Allengers

Passion for excellence

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EURONOXX™

EURONOXX MEDICAL GROUP

Digiscan

Breakthrough Innovation ...
... In FPD C-Arms Technology

8th GENERATION
HF C-Arms

Digiscan
V20/V30 Series
C-Arm with Dynamic Flat Panel Detector (FPD)

Allengers
HF 59R

Serving Healthcare since 1987

Quality, System and Safety Certifications

bsi. CE 2797 | bsi. ISO 13485:2016 | intertek | TÜV SÜD ISO 9001:2015 | AERB APPROVED | BIS APPROVED

ABOUT US

Allengers since 1987, is revolutionizing the medical world with its offering of a wide range of high quality, cost effective state of art technology medical equipment from its headquarters at Chandigarh.

Thanks to the trust and confidence of our valued customers, Allengers has emerged as a fine, world class company and a major force to reckon with in the medical equipment field.

MANUFACTURING UNITS

One of the India's largest manufacturing facilities - Spread over an area of 1,00,000 Sq. Mtrs.

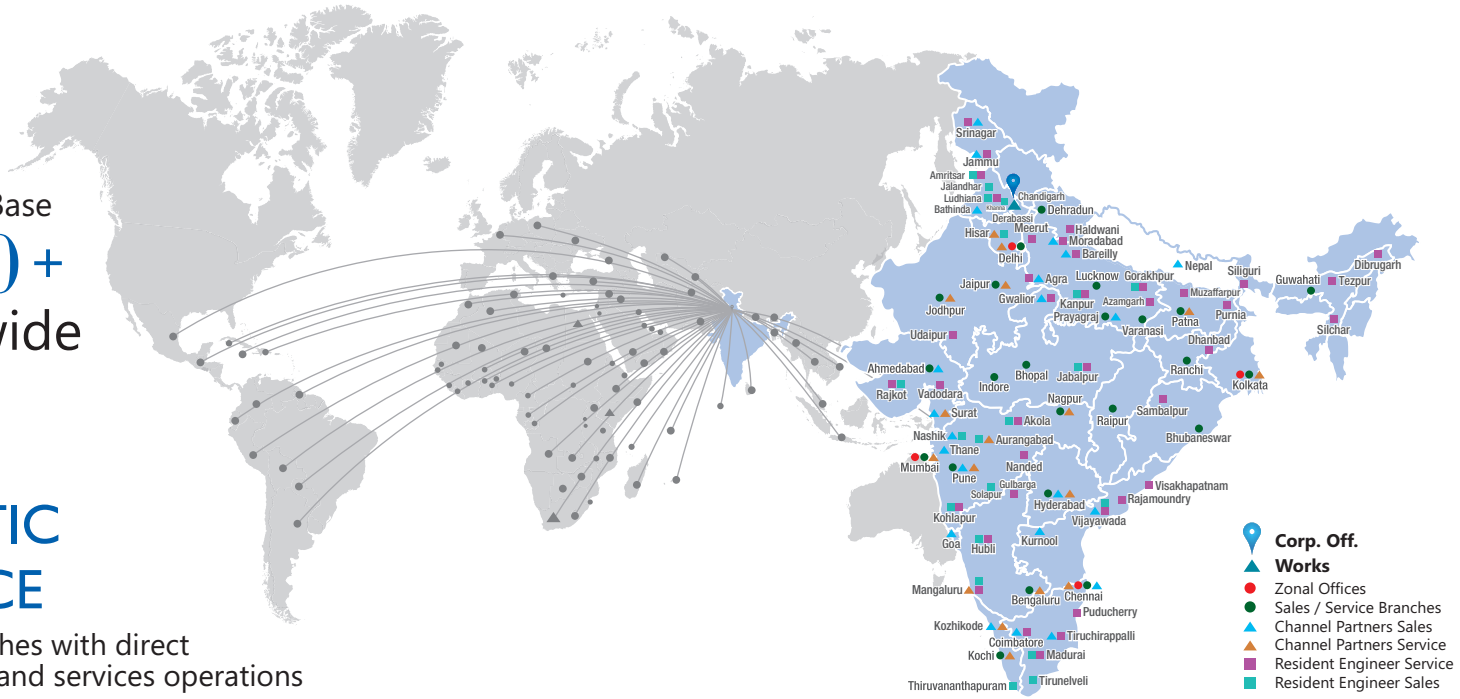
GLOBAL PRESENCE

Presently, being exported to more than 100 countries in the continents of Africa, Asia, South America, Europe, Middle East and CIS

Installation Base

80000 +

Worldwide



DOMESTIC PRESENCE

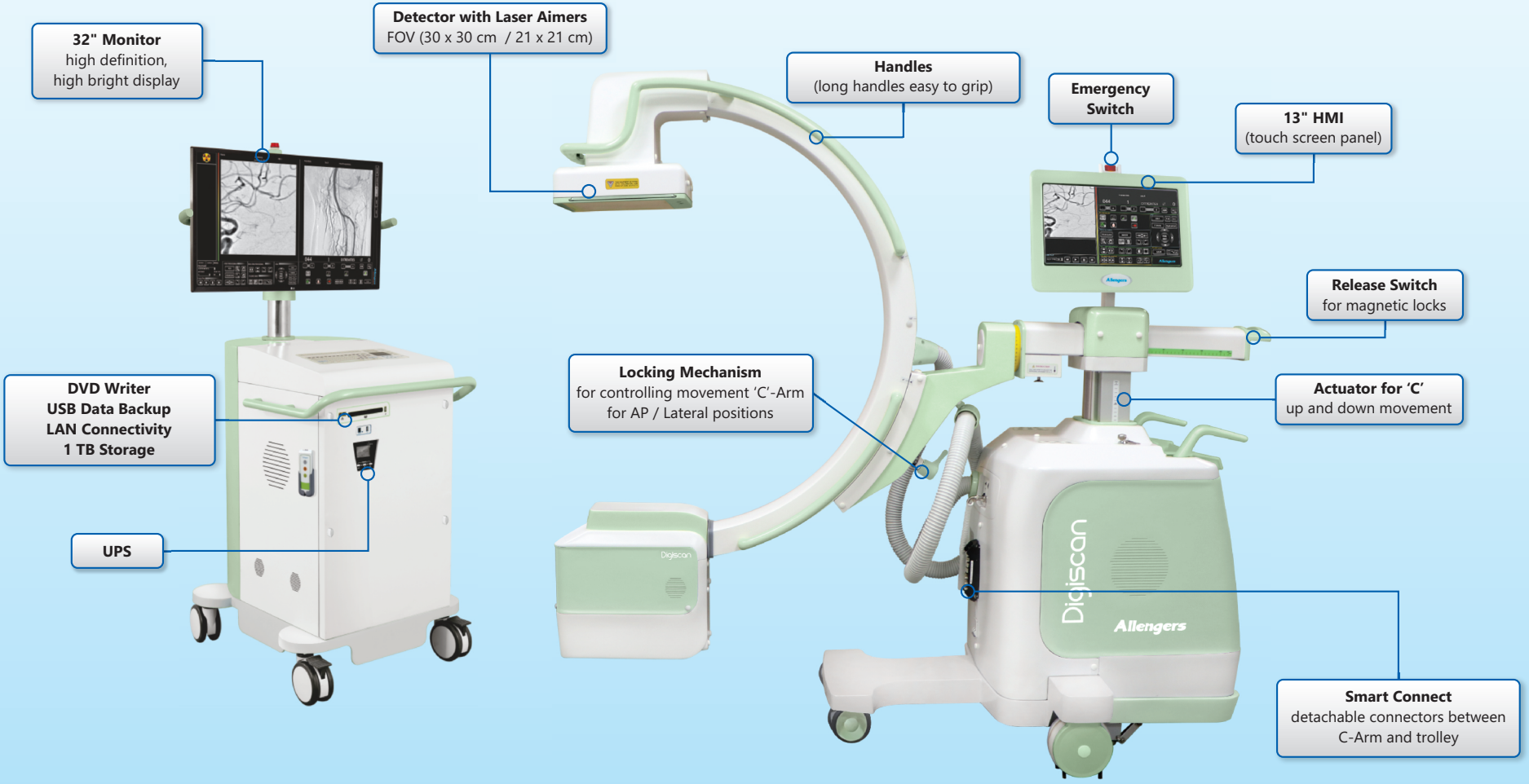
✓ 26 branches with direct sales and services operations

✓ 44 Exclusive and non-exclusive Channel Partners

Digiscan Series

Allengers introduces top end indigenously developed high frequency C-Arms with the Dynamic Flat Panel Detector (FPD) which gives results in few seconds with excellent image quality.

Easy to operate makes it best in the segment. Its touch screen panel gives the operating team a next generation experience and enhances the overall workflow in all the applications.



SALIENT FEATURES

01

FPD
DYNAMIC

16 bit , 30 FPS , A-Si Flat Panel Detector. Gives real time high contrast distortion free images

02

HMI

Touch screen panel mounted on the horizontal carriage. This panel shows the control console as well as real time image for the ease of operation for the C-Arm operator.
It helps the operator to position the C-Arm by looking at the live image. Multi-dimensional swivel feature of the panel assembly makes it easy to align in any direction as per the convenience of the operator.

03

METAL
DETECTION

Real time image processing technique to improve the visibility of anatomy in presence of metal implants.
This feature ignores the effect of metal implants while stabilizing the brightness of the image.

04

SELECTABLE
DOSE LEVEL

3 level dose control facilitates the user to select the lower radiation dose with minimal compromise on the image quality.

05

DYNAMIC
NOISE FILTER (DNF)

Real time image processing technique useful in minimizing the image noise even if the anatomy is moving.

Conventional noise removing methods add motion lag while imaging a moving anatomy.

06

DOSE
DISPLAY

Real time dose calculation and display keeps the track of dose given to the patient.
Necessary measures like reducing the frame rates or switching to low dose mode can be taken by the user accordingly.

07

REMOTE
SERVICE MODULE

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

08

CARBON
FIBRE GRID

Carbon fibre grids offers extremely low attenuation to X-Ray beam and reduces the patient dose.

09

FAST ABS

New digital "Feedforward" method of controlling the ABS is very efficient in reducing the exposure settling time.
Correct dose levels are reached much faster than the conventional "Feedback" based ABS.

FEATURES

Smooth
Pulsed fluoroscopy

Precise
With the help of laser centering

Convenient
One click procedure selection

Easy Manoeuvring
Because of actuators and magnetic locks

- DSA package.
- Preview collimation.
- Neuro navigation compatibility.
- Cine mode is used upto 150 frames / loop.
- Complete DICOM based system makes it easy to share and archive patient images and data.
- Optimised digital SPOT algorithms to produce excellent image quality at extremely low dose.
- Better image quality at lower dose because of higher DQE and advanced image processing.

DIGISCAN POWERED BY
SYNERGY IMAGING SOFTWARE

Synergy software empowered with :

- Presets for diverse applications.
- Best image capturing, processing, and archiving technology.
- Image Acquisition : Image processing with real-time image capturing, storage, and display in (1K x 1K / 1.5K x 1.5K)* format.
- More than 1,50,000 images storage capacity in (1K x 1K / 1.5K x 1.5 K)* format.
- User preference: customized user selectable imaging parameters.

**Depending on the FPD size*

FPD

Compact Detector Captures Larger Field of View

In addition to yielding a larger field of view, placing the detector closer to the patient minimizes magnification, provides more detail, and results in less skin dose.

Dynamic Flat Panel Detector (FPD)
16 bit , 30 FPS ,
A-Si Flat Panel Detector.
Gives real time high contrast distortion free images.

→

Larger Field of View (FOV) gives wider coverage.

→

We can see more anatomy with larger FOV of every patient whatever be the anatomy or size.

21 cm x 21 cm

30 cm x 30 cm

WE CAN DO IT ALL
BEING AT SAME PLACE

180° rotating **HMI** (touch screen panel)

HMI

Touch Panel Control

HMI - touch screen panel mounted on the horizontal carriage. This panel shows the control console as well as real time image for the ease of operation for the C-Arm operator.

It helps the operator to position the C-Arm by looking at the live image. Multi-dimensional swivel feature of the panel assembly makes it easy to align in any direction as per the convenience of the operator.

Procedure Selection :

- Different types of procedures require different parameters.
- It provides a pre-set list of acquisition settings grouped by types of exams procedures, depending on different streams (e.g. Neuro, Uro, Ortho, Gastro).
- The system automatically applies the parameters to get required image quality.
- Laser centering (precise). Symmetric shutters (rotational). Factors adjustments.
- Averaging. Magnification.

Post Exposure :

- Window Width (WW) and Window Level (WL) adjustment for brightness and contrast.
- Image transfer (L to R). Invert. Zoom (magnification). Flip / rotation.

Clinical
Images

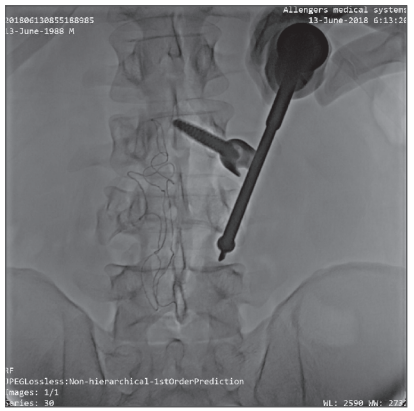
Dedicated to provide excellence in imaging during special procedures in :

Orthopedics | Spine / Neuro Surgery | Urology | Cardiology | Gastroenterology | Peripheral / Vascular Angiography | Pain Management

Tibia Nailing

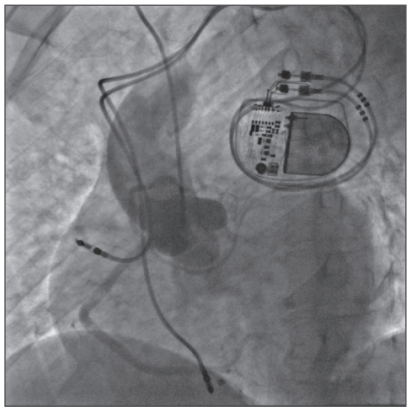
Pedicle Screw Fixation

ERCP Procedure



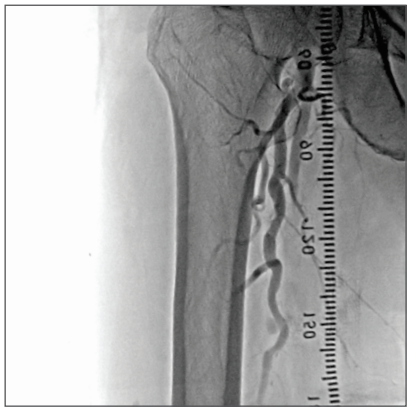
Pedicle Screw Fixation
(with Metal Compensation Feature)

PCNL



Pacemaker Implantation

Peripheral Angiography



Vascular Angiography

MAJOR TECHNICAL SPECIFICATIONS*

Model	HF 59R	
Series	Digiscan V20	Digiscan V30
Power Output	15 KW	
Detector Size	21 cm x 21 cm	30 cm x 30 cm
X-Ray Generator	High Frequency Technology	
X-Ray Tube	Rotating Anode	
Tube Head	Monoblock	
X-Ray Tube Focal Spots	Dual	
Exposure Modes	Pulsed Fluoro, Pulsed Cine and Digital spot / Radiography	
Imaging Chain	Digital Flat Panel	
Flat Panel Detector (FPD)	Amorphous Silicon (a-Si) with Cesium Iodide (CsI) conversion screen, A/D conversion : 16 bit	
Acquisition Software	Synergy FP-CR	
Collimator	Full parallel lead shutters with preview	
Monitor	1 No. 32" monitor (Standard) / 2 Nos. 19" or 21" monitors (Optional)	
HMI Touch Screen Panel	13" touch screen panel mounted on the horizontal carriage	
DSA	Peripheral Procedures	
Power Supply Requirement	230 VAC, single phase supply of 50/60 Hz frequency with line regulation of ± 10%	

*These are broader specifications with highest certifications. The final product will be dispatched as per agreed terms in quotation.

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

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