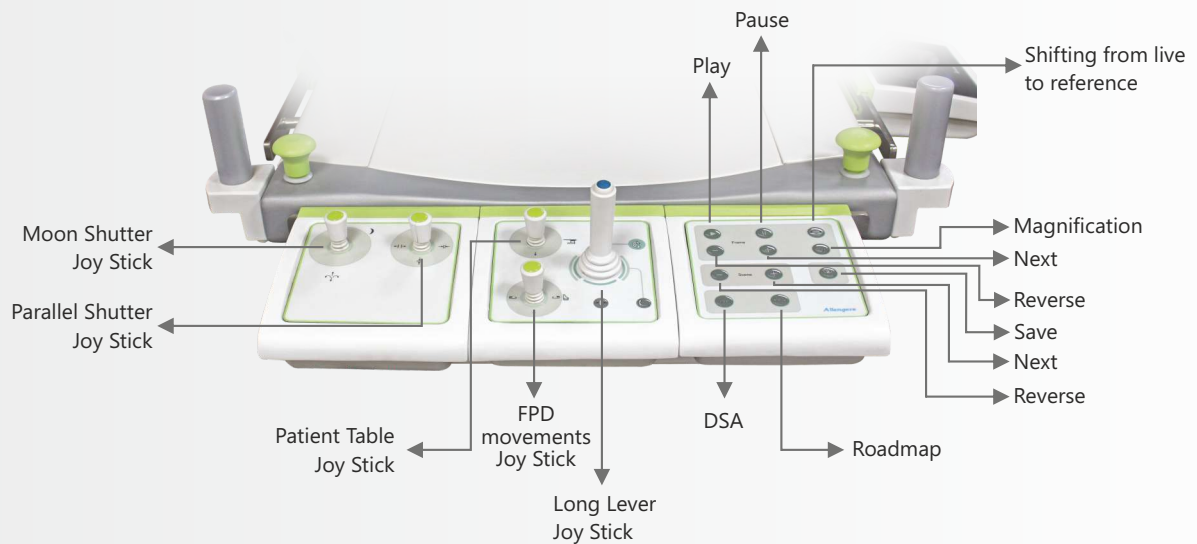
Touch screen module provides easy access to the operator to select the frequently used functions along with image during the procedure. It can be placed on either side of the table.



# Patient Table

Altima F80/ F100

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.





Allergens ASSURE Protocols mechanism ensures minimum radiation dose to the operational staff and patient in procedure room. ASSURE Protocols uses different devices to control the primary beam and scattered radiation and keeps them far below the safe radiation limits.

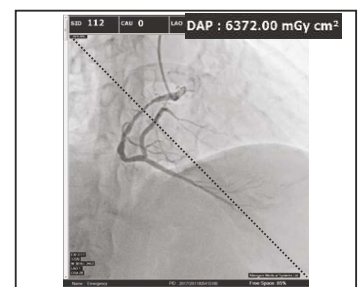
### Upper / Lower Body Protection :

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



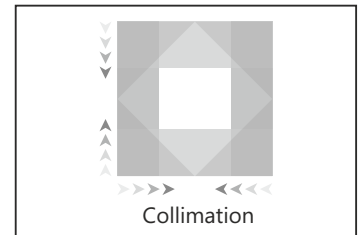
### Integrated Dose Area Product Meter :

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



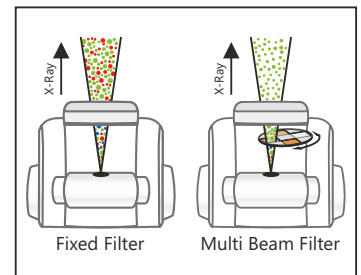
### Radiation Free Preview Collimator :

Radiation free preview collimator can be applied at any desired location without X-Ray exposure.



### Ultra Fast Collimator :

Ultra fast collimator with fine adjustment of LEAD blades to block extra radiation in REAL TIME.

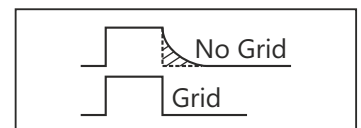


### Multi Beam Hardening Filter:

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

### Grid Switching :

Reduces soft X-Ray dose to the patient by eliminating the TAIL of exposure pulse.



### SID Control :

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



# Console Room



## SYNERGY SOFTWARE

### Imaging Software :

- Image acquisition up to 30 fps @ 1K x 1K/1.5K x 1.5K resolution 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).
- Boostage software for lumen view and fluoro save.

### Monitors (2 Nos.):

- High resolution and highluminance monitors:
  - 1 No. 27" Live Monitor
  - 1 No. 19" Monitor / 27" Monitor

### CISCO ROUTER FOR REMOTE SYSTEM DIAGNOSIS

- 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 :

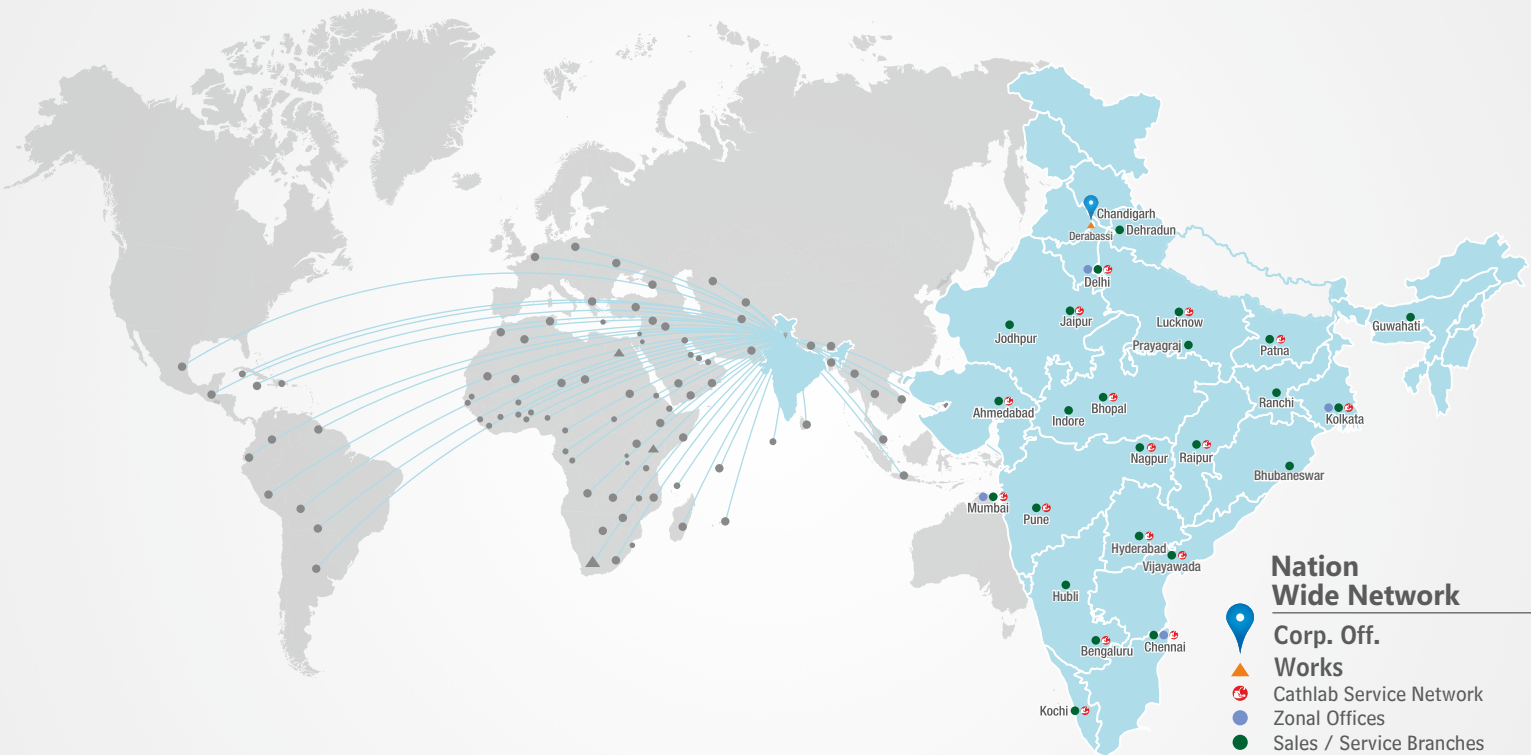
- QCA can be performed simultaneously in console room while procedure is going on in the exam room.
- Multi-tasking is possible to save time. Instantly review the previous image while preparing for the next patient exam.
- HIS / RIS interface : Display of checklist and protocols from RIS / HIS saves 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.

Global  
Presence

Apart from a Nation wide service network of Cathlabs, presently, exporting to more than 100 countries in the continents of Africa, Asia, South America, Europe, Middle East and CIS.



**MAXIMIZE YOUR UPTIME**  
*with our wide service network*



Successfully  
installed  
**525+** Cathlabs  
WORLDWIDE



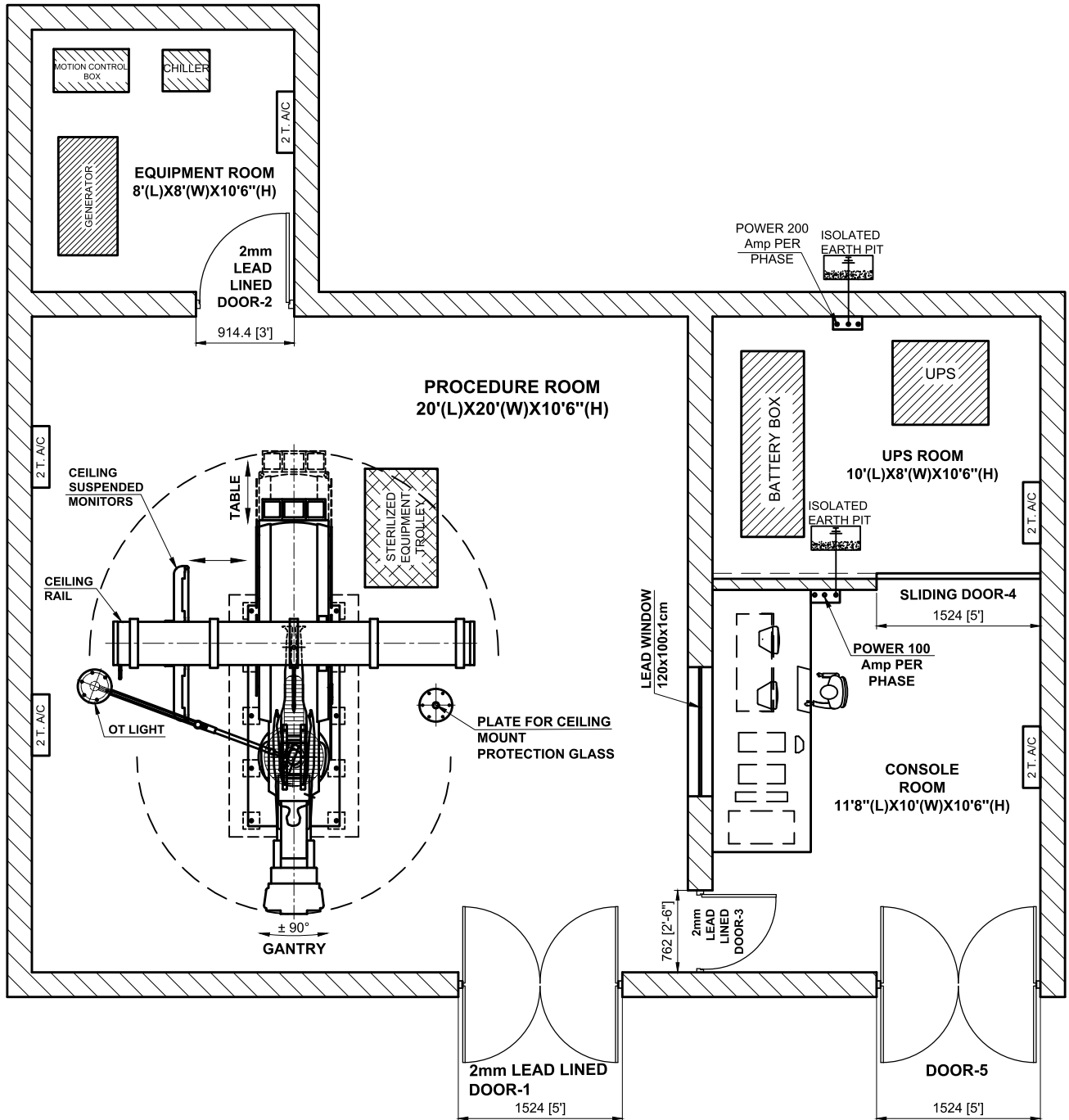
*Lightning response .....  
..... with a solution*



Toll Free : 1800 266 8800 (India)

# Room Dimensions

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



## PRODUCT INFORMATION

Model	Allengers Pride HP		
Series	Altima F80	Altima F100	Altima Adv
Output Power	80KW	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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