

ADC Digital single-plane cardiovascular digital angiography unit features a high resolution fluoroscopy tube, an advanced image intensifier with full-frame zoom, and an image analysis workstation for improved patient outcomes.



Parallelogram Stand Provides:

- 55 degree of Cranial and Caudal angulation and +/- 120 degree of rotational motion
- Rotational pivot allows U-arm to be routed +/- degree away from table
- Table centerline to allow clear access to patient
- Motorized control from table for:
- RAO/LAO Angulation movement
- CRAN/CAUD movement
- SID m stand movement of 10 degrees or 20 degrees per second rotation and 7 or 15 degrees Cranial/Caudal

Includes:

- X-ray tube cooler for high case load and rapid turnover
- Poly C X-ray tube cover box
- Digital Position display

Constant potential Generator of 90 KW Provides:

- 7.5/15/30/60 frames per second recording
- 7.5/15/30 pulse fluoroscopy rates with active cable discharge
- Solid state pulsing for use with digital imaging
- Solid state pulsing system employs high voltage field effect transistors
- Automatic control of the kV, mA , Focal spot and pulse width for optimum brightness and contrast during cine and electronic imaging
- No ripple in the Tube Voltage curve
- 200 usec typical rise and fall times of tube voltage
- Pulsed fluoroscopy with the standard X-ray tube (No Grid)
- All the X-ray parameters are controlled and operate by intelligent software loops , assisted by a microprocessor
- Automatic X-ray tube calibration
- Interface to TRI focal X-ray tube to improve image resolution
- 0.5ms to 11ms (nominal 8ms) pulse width selection
- 1000mA output (90KW nominal load)
- 125kV maximum
- Heat unit calculator with display on monitor for user observation

Includes:

- Power Rack
- Image Rack
- High tension tank

Soma Tech Pvt. Ltd.
E-114 GIDC - Savli Manjusar Savli Road
Vadodara, Gujarat, India



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High Capacity Cardiac X-ray Tube and Collimator:

- Bi focal spot sizes of 0.6 and 1.0mm
- 1.5 Million Heat Unit Anode storage capacity
- Metal center section technology
- Target angle of 10 degrees
- Rapid dissipation Heat Exchange for high case load
- Round and square field collimation
- Dual wedge filters with inward and rotational movement
- Aluminum and copper filtration
- Collimator interface and control
- Image Intensifier
- 9"-7"-5" Tri mode acquisition zoom with 25 mm output window
- Power supply and shield
- Brightness pick up
- 9" carbon grid 110 line , 8:1 ratio
- Ceiling monitor support & three 20" monitors
- Ceiling mounted Monitor suspension
- Longitudinal rafts 8' 10"
- Longitudinal travel of 6' 4"
- Monitor tray with cushion
- Monitor arranged in horizontal array
- Pedestal Patient Table
- 107" flat carbon fiber top rated at 350lbs
- Vertical travel of 14"
- Four way float top for easy positioning
- Transverse travel of +/-8 degrees
- Longitudinal travel of 60"
- Table top rotation of 180 degrees
- Mushroom style panning handle

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Digital Features:

- 2/3" FT18 high performance sensor
- 12 bit A/D converter in the camera head
- Switchable binning on the fly
- 1024 x 1024 pixels at 30 FPS (40 MHz)
- 1023 x 512 pixels at 60 FPS (40 MHz)
- Better than 60 dB signal to noise
- 100% optical fill factor
- Typically 50 Kel linear full well
- Minimum blooming
- LVDS connection from camera head
- Vertical and horizontal reversal at camera head
- Embedded timing and control
- Small package, approx 5" square and 2" deep
- Automatic line voltage and frequency selection
- Switching power supply with current limiting and no fuses
- Self and extended test functions
- On screen setup for all camera parameters and calibration
- 10 different programmable modes
- Auto or manual black and noise reduction
- Small and average sensing
- Full 30 or 60 FPS, Gamma table selection
- Last image hold
- VGA monitor output 1280 x 1024 progressive is a standard feature
- Direct to X – ray generator interface
- 12 bit digital output for image processor
- Image processor control interface
- Automatic brightness control output
- Pixel correction , smear correction, dark current and black level compensation
- Automatic programmable iris control

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- Interface for pulse fluoroscopy and cine with adjustable exposure phasing
- Analog inputs for the display of parameters within the video frame, such as LAO/RAO, CRA/CAUDE, ECG waveform etc

Digital Workstation features:

Clinical application software package with boosted response times.

Includes:

- Forward/reverse
- View speed
- Run step
- Electronic shutters
- Brightness/contrast
- Edge enhancement
- Video invert
- Annotation
- Selection of images for transfer
- Flag/deflag exam
- Selection of physio signal
- Pan-zoom
- Examination/run overview
- Store/delete images to/from photo file
- Examination cycle with variable speed
- Run cycle
- Selection and execution of quantification software
- External communication
- Digital subtraction angiography including segmented DSA and Progressive online DSA
- Neuro roadmap for neuro applications

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