

Diagnostic X-ray System & X-ray Components



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 **DONGMUN CO., LTD.**

VISION



We are proud of our excellent designing and engineering capability in X-ray technology which make us to manufacture the high quality X-ray machines.

Our product lines are wide from systems and components.

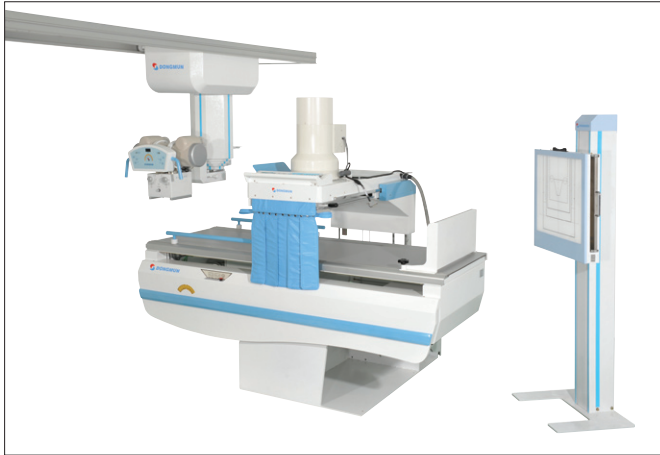
Dongmun is applying the X-ray products to more than 60 countries over the world, including world famous X-ray Systems manufacturers.

Dongmun's products are welcomed to supply OEM or ODM basis.

HISTORY

1994	Established Dongmun Co., Ltd	2007	Certified, GOST
1997	Establish sister company of Dongmun IRS (Joint-venture Bauer Kompost and IRS, Germany) for manufacturing Food Kompost machines		CE Certified for X-ray Generators
1998	Moved head office to Ilsan-city	2008	Award "Excellent Business Achievement" from Kyonggi Province Government
1999	Approved, a promising enterprise (Kyonggi Province Government)		Award "Excellent Medical Products Manufacturer" from KFDA
	ISO 9002 (DNV)		CE Certified, X-ray System (EVPU)
	Selected, Internet Frontier Enterprises (Kyonggi Province Government)		Award "Best Exporter of this month" from Ministry of knowledge Economy & The Korea Economic Daily & Korea International Trade Association
2000	Registered, KFDA		CE Certified for X-ray Grids (DNV)
2001	CE Certified, X-ray Grids (DNV)	2010	CE Certified for X-ray Grids (EVPU)
	Approved, a promising enterprise (Kyonggi Export Supporting Center)		Approved as an export promising enterprise (Small & Medium Business Administration)
	CE Certified, Automatic X-ray Film Processors (DNV)		Appointed as Venture Company (Small & Medium Business Administration)
2003	ISO 9001 (DNV)		Appointed as Inno-Biz Company (Small & Medium Business Administration)
	Processors / X-ray Chemicals / X-ray Accessories (DNV)	2011	Award "The World First Class Product Company" from Ministry
	Appointed as the family enterprise of Korea Aviation University		Award "Korea Precision Industry Meeting" from Knowledge Economy Ministry
	Joint development DIG-310 with Korea Aviation University and Kyonggi-do local government		Win the trophy of "World-top quality X-ray System" from Korea Productivity Center and Korea Ministry of Knowledge Economy
2004	Award "Excellent Exporter Trophy" from Ministry of Industry and Resources	2012	CE Certified, Diagnostic Radiography and Fluoroscopy X-ray System, DM-6150RF Series
2005	CE Certified, for Portable X-ray Unit, DIG-360 (DNV)		CE Certified, Diagnostic Radiography X-ray System, DM-6150 Series
2006	ISO 9001 / ISO 13485 (DNV)		CE Certified, Surgical Mobile X-ray System, XENO-360
	CE Certified, Portable X-ray Unit, (DNV)		Excellent Exporter Trophy from the President of Korea
	Appoint as Family company of Korea Aviation University for Tech-cooperation		

• X-ray System, Radiography & Fluoroscopy (Two Tubes)



• DM-RFT-5 DIAGNOSTIC TILTING TABLE

This table is suitable for wide range of Fluoroscopy and Radiography examinations.

It's compact size and sturdy construction makes it an ideal table for small hospitals and medical practices where space is a premium.

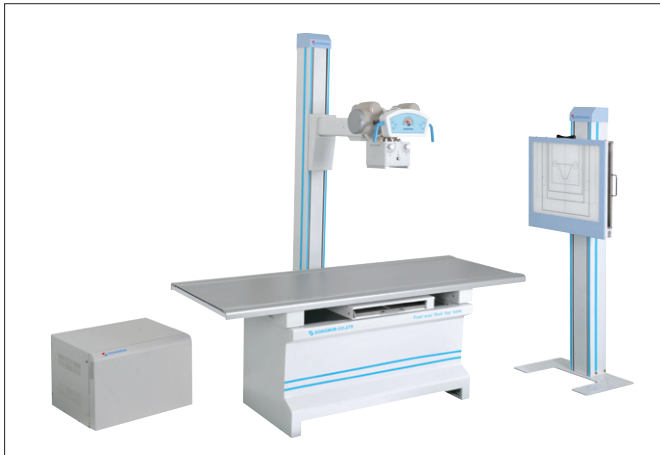
• Features

- Sturdy and compact design resulting in smooth movements for patient's comfort.
- Wide range of Fluoroscopy and Radiography examinations.
- Exceptional range of travel of the tabletop and spot film device.
- Smooth motor driven tilting from +90° to -15° [Option: -20°] with an automatic 0° stop.

• Specifications

Model	DM-1150RF	DM-6150RF	DM-5125RF
Generator	DIG-1150	DIG-650	DIG-525
X-ray Tube	E7254X, E7239X	E7252X, E7239X	E7239X
High Tension Cable	12M×2, 6M×2 Selectable	←	←
RF Tilting Table	DM-RFT-5	←	←
Tube Support Unit	DM-FCT-1	←	←
Collimator	DM-LB50, DM-LBF50	←	←
Bucky Stand	DM-VB-1	←	←
Image Intensifier	12", 9", 6" Selectable	←	←
Monitor	21", 19", 17", 14" Selectable	←	←

• X-ray System, Radiography & Fluoroscopy (Two Tubes)



• Specifications

Model	DM-1150	DM-6150	DM-5125	DM-3125	DM-200	DM-100
Generator	DIG-1150	DIG-650	DIG-525	DIG-325	DIG-200	DIG-100
X-ray Tube	E7254X	E7252X	E7239X	←	←	←
High Tension Cable	12M×2, 6M×2 Selectable	←	←	←	←	←
Bucky Table	DM-BT-1	DM-BT-1	←	←	←	←
Tube Support Unit	DM-FCT-1	DM-FCT-1	←	←	←	←
Collimator	DM-LB50	DM-LB50	←	←	←	←
Bucky Stand	DM-VB-1	DM-VB-1	←	←	←	←
Option 1	Ion Chamber for AEC					
Option 2	1-Detector: 14×17, 2-Detector: 17×17					

• X-ray System, Radiography & Fluoroscopy (Two Tubes)



• Description

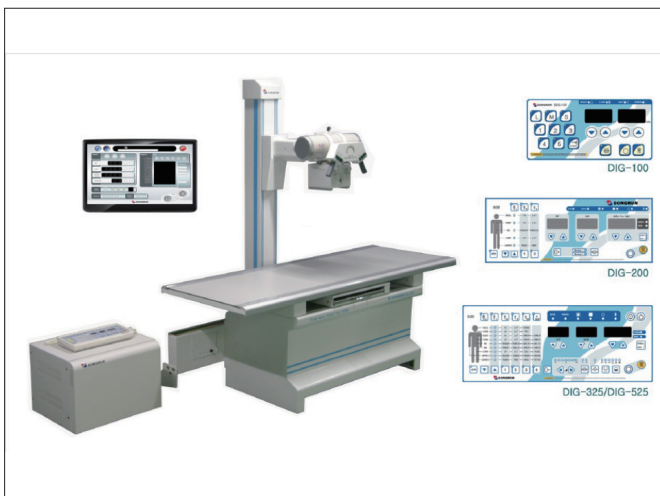
This system is specially designed for patients standing, setting, being recumbent.

- For operation at small space.
- Fully counter-balanced for all positions and angulations
- Variable selection of focal distance by motor-driven.
- Versatile positions capabilities can meet any requirements from all diagnostic techniques.
- All the movement is braked by electro-magnetic locking systems.
- Stretcher table of heavy duty radioucent tabletop is freely rolled.

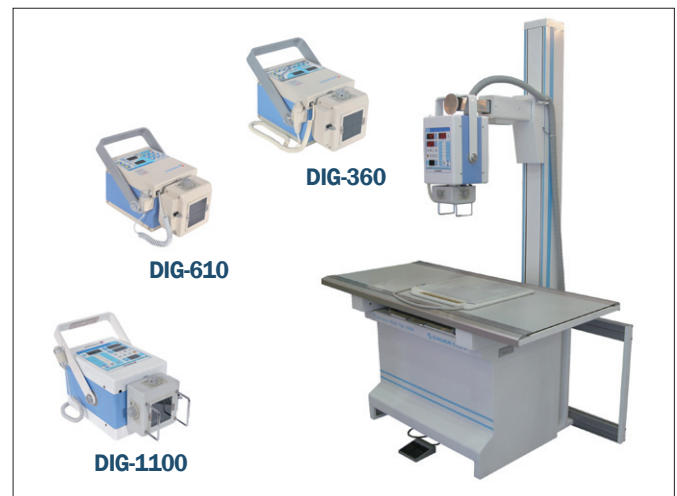
• Specifications

	Multi-Purpose Tube Support Unit	
	Expansion / Contraction / Swiveling / Up-Down Movement	
U-Arm (Motor Driving)	Vertical Movement	Motor-Driven 90 - 190cm
	Swiveling	Manual $\pm 180^\circ$
Handle Bar	Rotation of X-ray Tube Unit	$\pm 180^\circ$
Bucky Device	Reciprocating	Solenoid or Motor
	Tilting	$\pm 15^\circ$ (Option: $\pm 45^\circ$)
	Film Format	Up to 14×17 Inch (35×43cm)
	Cassette Loading	Front Loading
Moving Table	Bucky Grid	103LPI
		6mmT Laminated
		Four Locking Wheels
Option 1	Maximum Load: 200Kg	
Option 2	Ion Chamber for AEC	
	Detector	

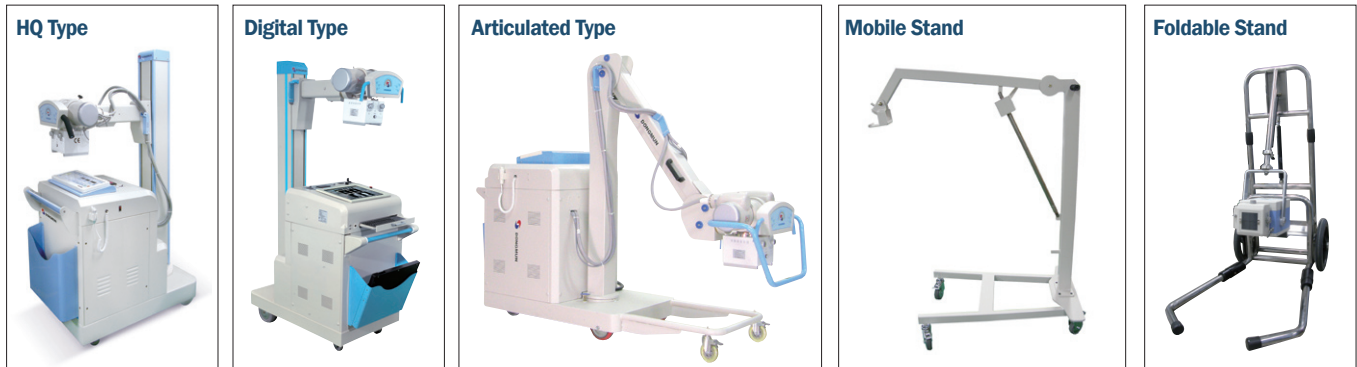
• Digital TIGT X-ray System



• Digital TIGT X-ray System, Veterinary



• Mobile X-ray Systems



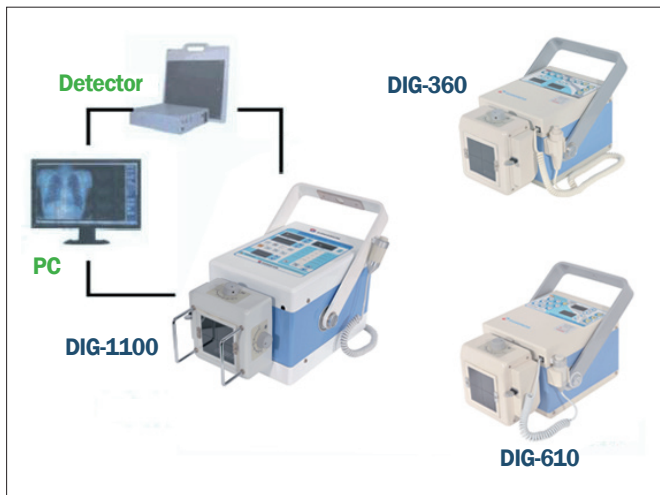
• Features

- User-friendly operation console and data display
- Calibration program satisfy specification of various X-ray tubes and cable length
- Self-diagnostic mode with error display improving fast fault detection
- Anatomical mode over 15-216 views for manual storage by operator
- Automatic settings of optimal technical conditions for the best images
- Precision mA and KV Feedback control
- AEC Selection (Option) for high precision of exposure time mode selection and mAs selection with use of ion chamber
- Long lasting power storage unit (PSU) is buyer's option.

• Specifications

	System Model	DM-100MR	DM-200MR	DM-325MR	DM-525MR	
Generator	Model	DIG-100	DIG-200	DIG-325	DIG-525	
	Power rating	12.5KW	15KW	32KW	40KW	
	KV accuracy	40-125(±10%+1kV)	40-125(±10%+1kV)	40-125(±10%+1kV)	40-125(±10%+1kV)	
	mA range	100	50,100,150,200	10 - 400mA	10 - 500mA	
	Time range	±5%+1mA	±5%+1mA	±5%+1mA	±5%+1mA	
	mAs range	-	1mS-10sec	1mS-10sec	1mS-10sec	
	APR	15	216	216	216	
	Bucky	1 unit standard	2 unit standard	2 unit standard	2 unit standard	
	Line power		220/240V	220/240V	220/240V	220/240V
			50/60Hz, 1	50/60Hz, 1	50/60Hz, 1	50/60Hz, 1
	Line compensation		±10%	±10%	±10%	±10%
X-ray tube	Rotating anode type	1.0X2.0mm	1.0X2.0mm	1.0X2.0mm	1.0X2.0mm	
		dual focus	dual focus	dual focus	dual focus	
Tube stand	Model	DM-FCT-1	DM-FCT-1	DM-FCT-1	DM-FCT-1	
	Lock	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	
	Vertical movement	950-1650mm	950-1650mm	950-1650mm	950-1650mm	
	Transversal movement	600-770mm	600-770mm	600-770mm	600-770mm	
	Rotating movement	±180° at each 90°	±180° at each 90°	±180° at each 90°	±180° at each 90°	
	Angle indication	±180°	±180°	±180°	±180°	
Handle bar	Model	DM-LB50	DM-LB50	DM-LB50	DM-LB50	
Collimator	Manual driven	AC24V, 100W	AC24V, 100W	AC24V, 100W	AC24V, 100W	
High voltage cable	Federal ends	3m X 2	3m X 2	3m X 2	3m X 2	
Mobile cart	Transportation	manual stop standard with cassette box	manual stop standard with cassette box	manual stop standard with cassette box	manual stop standard with cassette box	
Dimensions		1170Lx560Wx1870H	1170Lx560Wx1870H	1170Lx560Wx1870H	1170Lx560Wx1870H	
Net weight		Approx. 150kg	Approx. 150kg	Approx. 170kg	Approx. 170kg	
Option	1. PSU	option	option	option	option	
	2. Electric transporting	option	option	option	option	
	3. Wireless type	-	-	option	option	
	4. Flat-panel detector		-	-	10 X 12" portable	10 X 12" portable
					14 X 17" portable	14 X 17" portable

• Portable X-ray Systems



• Description

Dongmun's another innovation; Portable X-ray Unit is Digital Technology High Frequency Inverter Type to provide the high efficiency in X-ray equipments, designed for uses in large hospitals, clinics, private practices, dental clinics bed-side diagnosis and emergencies, veterinary.

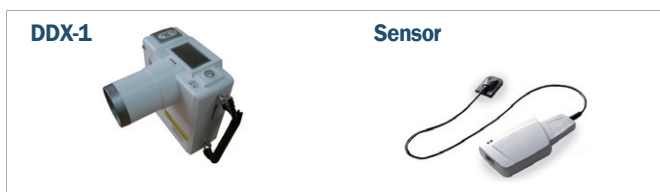
• Features

- Compact and light weight design.
- Digital LED display, reversible.
- 6 selection presetting anatomical memory mode.
- Line voltage compensation.
- Remote control hand switch, for exposure.
- Halogen lamp collimator.
- Scale tape for SID measurement & laser pointer.

• Specifications

Model	DIG-360	DIG-610	DIG-1100
Generator	High Frequency, inverter	High Frequency, inverter	High Frequency, inverter, Capacitor bank
Maximum Output	35mA/100kV	60mA/100kV	100mA/110kV
Power Rating	2.4kW	3.2kW	5.0kW
Frequency	70kHz	50kHz	50kHz
kVp selection	40kV-100kV, by 1kV step	40kV-100kV, by 1kV step	40kV-110kV, by 1kV step
mA selection	-	-	20-100mA, Variable
mAs selection	0.4mAs-100mAs, 25 steps	0.4mAs-100mAs, 25 steps	0.1mAs-100mAs, 38 steps
X-ray tube	Focal spot : 1.2 mm	Focal spot : 2.0 mm	Focal spot : 1.5 mm
Anatomical program	Memories for 6 selection	Memories for 6 selection	Memories for 750 selection
Display	7-segment LED read-out	7-segment LED read-out	LED read-out : kV, mA, mAs/sec,
Collimator	Auto timer, DC24V, 100W	Auto timer, DC24V, 100W	Auto timer, DC24V, 100W
	Halogen lamp. 30sec	Halogen lamp. 30sec	Halogen lamp. 30sec
	Light Field Min,	Light Field Min,	Light Field Min,
	5X5cm@1m SID - Max,	5X5cm@1m SID - Max,	5X5cm@1m SID - Max,
	35X35cm@65cm SID	35X35cm@65cm SID	35X35cm@65cm SID
	SID scale length : 2m	SID scale length : 2m	SID scale length : 2m
	Laser pointer 110/220V AC	Laser pointer 110/220V AC	Laser pointer 110/220V AC
Line Nominal/Phase	110V or 220V AC,50/60Hz, single phase	110V or 220V AC, 50/60Hz, single phase	110V or 220V AC, 50/60Hz, single phase
Line Voltage Compensation	±10%	±10%	±10%
Accessories	Hand Switch, Power cable, Carrying case, Shoulder band	Hand Switch, Power cable, Carrying case, Shoulder band	Hand Switch, Power cable, Carrying case, Shoulder band
Dimensions	350L X 250W X 206H mm	350L X 250W X 206H mm	430L X 240.5W X 219H mm
Weight (Net)	Net weight : 12.5kg	Net weight : 13kg	Net weight : 19.6kg
Option	Mobile stand, Portable detector assembly 10X12", 14X17"		

• Dental X-ray Unit

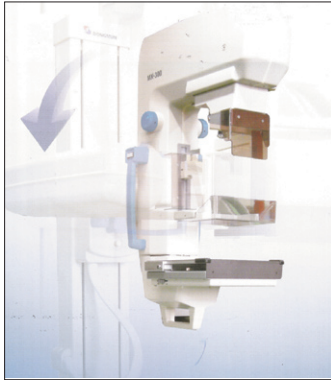


• Features

- Light and small with rechargeable battery enables easy shooting and keeping everywhere
- Small dose of radiation keeps patients and dentists away from radiation
- High performance Tube and HFG makes sharp and clear images
- Use with digital sensor option as well as chemical film



• Mammography X-ray System



• Features

- Unsurpassed Image Quality and Easy Operation
- Stable Output by the Inverter System
- Full AEC Mode (Auto KV)

- Auto Release Compression after Exposure
- High Performance Dual Focus System

Intelligent Automatic Exposure Control (AEC)

With the Automatic Exposure Control System, it is possible to produce images with reliable intensity suitable for any film, screen, or method of radiography. Furthermore, it greatly enhances the convenience of

radiography by embedding the Full-AEC function which is capable of utilizing the Auto KV.

- High Sensitive Fiber Grid Bucky Device
- 19 Step Density Control
- 2 Precise Collimation Formats

• Specifications

Part	DMX-300	
Generator	Type	High Frequency Inverter
	Radiographic Ratings	Large Focal Point 22-35KV/1-600mAs, Small Focal Point 22-35KV/1-600mAs
X-ray Tube	Focal Spot Size	Dual Focus 0.3 and 0.1mm
	Rotating Anode	Molybdenum (Mo) / 300KHU
	Port Material	Beryllium (Be)
	Filtration	Mo
Radiographic Stand	C-Arm	Vertical 560 - 1340mm, Rotation Right 180° / Left 160°
	SID	660mm Fixed Distance
	Compression	Manual and Motorized (Max 8Kg), Automatic or Manual Release
Bucky Device	Cassette Size	18×24cm
	Grid	Reciprocating, 4:1 line/inch
Automatic Exposure Control	Type	Solid-State Detector, Micro Processor Control
	Mode	Full / Semi / Manual
	Density Adjustment	19 Density Steps
Optional	24×30cm Bucky Device, Magnification Device, Compression Force and Thickness Display Unit, Pb Acryl Plate	
Line Voltage	200-220VAC, 50/60Hz, Single Phase	

• Mobile X-ray Systems



• Features

- User friendly operation/positioning design with high safety and stability.
- Superior quality image with high resolution for distortion-free
- Full digital interface capability
- Inverter type high voltage generator of high power output

- C-Arm SID 1000mm
- Intelligent automatic and smooth movement
- Last image hold
- Soft control and efficient braking units

• Specifications

Part	XENO-360		
Generator	Type	High Frequency Inverter	
	Output	Maximum 2.2KW	
	KV	40 - 110KV (1KV Step)	
	mA	0.5 - 4mA (Fluoroscopy), 5 - 10mA (Boost Mode), 20mA (RAD Mode)	
	ABC	Auto Bright Control	
	Pulses	2 Pulses/sec	
X-ray Tube	Type	Stationary Anode Tube	
	Focal Spot	0.5 / 1.5mm	
	Heat Capacity	45kHU	
	Target Angle	16 Degrees	
	Tube Voltage	Maximum 110KV	
Image Intensifier	Type	High Definition	
	Field Size	6"	
	Resolution	9" (Triple Field): 9", 6", 4.5"	
		6": 54Lp/cm	
Weight	9" (Triple Field): 66Lp/cm, 56Lp/cm, 48Lp/cm		
Power Requirement	Approximate 220Kg		
	220VAC, 50/60Hz, 3.5KVA, Single Phase		

• X-ray Film Processor, Automatic



• Specifications

Model	DSP-33SQ	DSP-3800	DSP-5000	DSP-8000
Type	Continue roller	Continue roller	Continue roller	Continue roller
Processing Time	90sec	90/120/180/210sec	90/120/180/210sec	45/60/75/90/120/ 120/180/210/240sec
Throughput	35×45cm-115films/hr 25×30cm-200films/hr	35×45cm-150films/hr 25×30cm-190films/hr	35×45cm-200films/hr 25×30cm-280films/hr	35×45cm-300films/hr 25×30cm-420films/hr
Film Size	35cm	43cm wide maximum	43cm wide maximum	43cm wide maximum
Tank Capacity	Developer 8.2L Fixer 5.2L Wash water 5.2L	Developer 10L Fixer 10L Wash water 10L	Developer 21L Fixer 21L Wash water 11L	Developer 21L Fixer 21L Wash water 17L
Replenishment	Developer 20L Fixer 20L	Developer 30L Fixer 30L	Developer 60L Fixer 60L	-
Power	220VAC, 50/60Hz Single Phase	220VAC, 50/60Hz Single Phase	220VAC, 50/60Hz Single Phase	220VAC, 50/60Hz Single Phase

• Automatic Dental X-ray Film Processor

• Features

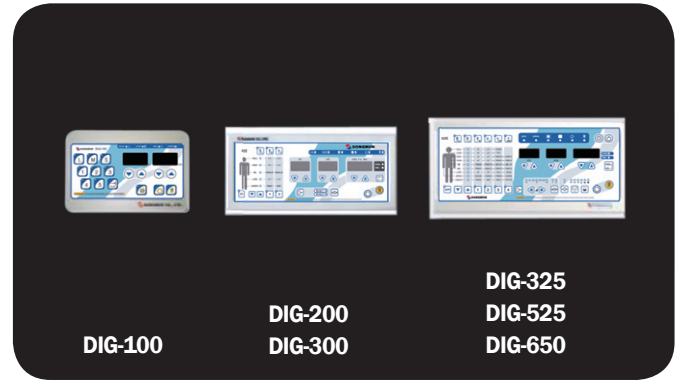
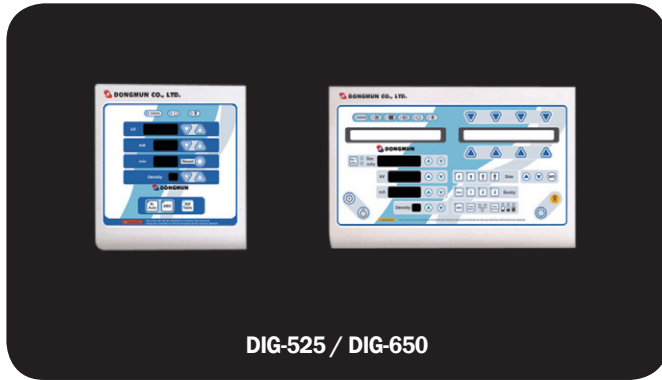
- Develop all types and formats of dental films
- Dental processing automatically to set optimum
- Chemical savings by 50%
- Built-in type single roller transport system
- Simple touchpad design

• Specification

Model	DSP-200
Film Size	30-350mm in width
Processing Time	4-5minutes
Process Temp	28-34
Tank Capacity	1.6liters with each tank
Line Voltage	AC110V/220V/230V



• X-ray Generator



• Tube Support Units



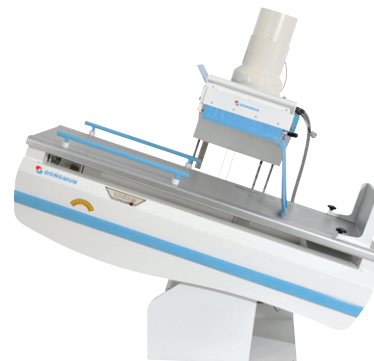
• Description

Dongmun Tube Support Units series are designed for heavy duty usage with all tables and erect bucky stands, assuring a wide and precise tube positions with stability, rigidity of tube arm and support capacity.

• RF Tilting Table

• Features

- Sturdy and compact design resulting in smooth movements for patients comfort
- Wide range of Fluoroscopic and Radiographic examinations.
- Exceptional range of travel of the table top and spot film device
- Smooth motor driven tilting from +90° to -15°
- +80 to -50cm table top movement allows whole body examinations
- Short distance between the table top and the bucky (6.5cm)
- Front loaded spot film device
- Fully motorized spot film device capable of film divisions



• Bucky Table



• Description

Dongmun Bucky Table Series are designed for versatile and efficient radiographic procedures and to reduce patient positioning time and efforts. They require minimum space for installation and very convenient control.

DM-BT-6, 6-way Floating / Elevating Table Top Bucky Table
DM-BT-1, 4-way Floating Table Top Bucky Table
DM-FT-1, Fixed Table Top Bucky Table

• Vertical Bucky Stand



• Description

Dongmun Vertical Bucky Stand, DM-VB-1 is designed for space efficiency and adopt free standing mounting and counter weight balance system, it is engineered for use of radiography of chest, skull. The height is widely adjusted from 50 to 165cm above the floor level.

• Collimators (DM-LB50, DM-LBF50, DM-LBA50, DM-LB10)



DF, Motor



DR, Manual



DRF, Motor



DRP, Manual

• Description

The dongmun beam limited diaphragm is designed for a wide range of general purposes radiography in combination with all kinds of X-ray tube unit. Beam is collimated by two control knobs allowing a stepless adjustment of field size.

• Features

- Provided with a push button switch timer to automatically switch off the lamp of light localizer in 30seconds.
- The lamp of light localizer easily replaceable with minimum error of the same.
- Lamp position and the lamp filament position can be easily adjusted.
- Maximum shutter opening of collimator is 48 × 48cm at SID 100cm.
- Minimum X-ray field size at SID 100cm is 0 × 0cm (Blades overlapped).
- The average illumination of light field at SID 100cm is 160Lux or more.
- The contrast ratio on the light field edge is 4 : 1 or more, which allows an easy identification of light field and its size.
- Leakage radiation is within 30mR/h at a position 100cm from the focal spot.

• Specifications

Model	DM-LB50			DM-LB10
Type	DR, Manual	DF, Motor	DRF, Motor	DRP, Manual
Maximum kVp	150kVp	□	□	100kVp
Maximum Field Size	48×48cm at SID 100cm	□	□	□
Minimum Field Size	0×0cm at SID 100cm	□	□	□
Projection Lamp	24V-150W Halogen Lamp	-	□	12V-50W Halogen Lamp
Lamp Timer	Push Button, 30s Timer	-	□	□
Light Projection	more than 160Lux at SID 100cm	-	□	□
Inherent Filtration	1.2mm Al Equivalent	□	□	0.5mm Al Equivalent
Field Cover Scale	13,15,18,20,23,25,28,30,36,40cm	□	□	□
SID Indication Scale	90, 100, 120 and 180cm	□	□	□
Leakage Radiation	Not more that 30mR/h	□	□	□
Rotation of Radiation	180 Degree	-	□	□
Cone Rail Tracks	Mounted	-	Mounted	-
Electric Requirement	24VAC, 7A	□	□	□
Option	SID Measurement, Rail for DAP, LED Lamp			

• Digital X-ray Detector



• Description

Dongmun's state of the art DMC-17DR/14DR/12DR are an image processing unit that is developed with a Flat Panel X-ray Detector. Detector provides wide active area for an image, and versatile and reliable imaging solutions for your daily diagnostic needs. Its single panel and a-Si TFT active matrix produce high quality images and easy integration to all radiography systems.

Model	DMC-12DR	DMC-14DR	DMC-17DR
Pixel Matrix	2080×2560	2400×2880	3072×3072
Pixel Area (Active)	264×325mm	360×432mm	439.3×439.3mm
Pixel Pitch	127um	150um	143um
Resolution	3.9lp/mm	3.3lp/mm	3.5lp/mm
Energy Range	40 – 150kVp	40 – 150kVp	40 – 150kVp

• Aluminum Interspaced X-ray Grids (AIAC, AICC, FIAC)



• Features

- All types of X-ray grids can be supplied
 - Linear parallel grids, linear () grids, crossed grids
- Our grids have superior performance and offer less absorption and that greatly reduce the scattered radiation producing cleaner and diagnostically superior results
- Grids come in all standard film sizes from 5" × 7" up to 14" × 51"
- Special size grids are available upon request at no extra cost
- Grids destined for grid holders are 1' overall larger than the corresponding film size ensuring a complete coverage of the X-ray film
- Available ratios from 5 : 1 to 15 : 1 – available in standard focal distances
 - Short (25 - 32"), Medium (32 - 44"), Long (48 - 72" or 60 - 72"), Infinity (Parallel)
- Grids are available in the following densities
 - Standard (60 & 70 LPI), Fine (85 LPI), Micro line (103 LPI), Ultra line (130 LPI), Invisible line (150 LPI), Super invisible (200 LPI)

• Specifications

Sizes	13×18cm, 18×24cm, 24×30cm, 30×40cm, 35×35cm, 35×43cm, 44×46cm, 44×48cm, 30×90cm, 30×120cm, 35×120cm,							
	8×10", 10×12", 11×14", 12×15", 14×14", 14×17", 171/4×187/8", 18×18", 14×35", 14×51",							
Ratio	5 : 1, 6 : 1, 8 : 1, 10 : 1, 12 : 1, 15 : 1							
Density	85LPI, 103 LPI, 150 LPI, 200 LPI, 34LPC, 40LPC, 60LPC							
Focal Range	25 - 32", 28 - 48", 34 - 44", 40 - 72", 48 - Infinity, 80cm, 100cm, 120cm							
Grid Types	Focused grids, Parallel grids, Criss-cross grids							
Grid Thickness (mm)	85LPI (34LPC)	1.75	2	2.5	3	3.5	4	
	103LPI (40LPC)	-	1.7	2	2.5	2.9	3.3	

• X-ray Film Cassettes with Intensifying Screen



• Manual Processing Tank



• Cassette Holder for Chest



• Cassette Cart



• Glove



• Lead Glasses



• X-ray Protective Panel



• Cassette Transfer Box



• Thyroid Shield



• Apron

- 0.3mm or 0.5mm PB eq
- Shield Size: Single-sized or double-sized
- Velcro and string tie
- Cover: Washable material
- Sized: small, medium, large

• X-ray Chemicals



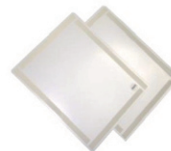
• Lead Glass



• Safety Lamp for Darkroom



• Intensifying Screens



• Ovarian Shield



• Film Storage Box



- Optimum image quality
- Flexible polyester base
- Free from static charge and a scratch
- Compatible with any films

• X-ray Film Dryer



• Apron



• Gonad Shields

