

Made In India For the World

Redefining

MEDICAL IMAGING

Standards



GOOD
DESIGN
AWARD
2019



reddot design
award 2018



8th IIT
DESIGN
EXCELLENCE
AWARD
2018 WINNER



CE
2265

About Us

IITPL is a unique amalgamation of strengths in Cath Lab Design and Manufacturing, X Ray Imaging, Software and Interventional Cardiology Consumables.

The Three promoter groups



VJ Technologies
New York



Innovation Healthcare
New Delhi



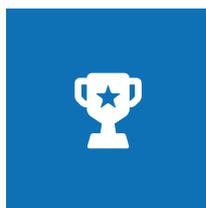
Ex Alpha X Ray Promoters
Germany and India

Bring a combination of strengths that are unique and complementary resulting in the development of the Pinnacle and Pinnacle Agile Cath Labs – the fastest growing and the most awarded Cath Lab of India in 2018. The promoters of the company have a vision of creating truly differentiated solutions in Medical Imaging and offering solutions that make Medical Imaging more effective and accessible.



132*

The Fastest Growing Cath Lab of India in 2018 – 132 units sold, 105 installed in 40 months



10*

The Most Awarded Cath Lab of India in 2019– 10 National and International Awards



55*

Pinnacle Agile – Sold 55 Cath Labs since its launch in February 2019



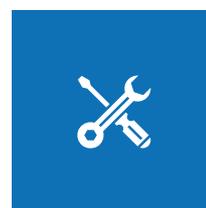
89%*

80% customer satisfaction across 105 installation



Dec' 21*

Next Generation Cath Lab Under Development - Prototype in December' 21



48 Hrs*

Less than 48 Hrs of downtime at any installation since inception

* Data as of September 2021

Pinnacle Family of Cath Lab



CE
2265



The Most Versatile Cath Lab in the Market

Pinnacle Agile[®] with enhanced mobility options



Pinnacle Agile[®], one of the most versatile cath labs in the market

Agile gives Interventionalists the freedom to do any Cardiovascular, Neurovascular and Peripheral Vascular Procedure with Ease.

Sharp, High Resolution Clinical Images

Visualise the most distal and tortuous vessels with our High Definition Flat Panel Detector, a First-in-Industry

A.S.P.I.R.E[®] Advanced Supercomputing Based Pinnacle Resolutions

Proprietary Super Computing Algorithms used for the first resulting in the sharpest image quality for the first time resulting in the sharpest image quality



Variable Source to Image Distance

Now take deeper angles with greater ease with up and down movement of the flat panel detector.



Full Body Coverage

Agile gives you the unmatched advantage of doing Neurovascular to Tibial Interventions on the same table. Presenting Class Leading table sweep length offering head-to-toe coverage for a 6 feet tall patient

Table Swivel

Now Perform Trans Radial procedures and CPR without worrying about table obstructing the field of operation

Lower Table Height

Now able-bodied patients can sit up and sit out of the table without the need for a patient trolley. Class-leading minimum table height to facilitate ease of patient transfer.

A.S.P.I.R.E[®] IMAGE QUALITY

“Advanced Supercomputing Based Pinnacle Image Resolution”

Using the power of Supercomputing Algorithms for the first time in Medical X-Ray Imaging to produce the Sharpest and Virtually Noise Free Images at the lowest Dose

Smallest Footprint

The World’s Smallest, Fixed, Flat Panel Cath Lab – Save the expensive Civil Work and experience the Award-winning installation time – we value your time and resources.

Tab Based User Interface

Experience the comfort of using an Industrial grade Tab for entire Patient Related Workflow. Now starting a new study, controlling the screen GUI and all image processing features are literally at your fingertips. Creating the most user friendly UI so that you can focus on what matters most.

Versatility at it's Best



We appreciate that visualising distal vasculature can be critical in clinical decision making

Cardiovascular Suite

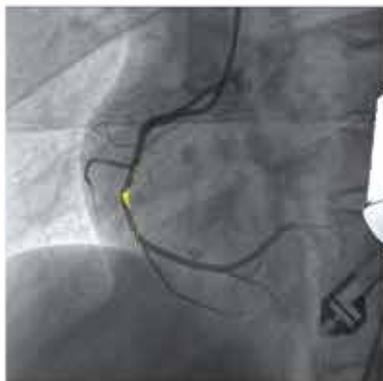
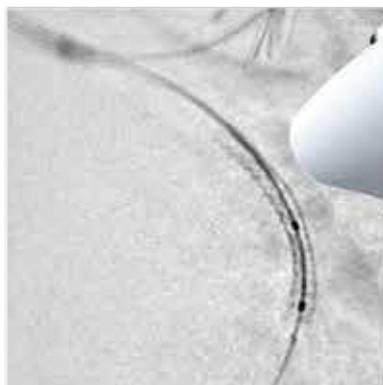
Now visualise distal and tortuous vessels better than ever before with World's first HD Flat Panel Detector. A Higher Resolution detector ensures sharper images in the most distal anatomy

Stent Clarity[®] and QCA

Visualise the entire stent with Stent Clarity[®] in high resolution. Now no need to take large cine loops to perform Software Stent Enhancement. With Stent Clarity[®], you can do an effective enhancement with as low as 24 frames

Neuro Vascular and Peripheral Vascular Suite

Pinnacle comes pre-loaded with proprietary DSA and Roadmap Software developed in-house. A larger 9-inch detector panel ensures a better field of view and reduces the need to take multiple shots. The 55-inch monitor helps play up to 4 Reference Loops alongside the Live window, especially helpful in some complex peripheral vascular procedures. Variable Frame Rates (as low as 3 frames per second) to perform long DSA procedures without worrying about dose.



Detector

Flat Panel 12" diagonal, 21 cm x 21 cm, Pixel Size 154µm, Image Matrix 1344 x 1344,
16-bit Dynamic range, DQE - 77%.

Gantry

Floor mount, ISO Centric, left side-mounted, Orbital Speed: Up to 25 deg/sec,
Angulation Speed: up to 25 deg./sec, Angular Stroke: -45 deg. to +45 deg.,
Orbital Stroke: +90 to -45 deg., C arm Depth - 85.3 cm, Variable SID: 96-116 cm

Monitor

55" 4K UHD, 3840x2160 Display matrix, ceiling suspended

Monitor Ceiling Suspension (MCS)

MCS can be positioned on three sides of the patient. Spring balanced Height Adjustment.

Image Acquisition System

Fluoroscopy, Roadmap, Cine, DSA, Low Dose Fluoroscopy mode, Fluoro Save Option,
All the modes are configurable to 3,6,9,12,15,25 frame/sec frame rate.
Image Storage - 150000 + images.

External System Integration

Haemo Monitor Integration

UI Modules

Table Control Module, C- arm & Imaging Control Module Tablet
Based Software Control Module.

Acquisition Modes

Pulsed Fluoroscopy, Cine, DSA, Roadmap, Low Dose Fluoroscopy.

Software Processing Options

16-bit image processing pipeline, Adaptive noise reduction and contrast
enhancement, Mask overlay, pixel shift, Zoom, Pan, Mirroring, Rotation,
QCA and Stent Enhancement.

Environmental

Input Power : 400-415 VAC, 65KW, 3 Phase, 50Hz Mains Line impedance < 0.15

Operating Temperature 15°- 30°, Operating Humidity 30% - 75%



Collimator

Square Lead Shutter, Heart Profile soft Cu Shutter, Variable Cu Filters

Workstation

150000 +Images, DICOM CD/DVD Writing, Store to PACS, Backup to external hard disk

Dose Awareness

Relevant dose information such as cumulative dose, Dose rate, Cumulative DAP and DAP rate on the Live monitor in the exam room. Cumulative dose information provided on the review monitor in the control room is DICOM Radiation Dose Structured Report.

Generator

65 KW High-frequency X-Ray generator, 40 - 125 KV, Max current 630mA @100 KV.

X-Ray Tube Assembly

125 Kv, Rotating Anode, Metal center tube, 0.6/1.0 Focal spot, 60/112 Kw anode input power, 1.5 MHU, Oil Cooled with external Heat Exchanger with the flow and thermal safety switch. Total filtration 9.5 mm Al Eq.

Table

Carbon Fiber Tabletop, Memory Foam Mattress, Max Patient Weight ·200 Kg,
Minimum Height: 785 mm, Vertical stroke: 300 mm. Table longitudinal stroke: 1350 mm,
Table Lateral stroke: 300 mm. Table Pivot movement : -15° to +90°

DICOM Interface

DICOM Print. CD/DVD Export. Structured Dose Reporting.



Your Reliable Partner in Life Support

Pinnacle Fixed, Flat Panel Fully Digital Cath Lab



Designed to meet the highest standards of Physician and Patient Safety

The Smallest Fixed, Flat Panel, Fully Digital Cath Lab

With an international Design Concept, Lower Dose and Superior image quality which is a result of Complex Supercomputing Algorithms used for the first time in Medical Technology, Pinnacle Competes with best in the Industry



The fastest growing and India's most awarded Cath Lab in 2018 - 2019



Winner of India Medical Device Company of the year award, Good Design, Red Dot Design Award, CII Design Excellence Award, India Design Award and CII Industrial Innovation Awards 2019 as a top innovative company

Stent Confidently with Stent Clarity[®]

Stent Clarity[®]. Now Visualise the stent better than ever before - Enhanced Visibility of the stent facilitates optimal expansion and placement of DES

Pulse Fluoroscopy, DSA, Stent Clarity[®], Road Map

Allows you to carry out a wide range of diverse cardiac, Peripheral Vascular, Neurovascular Diagnostic and Interventional procedures smoothly

The Peak of Perfection

- Proprietary image processing Chain ensures sharp images at lower radiation leading to enhanced patient and Physician Safety
- Low Dose Mode
- Powerful Heat Exchanger - Peace of mind for longer Complex procedures

PINNACLE allows you to perform a wide variety of cardiac, Peripheral Vascular and Neuro Vascular Diagnostic and interventional procedures with ease

Industry Leading Graphic User Interface and Responsive Hardware

Always be in Control

- Touch Screen and Physical Controls
- World Class TAB Based patient data control
- First in the industry to have tablet based interface which allow all patient data to be controlled easily & efficiently
- World Class Track Pad based Table Control

Detector

Flat Panel 12" diagonal, 21x21cm, Pixel Size 154 μ m, Image Matrix 1344x1344,
16-bit Dynamic range, DQE - 77%.

Gantry

Floor mount, ISO Centric, left side-mounted, Orbital Speed: Up to 25 deg/sec,
Angulation Speed: up to 25 deg./sec, Angular Stroke: -45 deg. to +45 deg.,
Orbital Stroke: +90 to -45 deg., C arm Depth - 85.3 cm, Fixed SID: 108 cm.

Monitor

55" 4K UHD, 3840x2160 Display matrix, ceiling suspended.

Monitor Ceiling Suspension (MCS)

MCS can be positioned on three sides of the patient. Spring balanced Height Adjustment.

Image Acquisition System

Fluoroscopy, Roadmap, Cine, DSA, Low Dose Fluoroscopy mode, Fluoro Save Option,
All the modes are configurable to 3,6,9,12,15,25 frame/sec frame rate.
Image Storage - 150000 + images.

External System Integration

Haemo Monitor Integration

UI Modules

Table Control Module, C- arm & Imaging Control Module
Tablet Based Software Control Module.

Acquisition Modes

Pulsed Fluoroscopy, Cine, DSA, Roadmap, Low Dose Fluoroscopy.

Software Processing Options

16-bit image processing pipeline, Adaptive noise reduction and
contrast enhancement, Mask overlay, pixel shift, Zoom, Pan, Mirroring,
Rotation, QCA and Stent Enhancement.

Environmental

Input Power : 400-415 VAC, 65KW, 3 Phase, 50Hz Mains Line impedance < 0.15

Operating Temperature 15°- 30°, Operating Humidity 30% - 75%



Collimator

Square Lead Shutter, Heart Profile soft Cu Shutter, Variable Cu Filters

Workstation

150000 +Images, DICOM CD/DVD Writing, Store to PACS, Backup to external hard disk

Dose Awareness

Relevant dose information such as cumulative dose, Dose rate, Cumulative DAP and DAP rate on the Live monitor in the exam room. Cumulative dose information provided on the review monitor in the control room is DICOM Radiation Dose Structured Report.

Generator

65 KW High frequency X-Ray generator, 40 - 125 KV, Max current 630mA @100 KV.

X-Ray Tube Assembly

125 Kv, Rotating Anode, Metal center tube, 0.6/1.0 Focal spot, 60/112 Kw anode input power, 1.5 MHU, Oil Cooled with external Heat Exchanger with the flow and thermal safety switch. Total filtration 9.5 mm Al Eq.

Table

Carbon Fiber Tabletop, Memory Foam Mattress, Max Patient Weight ·200 Kg, Minimum Height 800mm, Vertical stroke: 300 mm. Table longitudinal stroke: 1000 mm Table Lateral stroke: 300 mm.

DICOM Interface

DICOM Print. CD/DVD Export. Structured Dose Reporting.



PINNACLE  PRO

The World's Most Affordable Fixed Flat Panel Cath Lab

Pinnacle Pro



The World's Most Affordable Fixed Flat Panel Cath Lab

Making Cardiovascular care accessible

Fully Digital Fixed Flat Panel Cath Lab

1K X 1K Resolution

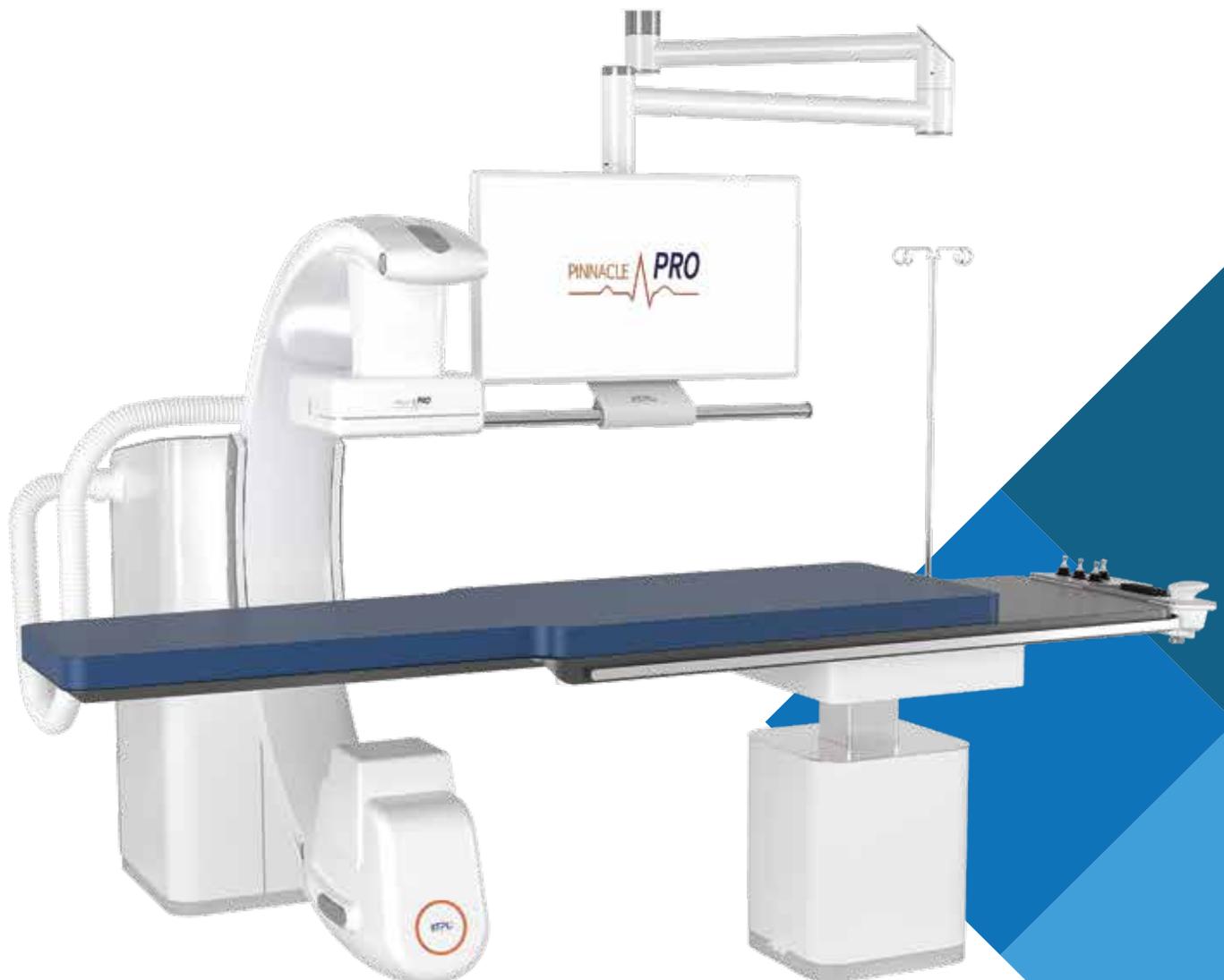
Flat Panel 12" diagonal

16-bit Dynamic range

Easy Remote Based User Interface

Smallest Footprint

Yet one of the Most Versatile Cath Labs



Acquisition Modes

Pulsed Fluoroscopy, Cine, DSA, Roadmap, Low Dose Fluoroscopy.



43" 4K UHD Ceiling Suspended Monitor

65 KW High - Frequency X-Ray Generator

1.5 MHU X-Ray Tube

Table

Carbon Fiber Tabletop

Max Patient Weight: 200 Kg, Minimum Height: 800 mm

Memory Foam Mattress



Detector

Flat Panel 12" diagonal, 20 cm x 20 cm, Pixel Size 200µm, Image Matrix 1024 x 1024,

16-bit Dynamic range, DQE - 75%.

Gantry

Floor mount, ISO Centric, left side-mounted, Orbital Speed: Upto 25 deg/sec, Angulation

Speed: Upto 25 deg./sec, Angular Stroke: -45 deg. to +45 deg., Orbital Stroke: +90 to -45 deg.,

C arm Depth - 85.3 cm, Fixed SID: 108 cm.

Monitor

Commercial Grade 43" 4K UHD, 3840x2160 Display matrix, Ceiling Suspended

Monitor Ceiling Suspension (MCS)

MCS can be positioned on three sides of the patient Manual Monitor Height Adjustment

Image Acquisition System

Fluoroscopy, Roadmap, Cine, DSA, Low Dose Fluoroscopy mode, Fluoro Save Option,

All the modes are configurable to 3,6,9,12,15,25 frame/sec frame rate.

Image Storage - 150000 + images.

External System Integration

Haemo Monitor Integration

UI Modules

Table Control Module, C- Arm & Imaging Control Module

Remote Based Software Control Module

Acquisition Modes

Pulsed Fluoroscopy, Cine, DSA, Roadmap, Low Dose Fluoroscopy.

Software Processing Options

16-bit image processing pipeline, Adaptive noise reduction and

contrast enhancement, Mask overlay, pixel shift, Zoom, Pan,

Mirroring, Rotation.

Environmental

Input Power : 400-415 VAC, 65KW, 3 Phase, 50Hz Mains Line

impedance < 0.15, Operating Temperature 15°- 30°, Operating Humidity 30% - 75%



Collimator

Square Lead Shutter, Heart Profile soft Cu Shutter, Variable Cu Filters

Workstation

150000 +Images, DICOM CD/DVD Writing, Store to PACS, Backup to external hard disk

Dose Awareness

Relevant dose information such as cumulative dose, Dose rate, Cumulative DAP and DAP rate on the Live monitor in the exam room. Cumulative dose information provided on the review monitor in the control room is DICOM Radiation Dose Structured Report.

Generator

65 KW High-frequency X-Ray generator, 40 - 125 KV, Max current 630mA @100 KV.

X-Ray Tube Assembly

125 Kv, Rotating Anode, Metal center tube, 0.6/1.0 Focal spot, 60/112 Kw anode input power, 1.5 MHU, Oil Cooled with external Heat Exchanger with the flow and thermal safety switch. Total filtration 9.5 mm Al Eq.

Table

Carbon Fiber Tabletop, Memory Foam Mattress, Max Patient Weight ·200 Kg, Minimum Height 800mm, Vertical stroke: 300 mm. Table longitudinal stroke: 1000 mm Table Lateral stroke: 300 mm.

DICOM Interface

DICOM Print. CD/DVD Export. Structured Dose Reporting.

Pinnacle Family of Cath Lab - Comparison



Detector

Image Matrix: 1344x1344, 16-bit

Dynamic range, DQE - 77%.

Gantry

Variable SID: 96-116 cm

Monitor

55" 4K UHD, 3840x2160 Display

matrix, ceiling suspended.

Monitor Ceiling Suspension (MCS)

Spring balanced Height Adjustment.

UI Modules

Tablet Based Software Control

Module.

Software processing options

QCA and Stent Enhancement.

Table

Minimum Height 785 mm, Vertical

stroke: 300 mm. Table longitudinal

stroke: 1350 mm, Table Lateral stroke:

300 mm. Table Pivot movement : -15°

to +90°



Image Matrix: 1344x1344, 16-bit

Dynamic range, DQE - 77%.

Fixed SID: 108 cm.

55" 4K UHD, 3840x2160 Display

matrix, ceiling suspended.

Spring balanced Height Adjustment.

Tablet Based Software Control

Module.

QCA and Stent Enhancement.

Minimum Height 800 mm, Vertical

stroke: 300 mm. Table longitudinal

stroke: 1000 mm, Table Lateral stroke:

300 mm.



Image Matrix: 1024 x 1024, 16-bit

Dynamic range, DQE - 75%.

Fixed SID: 108 cm.

43" 4K UHD, 3840x2160 Display

matrix, ceiling suspended

Manual Monitor Height Adjustment

Remote Based Software Control

Module.

Optional QCA and Stent Enhancement.

Minimum Height 800 mm, Vertical

stroke: 300 mm. Table longitudinal

stroke: 1000 mm, Table Lateral stroke:

300 mm.

Accessories Catalogue



Flashlight

- Improves accuracy of puncturing technique.
- Better visibility of introduction of wires, balloons, stents in lumens or over the wire procedure.
- Flexible in positioning, you can place it on Area of Interest as required.
- Dual tone and brightness light adjustments

Radial Support Arm Rest

- Carbon fiber, light weight, radiolucent and easy place.
- Easy to perform radial puncture as it's away from body and table. Patient comforts and it's away from the body.
- Ensures patient comfort, big sized so small required consumables, and other consumables like wire, injections, tubing, etc can be kept as well..
- Fewer chances of contrast media to fall on table mattress or patient body.



Separator

- It separates the sterile and u sterile part of tables.
- Easy for technician to perform sterile work and u sterile work
- Flexible in positioning.

Our Awards



Indian Medical Device Company of the Year Award 2020 by Department of Pharmaceuticals, Government of India.
Highest level award for a Medical Device Company in India.



Good Design Award is considered the highest level of recognition in Industrial Design by Ministry of Commerce, Japan



The Red Dot Award is considered the OSCARS for Industrial Design worldwide. Considered one of the best design awards globally and awarded to products with best in the class industrial design concept.



Received CII Industrial Innovation Awards 2019 for being adjudged as top 25 Innovative companies of India.



Confederation of Indian Industry is the apex trade body in India and this award recognizes the very best in Industrial design in India



Awarded by the Government of India, The India Design Mark (I Mark) is a design standard that recognizes Good Design by India Design Council

Our Certifications





Made in India For the World



HEART CARE INDIA CO

**No 21/11, 2nd Floor, VC Garden 2nd Street,
Mandaveli, Chennai-600 028.**

Phone No: 044-24954590/9962514402

Mail Id: heartcare1995@gmail.com

Web: www.heartcareindia.com

* All pictures shown in the brochure are for illustration purposes only.
Actual product may vary due to product variation and enhancement.