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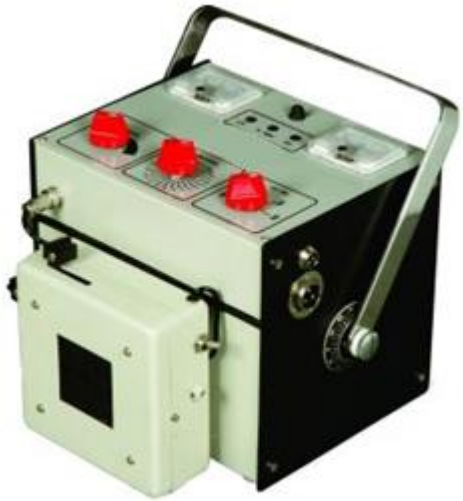
Portable X-Ray Systems – 09A01

Advin Portable X –Ray Machine is indicated for use on adult & Peadiatric Patients For General – Purpose diagnostic radiographic examinations & procedures.

It mobility enables use as needed within the emergency, intensive care, cardiac & operating departments, for patients that may not be able to be moved or in cases where it is unsafe or impractical to move them to a traditional RAD room.

Advanced Features:

- Line voltage compensation
- Hand operated switch is provided for X –Ray exposure in single touch
- Full proof radiation protection
- Truly portable carry away box type machine
- Light weight model
- Voltage overload protection



Technical Specification:

Model No.	9A0130	9A0150
Power Supply	110 – 230 VAC, 50 / 60 Hz	110 – 230 VAC, 50 / 60 Hz
Output	30mA. At 50 kV 20 mA. At 68 kV 15mA. At 85kV	30mA. At 52 kV 35 mA. At 75 kV 30mA. At 85 kV
X –Ray Tube	Stationary Anode X –Ray Tube	Stationary Anode X –Ray Tube
Type Of Generator	Full Wave Rectified	Full wave Rectified
Timer	0.02 to 5.0 sec. (23Steps)	0.02 to 5.0 sec. (23Steps)
Weight	15Kgs.	18 Kgs.
Optional Accessories	Carrying Case	Dental Cone
Radiography		

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kVp Range		40 - 150 kV in 1 kV increments
kVp Accuracy :		±2% for 90 - 110 kV; ±(5% + 1kV) for 40 - 150 kV
High Voltage Ripple		<1kV @ 110 kV with 21 m (70 ft) cables
Rise Time		<0.75 ms (0.5 ms typical)
mA Range / Steps		10 - 630 mA / R'10 or R'20
Exposure Timer Range		1 - 6300 ms in 1 ms increments
mAs Range (non-AEC) / Steps		0.1 - 1000 mAs / R'10
Fluoroscopy		
kVp Range		40 - 125 kV in 1 kV steps
kVp Accuracy		±2% for 90 - 110 kV; ±(5% + 1kV) for 40 - 125 kV
High Voltage Ripple		<1kV @ 110 kV & 5 mA with 21 m (70 ft) cables
mA Range / Steps		0.5 - 20 mA in 0.1 mA steps

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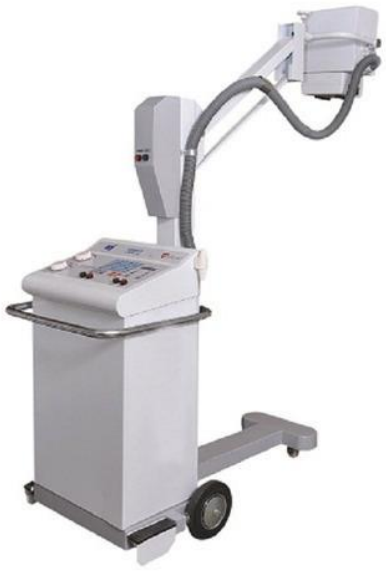
HF Mobile Radiography X-Ray Systems – 9B01

Advin HF Mobile X-Ray is a fine example of an X – Ray machine that's manufactured to meet both national and international standards.

The product meets all the essential requirements in terms of ease of use, mobility, manoueuvrability with high quality images that's rich in contrast offering excellent diagnostic value. Ultisys HF Mobile X –Ray is ideally suited for applications in ICUs, OTs, Wards & sports Centres & can be carried through lifts & narrow corridors.



The machine is ideal for X-Rays of chest, skull, extremities & special investigations including Barium IBP & routine Orhtopedic Examinations. Range of Optional accessories is also available : - Horizontal & manual position examination tables.

Advanced Features:

- Micro-processor based control system
- Independent Radiography parameters (kV, mAs) selection with digital display
- Wider reach of tub with respect to the patient, especially for Trauma cases
- A 10% smaller footprint than most other models in the market – convenience in narrow spaces
- Ease of mobility with braking system
- Consistent dose output even with varying mains voltages
- Spring Balance up/down movement of tube arm – ease of positioning
- Institutive operation based on anatomical program (APR) with graphic key Switches
- Automatic X-Ray Tube overload protection

Advantage of HF Generator

- Neglible soft –radiation hence skin does is low
- Output wave Form is practically constant at peak value, thus the outpu is very efficient
- Gives 70% - 80% more output

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Technical Specification:

Model No.	9B0103	9B0105	9B0107	9B0110	9B0115	9B0132
KW	3.5	5	7	10	15	32
Application	Mobile Radiographic					
Generator Type	High Frequency Output (Max 40 KHz)					
Power Supply	1 –Phase(230VAC / 15 AMP/ 50Hz + 10%)					
Max. Output	3.5kW	5kW	7kW	10kW	15kW	32kW
RAD KVP Range	40-100kVp			40-125KVp		
RAD MA. Range	20-70 mA	40 – 100 mA	40 – 160mA	30 – 200mA	60 – 300mA	60 -400mA
RAD MAS. Range	1 – 200 mAs	1 – 200 mAs	1 – 200 mAs	1 – 250 mAs	1 – 250 mAs	1–250 mAs
Control Panel	5.5” TFT Graphical Display with APR mode.					
X-Ray Tube	Stationary Anode (monoblock)			Rotating Anode (MonoBlock)		
X-Ray Focal Spot	2.8 mm x 2.8 mm			Small: 0.6 mm x 0.6 mm Large: 1.3 mm x 1.3 mm		
Tube Stand	Spring Balance Tube Stand					
Mobile Unit Dimensions	103 cm L x 63.5 cm W x 208 cm H			103 cm L x 63.5 cm W x 208 cm H		

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LF Mobile Radiography X-Ray Systems - 9B02

Advin, LF Generator series offers advanced high quality radiographic capabilities with unmatched performance & reliability resulting in the lowesr cost of ownership over the product lifetime.
This generator is suitable for film and CR – procssor based controls to minimize patient doze and maximize image quality while demonstrating excellent reproducibility with user-frendily operator controls.

Advanced Features:

- Micro-processor based, Easy –operational and user –friendly X-ray control console
- Teflon wires used for internal wiring for protection againts heat and Fire
- Modular & smart Card based design for easy service
- Micro-Processor based real time exposure
- Micro-processor controlled input line voltage compensation
- Audible Tone at time of x-ray Exposure
- Micro-processor protects X-Tube life from overload due to exposure factor selesction automatically
- Exposure Trigger Circuit Control by SCR / TRIAC for soft firing
- Auto shut down facillites (machine will automatically switch off after 30 min. if it is not in use.)
- Power circuit design provides maximum mA & kVp output accuracy
- CVT with electronic sabilizer card for mA circuit
- Miniature Circuit Breaker protects against overload
- Precise selection of mAs brings better quality and reduces radiation time
- Two Options are available: stand mounting & wall mounting

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Technical Specification:

Model No.	9B02A	9B02B
Power Supply	1 Phase	1 Phase
Input Rating	230VAC / 15 A / 50HZ / ±10%	400 – 440VAC/32A / 50Hz / ±10%
Line Resistance	0.4 Ω	0.4 Ω
Output Rating	8kW	8kW
Control Panel	Microprocessor Controlled Feather touch operated	Microprocessor Controlled Feather touch operated
RAD kVp Range	40 – 100 kVp (Step of 1 kVp & 10 kVp)	40 – 125 kVp (Step of 1 kVp & 10 kVp)
RAD mAs Range	2 – 200 mAs (Step of 1 mAs & 10 mAs)	2 – 200 mAs (Step of 1 mAs & 10 mAs)
RAD mA Range	25, 40, 60, 80, 100	25, 40, 60, 80, 100
RAD Exposure Time	0.02 – 5.0Sec.	0.02 – 5.0Sec.
Digital Display	KV, mA, mAs, Timer (Display on Control Panel)	KV, mA, mAs, Timer (Display on Control Panel)
X-Ray Tube Type	Stationary Anode	Stationary Anode
Rectification	Full way Rectification	Full way Rectification
X-Ray Focal Spot	2.8mm^2	2.8 mm^2
Tube Type	Monoblock	Monoblock
Mobile Tube Stand	Mobile Pipe based type fully counter balance column with straight arm.	Mobile Square base type fully counter balance column with 360° Rotation & collapsible arm.
Optional Table With Moving Grid	Horizontal Table 2 way Floating table 2 – Positon Table	Horizontal Table 2 way Floating table 2 – Positon Table

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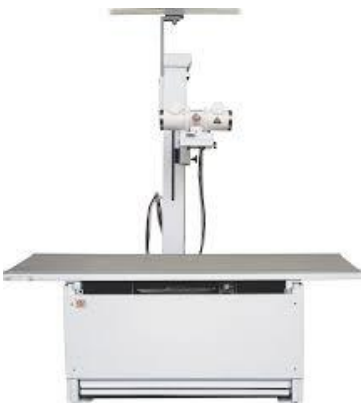
Line Frequency Radiography X-Ray Systems – 9C01

We, Advin, LF Generator series offers advanced high quality radiographic capabilities with unmatched performance & reliability resulting in the lowesr cost of ownership over the product liftime.
This generator is suitable for film and CR – procssor based controls to minimize patient doze and maximize image quality while demonstrating excellent reproducibility with user-friendly operator controls.

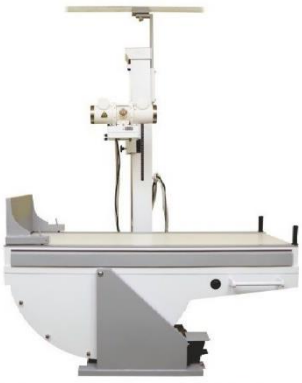
Advanced Features:

- Micro-processor based, Easy –operational and user –friendly X-ray control console
- Teflon wires used for internal wiring for protection againts heat and Fire
- Modular & smart Card based design for easy service
- Micro-Processor based real time exposure
- Micro-processor controlled input line voltage compensation
- Audible Tone at time of x-ray Exposure
- Micro-processor protects X-Tube life from overload due to exposure factor selesction automatically
- Exposure Trigger Circuit Control by SCR / TRIAC for soft firing
- Auto shut down facillites (machine will automatically switch off after 30 min. if it is not in use.)
- Power circuit design provides maximum mA & kVp output accuracy
- CVT with electronic sabilizer card for mA circuit
- Miniature Circuit Breaker protects against overload
- Precise selection of mAs brings better quality and reduces radiation time
- Two Options are available: stand mounting & wall mounting

Horizontal Table



4 –Way Floating Table



5 - Position Table

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Technical Specification:

Model No.	09C0124	09C0140	09C0141
Power Supply	3 Phase	3 Phase	3 Phase
Input Rating	400 – 440VAC/32A / 50Hz / ±10%	400 – 440VAC/32A / 50Hz / ±10%	400 – 440VAC/32A / 50Hz / ±10%
Line Resistance	0.5 Ω	0.2 Ω	0.2 Ω
Output Rating	24kW	40kW	40kW
Control Panel	Microprocessor Controlled Feather touch operated	Microprocessor Controlled Feather touch operated	Microprocessor Controlled Feather touch operated
RAD kVp Range	40 – 100 kVp (Step of 1 kVp & 10 kVp)	40 – 125 kVp (Step of 1 kVp & 10 kVp)	40 – 125 kVp (Step of 1 kVp & 10 kVp)
RAD mAs Range	2 – 250 mAs (Step of 1 mAs & 10 mAs)	2 – 250 mAs (Step of 1 mAs & 10 mAs)	2 – 500 mAs (Step of 1 mAs & 10 mAs)
RAD mA Range	Small focus – 50 mA, 100mA, 200mA Large Focus – 200mA, 300mA	Small focus – 50 mA, 100mA, Large Focus – 200mA, 300mA, 500mA	Small focus –100mA, Large Focus – 200mA, 300mA, 500mA, 700mA
RAD Exposure Time	0.02 – 5.0Sec.	0.02 – 5.0Sec.	0.02 – 5.0Sec.
Digital Display	KV, mA, mAs, Timer (Display on Control Panel)	KV, mA, mAs, Timer (Display on Control Panel)	KV, mA, mAs, Timer (Display on Control Panel)
X-Ray Tube Type	Rotating Anode Dual Focus (shell Type)	Rotating Anode Dual Focus (shell Type)	Rotating Anode Dual Focus (shell Type)
Rectification	Full way Rectification	Full way Rectification	Full way Rectification
X-Ray Focal Spot	1 mm^2 small, 2.0 mm^2 Large	1 mm^2 small, 2.0 mm^2 Large	0.6 mm^2 small, 1.5 mm^2 Large
Floor To ceiling Tube stand	Column stand for X-ray tube with movements covering full length of X -ray table	Column stand for X-ray tube with movements covering full length of X -ray table	Column stand for X-ray tube with movements covering full length of X -ray table
Table with moving grid	Horizontal stand 5 position table 4 – way floating stand	Horizontal stand 5 position table 4 – way floating stand	Horizontal stand 5 position table 4 – way floating stand
Phase Converter	3 Phase to 1 Phase converting transformer	3 Phase to 1 Phase converting transformer	3 Phase to 1 Phase converting transformer

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H.V. Cable	H.V. Cables 1 Pair	H.V. Cables 1 Pair	H.V. Cables 1 Pair
H.V. Transformer	H.V. Transformer Oil Cooled With stand	H.V. Transformer Oil Cooled With stand	H.V. Transformer Oil Cooled With stand

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High Frequency Radiography X-Ray Systems - 9C02

We, Advin, HF Generator series offers advanced high quality radiographic capabilities with unmatched performance and reliabity resulting in the lowest cost of ownership over the product liftime.
This Generator is suitable for film & CR-based radiographic systems & features leading edge micro-processor based controls to minimizepatient doze and maximize image quality while demonstrating excellent reproducibility with user- frindly operator controls.

Advanced Features:

- Anatomical Programs available in many languages that are easily edited by the operator membrane control console.
- Automatic Tube Calibration
- Filed upgradable for youy future iaging requriments.
- Service software allows fast and easy set up as well as system diagnostics for off-size analysis
- Small Comapct & light weight
- Cost effective for all radiographic application of hospital, medical clinics, chiropratic and veterinary.
- Low kV ripple – maximizes images quality by providing potential performance.
- Technique selection:
    - kV with AEC
    - kV / mAs
    - kV / mA / Time
    - Patient / Body Part Thickness

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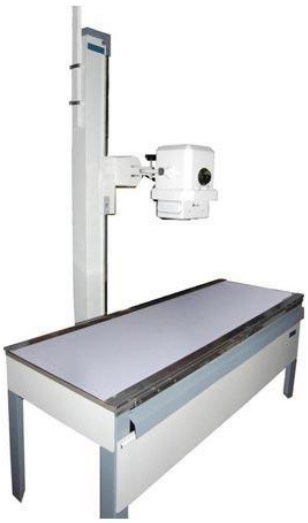
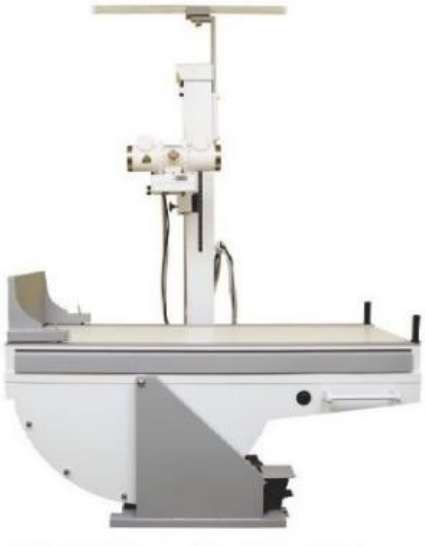
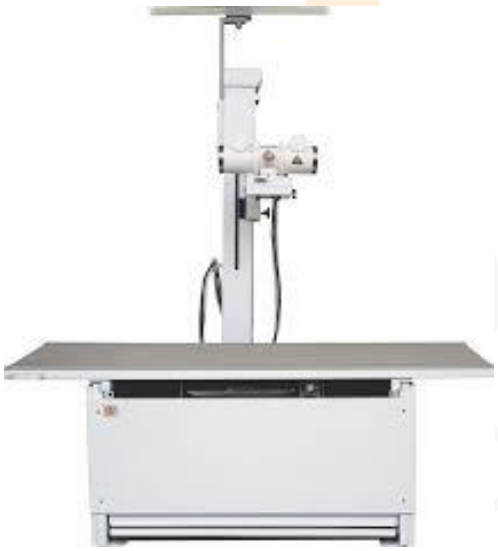


Horizontal Table



5 - Position Table



4 –Way Floating Table

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Technical Specification:

Model No.	09C0232	09C0240	09C0250	09C0265	09C0285
Application	Radiographic				
Generator Type	High Frequency Output (Max 400 KHz)				
kVp Range	40-125kV (150 kV Optional - 3ϕ only)		40-150 kV	40-150 kV	40-150 kV
mA Range	10 – 400 mA	10 – 500mA	10 – 630mA	10 – 800mA	10 – 1000mA
mAs Range (non – AEC)	0.1 - 500mAs	0.1 – 500mAs	0.1 -630mAs	0.1 – 800 mAs	0.1 – 1000mAs
Rotor Supply	Low speed starter (optional Dual speed starter)				
Power Supply	1ϕ / 208-230V AC, 3ϕ/ 208 -230V AC (150kV optional with internal Transformer), 3ϕ / 400 -480 VAC (150kV optional)		3ϕ/ 208 -230V AC (External Transformer required for 65 kW), 3ϕ / 400 -480 VAC		3ϕ / 400 -480 VAC
High Voltage Ripple	<1 kV @ 110kV				
Compatible X –ray Tubes	>300Tube models				
Auto – Tube Calibration	Standard Features				
Exposure Timer Range	Maximum 6.3s Standard (10 s, 20 s or 30 s Optional)				
Anatomical Programs (APR)	1024 / 20,000 + Techniques				
Supported Console Languages	English, French, German, Italian, Spanish, Swedish, Cyrillic				
Image Receptors	Up to 5				
Technique Selection	kV / AEC, kV / mA / ms or kV / cm Thickness (requires standard Console)				
Tomography Mode	Standard Features				
Auxiliary collimator Power supply	Standard Features				
GenWare Service Software	PC –based Diagnostic and Technical support				
Documentation	Manuals on CD (hard copy Optional)				

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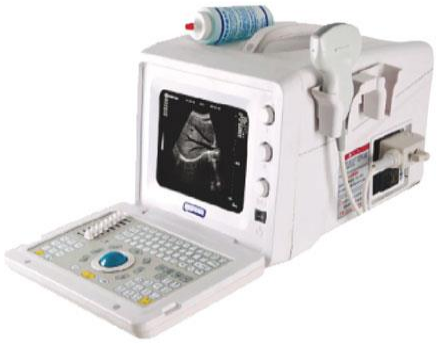
Portable Ultrasound Machine - 9D01

We, Advin, Portable Ultrasound Machine delivers superior quality imaging, functionality and reliability. Portable ultrasound is a modality of medical ultrasonography that utilizes small and light devices, compared to the console style ultrasound machines that preceded them. Portable ultrasound machines are typically used in situations where space is limited, mobility is important, or the scanning must be done in the field.

Advanced Features:



- Intellectualized TGC gain comtrol of the whole paragraph, Precisely adjustment image density
- High Density probe, brodband amd frequency conversion technology, increase the image quality gratly
- Professoinal embedded ultrasonic platform
- Backlight silica gel keyboard, photo-electricity track control
- High-precision fully digital imaging technology
- USB port : Storable & readable

Application:

- Abdominal
- OBS/Gyn
- Urology
- Cardiology
- Vascular
- Radiology
- Endocrinology

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Technical Specification:

Technical Specification	
Display mode	B, B+B, B+M, M, 4B
Scanning Mode	Convex / linear / micro-convex
Display	10.4” high resolution CRT monitor
Operation panel	User-friendly, convenient & flexible with back-list silica gel keyboard & track ball operation
Probe interface	2
Probe	80/96 element convex probe, trans vaginal probe, trans-rectal probe, high frequency & track ball Operation
USB port	Storable & readable
Image processing	Up/down, left/right, black/white convertion, edge enhancement, gamma correction, frame correlation, pseudo colour processor
Measurement	Distance, perimeter, area, volume, heart rate, gestational week, FW, AFI, EDD, Maternity table, heart packages ETC.
Note	Date time, Name, Sex, Age, Doctor, Hospital, Comments
Detecting Depth	≥ 242 mm
Zoom	Local Zoom can be used at real time
Frequency Of Probe:	3.5mHZ multi-frequency (2.5 – 5.0 MHz) abdomen convex probe
Optional	7.5 MHz rectal probe (6.5 MHz – 8.5 MHz) 7.5 MHz linear probe (6.5 MHz – 8.5MHz) 6.5 MHz trans- vaginal probe (5.5 MHz - 7.5MHz) Thermal/ video printer, laser printer, jet printer Color LCD monitor Trolley USB port

Product code:

Product	size	code
Portable Ultrasound Machine	-	9D01

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Digital Ultrasound Machine – 9D02

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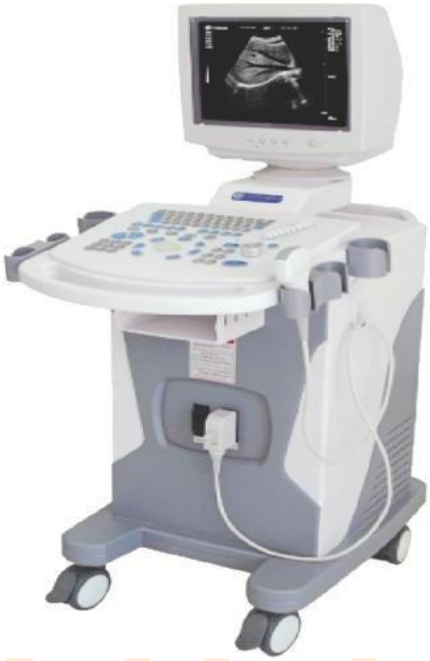
Digital ultrasound machines are typically used in situations where space is limited, mobility is important, or the scanning must be done in the field.

Advanced Features:



- Powerful adjustable image processing 128 level of total gain adjustment, Y adjustment, dray scale adjustment, frame mixing 80 level of dynamic range adjustment
- Main unit with SVGA
- Fully digital beam forming technology
- 3.5MHz multi-frequency [2.5 – 5.0 MHz] convex probe
- All focus technology: Transmit & receive both direction poit – point focusing
- Complete application packages, easy user interface, accurate measurement
- Ultra low transmit power one eight of transmit ultrasound power comparing to traditional forming method
- Other fuctions screen protects & probe protects, light keyboard, permanent storage & software update function standard configuration

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Technical Specification:

Technical Specification	
Scanning Mode	B, B/B, B/M VARIED ZOOM
Display	10.4” high resolution CRT monitor
Video Out	PAL, SVGA
Cine loop	384 frames
Body mark	60 types
Report	OB report & LMP functions
Measurement	Distance, Perimeter, Area, Volume, Heart rate, Depth, Time, Speed, LV (left Ventricle), AO(Aorta), MV (mitral Valve), RV/LV, GS, BPD, CRL, FL, GL, TAD, LV, OFD, AC, HC pregnant week, & Fetal Weight.
Image Processing	Real time fixing zooming, wide range Y adjustment, window curve control, STC curve, Frame correlation, 256 gray scale, cine loop and image storage, dynamic range, edge Enhancement, image reverse function.
Data	ID, date, time, focus gauge, hospital name, measuring value, gray scale, probe, type & frequency, probe position, display mode, scan direction, multiple –ratio, focus, puncture, guidelines, images processing & notes.
Optional	USB DVD writer USB standard 101 keyboard & USB mouse B/W video Printer, USB Printer 2.5 – 5.0 MHz phased array probe 5.0 – 7.5 MHz convex vaginal probe 2.5 – 5.0 MHz Linear Abdomen Probe 6.5 – 8.0 MHz Linear Facial Probe

Product code:

Product	size	code
Digital Ultrasound Machine	-	9D02

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3D Digital UltrasoundMachine – 9D03

We, Advin, Digital Ultrasound Machinedelivers superior quality imaging, functionality and reliability.
Digital ultrasound machines are typically used in situations where space is limited, mobility is important, or the scanning must be done in the field.

Advanced Features:

- US – 300 systems image is clear, powerful, can be used in abdominal, obstretrics, small parts, vascular, Urology, Prostate, Endovascular, Surgery, Cardiac, And Paediatric Examination.
- Color Doppler Ultrasound system bringing an entirely new leve of diagnostic performance & workflow efficiency.
- It ienhances diagnostic confideance with high quality color & power Doppler, 2D/3D mode imaging.
- Data Information communication can be easily carried out.
- It also can connect to PACS picture Archiving & Communication System.
- Easily Accessible, full size qwerty keyboard for text entry, function keys & system programing.
- Cine playback, Multiple Arrows, Configurable worksheets, Exam review, Pictograms (body Marks), System setup menu.
- Intuitive Windows based operating principles.

Technical Specification:

Technical Specification	
Power Range	AC 220 V ±10%, 3A
Host Power	DC 12.8 V 11.5A
Input Power	≤ 300VA
Single Channels	64 Channels
Vertical Resolution	≤ 1mm(depth ≤80mm) ≤2mm (80mm≤depth ≤130mm)

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Lateral Resolution	≤ 1mm(depth ≤80mm) ≤2mm (80mm ≤ depth ≤130mm)
Imagining Modes	B, 2B, AB, M. B/M, B/C, B/D, B/C/D, B/CFM/D, PDI Colour, Dual Colour, Simultaneous 2d/Colour compound, PW, Duplex/Triplex, CFM, CDE, PD, Directional PD, CD.
Blind Zone	≤ 5 mm
Precision geometric position	Horizontal ≤ 10% longitudinal ≤ 10%
Output	PAL output interface
Optional	Trans vaginal probe Trans-rectal probe High frequency linear probe Phased array probe 4D- mode imaging

LCD Monitor

Size	17" / 19"
Resolution	1024 x 768 pixels
Rotate Angle	± 90°
Grey Levels	256
Start Up Time	≤ 1 Sec
Storage Time	≤ 0.5 Sec

Probe	Band	Frequency
Convex Probe	128 elements R50 wideband	Multi-Frequency 2.0, 3.0, 3.5, 4.0, 5.5 MHz
High-Frequency Linear Probe	128 elements R40 wideband	Multi-Frequency 6.0, 6.5, 7.5,10, 12 MHz
Trans-Vaginal Probe	128 Elements R10 wideband	Multi –Frequency 5.0, 6.0, 6.5, 7.5, 9.0 MHz
Phased array	64 elements R20 wideband	Multi - Frequency

Product code:

Product	size	code
3D Digital Ultrasound Machine	-	9D03

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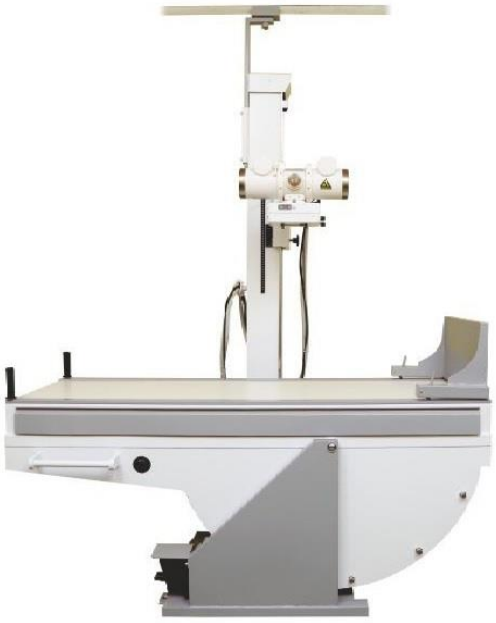
LF Radiography & Fluroscopy X-Ray Systems -09E01

We, Advin, LF Generator series offers advanced high quality radiographic capabilities with unmatched performance and reliabity resulting in the lowest cost of ownership over the product liftime.
This Generator is suitable for film & CR-based radiographic systems & features leading edge micro-processor based controls to minimizepatient doze and maximize image quality while demonstrating excellent reproducibility with user- frindly operator controls.

Advanced Features:



- Micro-Processor based easy operational & user – frendily X-ray Control Console
- Dual Exposure Switch
- CVT with Electronic stabilizer card for mA circuit
- Precise selection of mAs brings better qualityand reduces radiation time
- Modular & smart card based design for easy service
- Miniature Circuit Breaker protects against overload
- Micro Controlled based real time exposure
- Micro – Processor protect X –tube life from overload due to exposure factor selsction automatically
- Micro-processor controlled input line voltage compensation
- Teflon wires used for interanal wiring for protection against heat & fire
- Powerful circuit design provides maximum Ma & kVp output accuracy
- Exposure Trigger Circuit Control by SCR / TRIAC for soft firing
- Auto shut down facilities (machine will Automatically Switch off After 30 min. if it is not use.)
- Two options are available for console: stand mounting & wall mounting

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Technical Specification:

Model No.	09E0124	09E0140	09E0141
Power Supply	3 Phase	3 Phase	3 Phase
Input Rating	400 – 440VAC/32A / 50Hz / ±10%	400 – 440VAC/32A / 50Hz / ±10%	400 – 440VAC/32A / 50Hz / ±10%
Line Resistance	0.5 Ω	0.2 Ω	0.2 Ω
Output Rating	24kW	40kW	40kW
Control Panel	Microprocessor Controlled Feather touch operated	Microprocessor Controlled Feather touch operated	Microprocessor Controlled Feather touch operated
RAD kVp Range	40 – 100 kVp (Step of 1 kVp & 10 kVp)	40 – 125 kVp (Step of 1 kVp & 10 kVp)	40 – 125 kVp (Step of 1 kVp & 10 kVp)
RAD mAs Range	2 – 250 mAs (Step of 1 mAs & 10 mAs)	2 – 250 mAs (Step of 1 mAs & 10 mAs)	2 – 500 mAs (Step of 1 mAs & 10 mAs)
RAD mA Range	50S, 100S, 200S, 200L, 300L	50S, 100S, 200S, 200L, 300L	50S, 100S, 200S, 200L, 300L
RAD Exposure Time	0.02 – 5.0Sec.	0.02 – 5.0Sec.	0.02 – 5.0Sec.
Fluoro kVp Range	40 – 100kVp(step of 1 kVp & 10 kVp)	40 – 100kVp(step of 1 kVp & 10 kVp)	40 – 100kVp(step of 1 kVp & 10 kVp)
Fluoro mAs Range	1 – 300sec. cumulative	1 – 300sec. cumulative	1 – 300sec. cumulative
Fluoro mA Range	0.1 – 3mA variable	0.1 – 3mA variable	0.1 – 3mA variable
Fluoro Exposure time	0.01 – 5.0min.	0.01 – 5.0min.	0.01 – 5.0min.
Digital Display	KV, mA, mAs, Timer (Display on Control Panel)	KV, mA, mAs, Timer (Display on Control Panel)	KV, mA, mAs, Timer (Display on Control Panel)
X-Ray Tube Type	Rotating Anode Shell Type	Rotating Anode Shell Type	Rotating Anode Shell Type
Rectification	Full way Rectification	Full way Rectification	Full way Rectification
X-Ray Focal Spot	1 mm^2 small, 2.0 mm^2 Large	1 mm^2 small, 2.0 mm^2 Large	0.6 mm^2 small, 1.5 mm^2 Large
Optional	Floor to ceiling tube stand	Floor to ceiling tube stand	Floor to ceiling tube stand
Tube stand	Ceiling free tube stand	Ceiling free tube stand	Ceiling free tube stand
Table	Motorized table with moving grid	Motorized table with moving grid	Motorized table with moving grid
Image Intensifier (IITV)	9” High Resolution image intensifier with high resolution CCD Camera	9” High Resolution image intensifier with high resolution CCD Camera	9” High Resolution image intensifier with high resolution CCD Camera
Monitor	High Resolution LED monitor	High Resolution LED monitor	High Resolution LED monitor

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Phase Converter	3 Phase to 1 Phase converting transformer	3 Phase to 1 Phase converting transformer	3 Phase to 1 Phase converting Transformer
H.V. Cable	H.V. Cables 1 Pair	H.V. Cables 1 Pair	H.V. Cables 1 Pair
H.V. Transformer	H.V. Transformer Oil Cooled With stand	H.V. Transformer Oil Cooled With stand	H.V. Transformer Oil Cooled With stand
Optional Vertical Stand	Vertical stand with moving grid.	Vertical Stand with Moving Grid.	Vertical Stand with Moving Grid.

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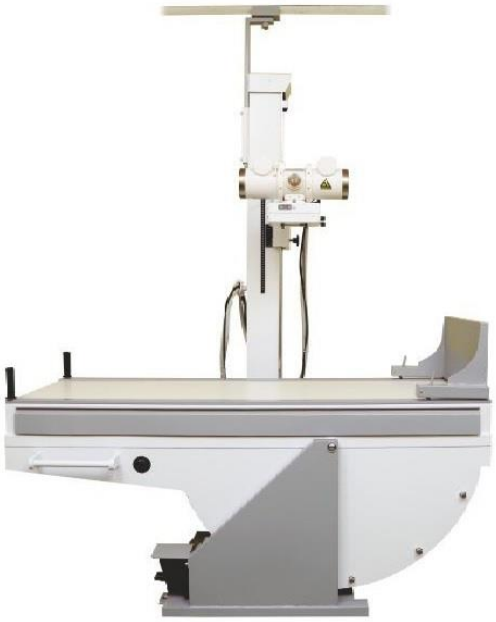
HF Radiography& Fluroscopy X-Ray Systems – 9E02

Advin, HF Generator series offers advanced high quality radiographic capabilities with unmatched performance and reliabity resulting in the lowest cost of ownership over the product liftime.

This Generator is suitable for film & CR-based radiographic systems & features leading edge micro-processor based controls to minimizepatient doze and maximize image quality while demonstrating excellent reproducibility with user- frindly operator controls.

Advanced Features:



- Anatomical Programs available in many languages that are easily edited by the operator membrane control console.
- Automatic tube calibration.
- Field Upgradable for your Future imaging requriments.
- Services Software allows fast and easy set up as well as systems diagnostics for off-site analysis.
- Cost Effective for all radiogaphic applications for Hospitals, Medical Clinics, Chiropratic & veterinary Applications.
- Small, compact & light Weight
- Low kV ripple – maximizes image quality by providing constant potential performance.
- Technique Selection:
    1. kV with AEC
    2. kV / mAs
    3. kV / mA / Time
    4. Patient / Body Part Thickness (membrane Control Console)

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Technical Specification:

Model No.	09E0250	09E0265	09E0280	09E02100
Rotor Supply	Low Speed Starter (optional Dual Speed Starter)			
Generator Type	High Frequency Output (Max 400 KHz)			
Input Phase	3ϕ / 400 -480 VAC			
Power De-rating	<360V AC Line De-Rating Required			
Compatible X –ray tube	>300 Tubes Models			
Anatomical Programs (APR)	1024 / 20000 + techniques			
Image Receptors	Up to 6			
Technique Selection	kV /AEC, kV/ mAs, kV / mA / ms or kV / cm Thickness (requires standard console)			
Communication Ports	USB, CAN, Ethernet, RS485, RS232, RS422			
Auxiliary Collimator Power Supply	Standard Features			
GenWare Service Software	WEB-based diagnostic and technical support			
Radiography	50kW	65kW	80kW	100kW
kVp Rang	40 -150 kV in increments			
kVp Accuracy	±2% for 90 – 110kV; (5% + 1kV) for 40 – 150kV			
High voltage ripple	<1kV @ 110kV with 21 m (70ft) cables			
Rise Time (10% - 90%)	<0.75 ms (0.5ms typical)			
mA Range / steps (1 mA / 0.1mA steps optional)	10 -630 mA/ R' 10 Or R' 20	10 -800 mA/ R' 10 Or R' 20	10 -1000 mA/ R' 10 Or R' 20	
mA Accuracy	±(5% +1mA) measured after 5 ms for exposures > 5 ms ±20% for exposures < 5 ms or ≤ 0.5mAs			
Exposure Timer Range	1 – 6300ms in in 1 ms increments (up to 99s Optional – consult factory)			
Exposure Timer Accuracy (measured At 75% points of kV waveform)	±(2% + 0.5ms) for 5 – 6300 ms ±(10% + 1 ms)for < 5 ms or < 0.5 mAs			
mAs Range (non – AEC) / steps	0.1 – 1000 mAs / R'10			
Mas Accuracy	±(10% + 0.2 mAs)			
Fluoroscopy	50kW	65kW	80kW	100kW
kVp Range	40 – 125 kV steps			
kVp Accuracy	±2% for 90 – 110 kV; ±5% + 1kV) for 40 – 125kV			
High Voltage ripple	<1kV @ 110kV & 5mAwith 21 m (70Ft) cables			
mA Range /Steps	0.5 -20mA in 0.1 mA steps			
mA Accuracy	±(5% + 1mA); ±20% for exposures < 6.7 mA			

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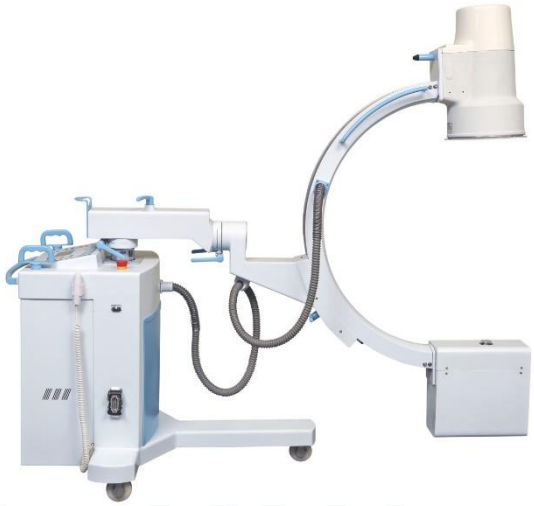
Advin C –Arm – 9L01

ADVIN X-ray & Radiological equipment's are Introducing Mobile C-arm IITV system HFSeries. This highfrequency inverter based X-ray system gives the excellent image quality.

This C-arm system is mainly useful fororthopedic, Urology, Gastro, Neuro & Pain management. This Mobile C-arm IITV system is microcontroller based & this 3.5kW C-arm system produces ripple free X-rays.

Advanced Features:

- Ergonomically well designed fully counterbalanced, compact & Light Weight C –Arm design.
- Heat & Fire proof wiring (use of teflon Wire).
- Well design & fabricated structure fitted on heavy duty wheel with double ball bearing give smooth mobility.
- Tube Overloading auto protection controlled by micro controller.
- System has 5 Type of Mode for operating convinces.
    1. Manual Mode
    2. S mode
    3. Pulse Mode
    4. HD mode
    5. ABS mode



Application:

Orhtopedic / Truma / Spine Surgery

Urology / Lithotripsy

Gastro / Neuro / Pain Management

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Image Intensifier:

9” triple filed latest series within metal input ll for unrivalled resolution, low structural noise & high conversion factor.

Charged Coupled Device (CCD) Camera:

High resolution CCD Camera specially designed to operate with image intensifier at low input of 0.3 Lux Output, 625 lines / flied.

Advantages of HF Generator:

- Gives 70% - 80 % more output.
- Output wave form is practically constant at peak value, thus the output is very efficient.
- Negligible soft-radiation hence skin does is low.

Exceptionalimages Quality:

Delivers consistent, undistroreted edge-to-edge image quality and superb contrast resolution to support critical decisions. Take a high resoultion digital exposure to check device placement.

Technical Specification:

Model No.	2I0135	2I0150
Power	220 V / 50Hz, 15 A ±10%	220 V / 50Hz, 15 A ±10%
Type of Generator	40KHz High Frequency	40 kHz High Frequency
Tube Type	Double focus stationary anode	Double focus stationary anode
Focal Spot	Small Focus: 0.6 mm x 0.6 mm Large Focus: 1.5 mm x 1.5 mm	Small Focus: 0.6 mm x 0.6 mm Large Focus: 1.5 mm x 1.5 mm
Fluoroscopy kVp	40 – 110kVp (single Step)	40 – 110kVp (single Step)
Normal Fluoroscopy	0.1 – 3.0 mA	0.1 – 4.0 mA
HD Fluoroscopy	0.1 – 5.0 mA	0.1 – 8.0 mA
Fluoroscopy Timer	Temperature controlled (5 Min. Cumulative)	Temperature controlled (5 Min. Cumulative)
Radiographic mAs	Up to 200 mAs.	Up to 200 mAs.

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Radiographic Timer	An Inbuilt Rad timer enable to show continuous variable mAs for radiography	An Inbuilt Rad timer enable to show continuous variable mAs for radiography
Automatic Dose Rate	ABS Control is provided	ABS Control is provided
Self-Diagnostic	Self-Diagnostic Errors	Self-Diagnostic Errors
Image Intensifier	9” Triple Filed Image Intensifier	9” Triple Filed Image Intensifier
Camera	High resolution CCD camera, Optional 1 k X 1K camera	High resolution CCD camera, Optional 1k X 1K camera
Display Monitor	2 Nos. Monitors of 17” LED’s /LCD Optional 1 No. 32” LED’s / LCD	2 Nos. Monitors of 17” LED’s /LCD Optional 1 No. 32” LED’s / LCD
Memory	100 frames images memory with LIH with IR remote support. External USB Drives Carry	100 frames images memory with LIH with IR remote support. External USB Drives Carry

C –Arm Mechanicals	
Axial Rotation	±180°
Source To II distance	900 mm
Arc Orbital Movement	200 mm
Arc – Depth	640 mm
Horizontal Movement	200 mm
Vertical Movement	400 mm
Swivel Range	± 12.5°
Clearance	775 mm
Lateral Movement	Steering Handle
Locking Mechanism	Locks for all the manual movement of C -Arm

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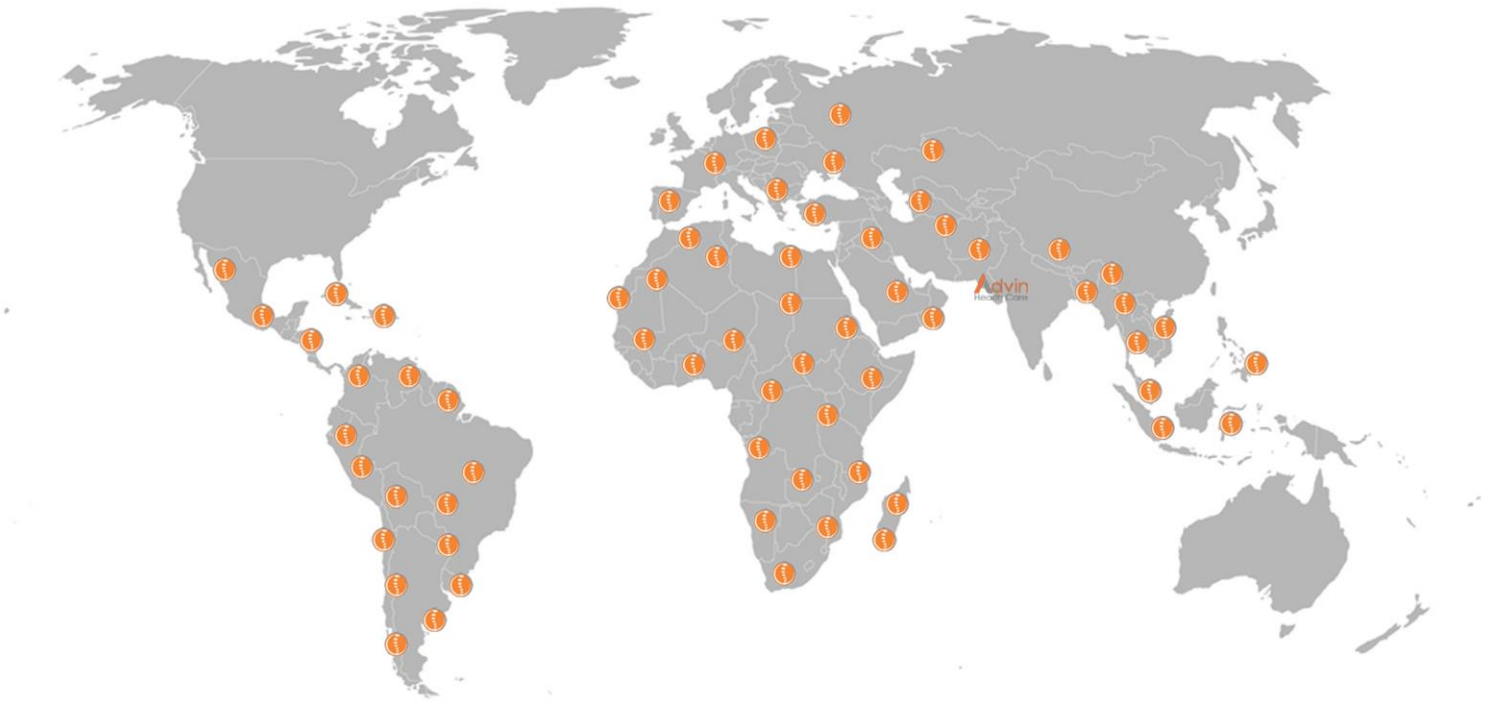

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