

# Digiscan

8<sup>th</sup> GENERATION  
**HF C-Arms**

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



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

**Allengers**  
HF 59R



Quality, System and Safety Certifications



## 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.

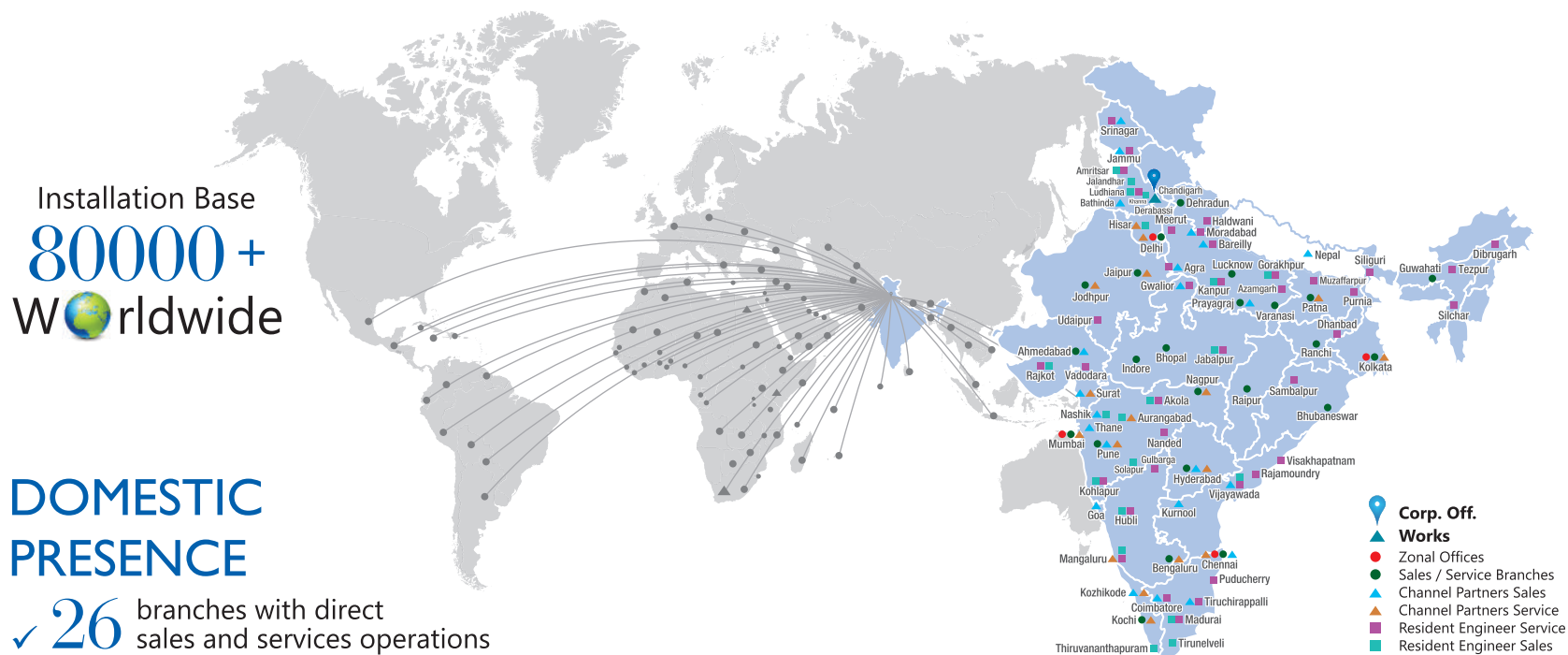
Thanks to the trust and confidence of our valued customers, Allengers has emerged as a fine, world class company and a major force to reckon with in the medical equipment field.

## 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



# DOMESTIC PRESENCE

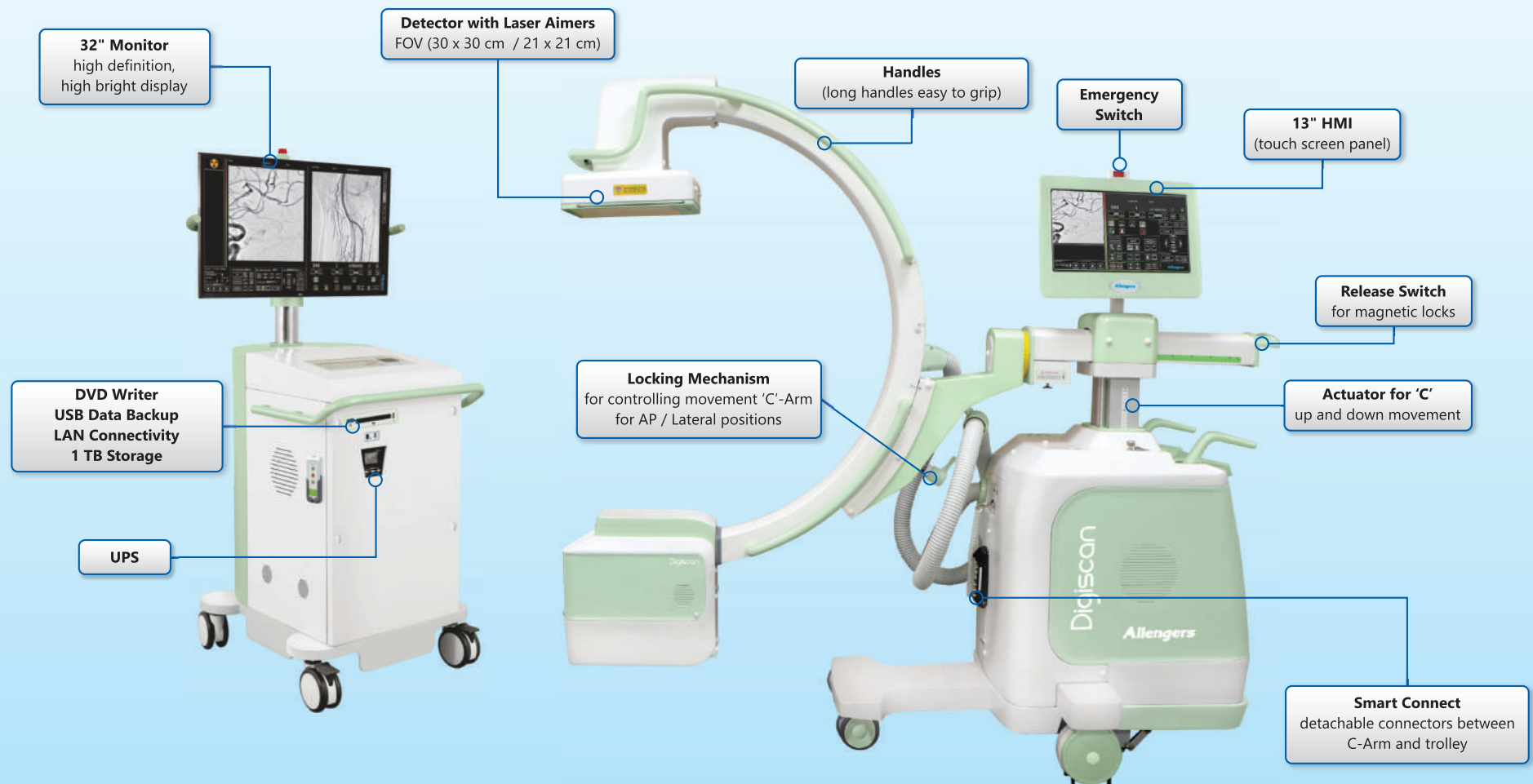
✓ **26** branches with direct sales and services operations

✓ 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.



# S A L I E N T F E A T U R E S

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.

### DOSE MODE

Quarter

Half

Full

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<sub>ABS</sub>

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.



## WE CAN DO IT ALL BEING AT SAME PLACE

180° rotating  
HMI  
(touch screen panel)



## 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.

# HMI

# 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



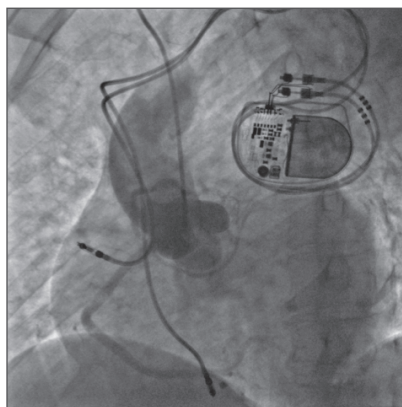
ERCP Procedure



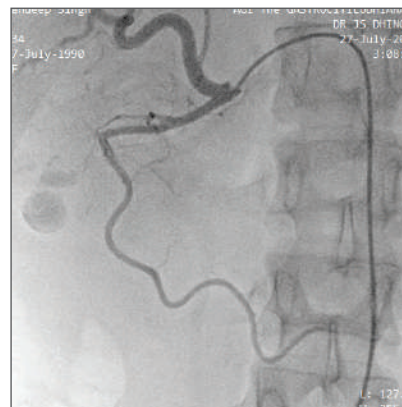
Pedicle Screw Fixation  
(with Metal Compensation Feature)



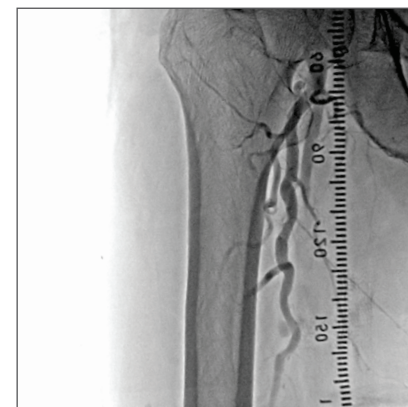
PCNL



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 $\pm 10\%$        |               |

\*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.**

FOR ANY ENQUIRIES CONTACT US

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