



X-Ray High Voltage Generator

UD150L-40E
UD150L-40F

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SHIMADZU CORPORATION. International Marketing Division
3. Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101-8448, Japan
Phone: 81(3)3219-5641 Fax. 81(3)3219-5710
URL <http://www.shimadzu.com>



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Remarks;
※Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
※The appearances and specifications are subject to change for reasons of improvement without notice.
※Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
※Before operating this system, you should first thoroughly review the Instruction Manual.

X-Ray High Voltage Generator UD150L-40E / UD150L-40F

New Design Concept Ensures Ease-of-Use

The simplest and smoothest equipment procedures are essential for general x-ray radiography, which is the most widely used diagnostic imaging technique. The UD150L-40E/40F incorporates an illumination function plus other advanced features that allows the operator to concentrate on the examination procedure.

One-touch Setting of Exposure Parameters

Advanced APR

The system can register up to 245 exposure parameters. The 35 anatomical program keys can each register the exposure parameters for a series of examinations up to seven projections. After the examination is completed in one projection during a series of examinations, the exposure parameters are automatically updated to the next condition. This feature permits smoother examinations of areas requiring exposures from multiple projections. The Exposure Parameters can be freely setup to match the operator's normal method of operation.

Advanced APR

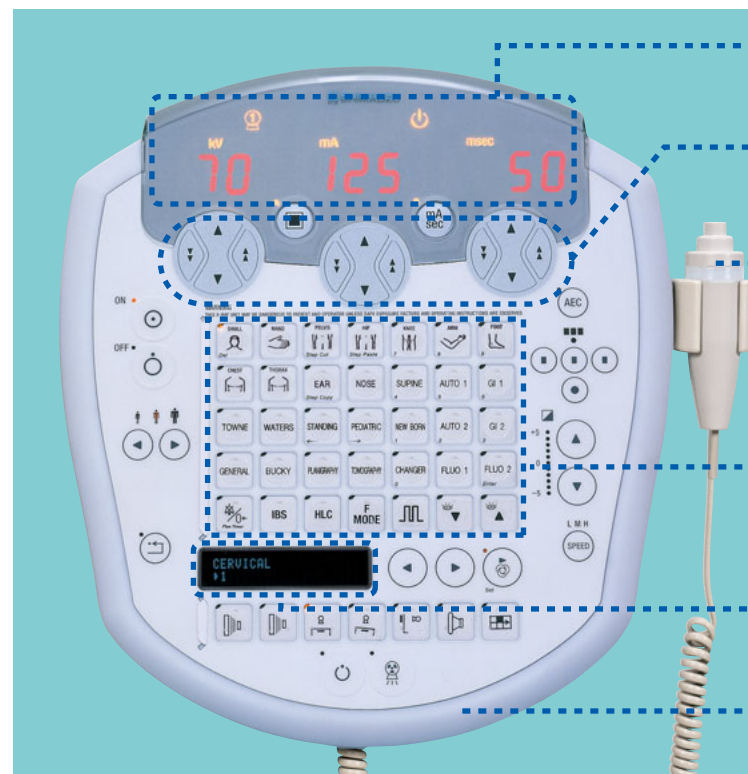
Anatomical Programs **35** modes × Exposure Directions **7** ways

Register up to **245** exposure parameters
(In case of fluoroscopy option is added, the exposure parameters are limited up to 196 kinds.)

Exposure Parameters Are Easy Set Using Hybrid keys

Exposure parameters can be easily changed the hybrid keys. Large changes can be made using the fast up/down buttons and small changes can be made using the up/down buttons. Using both adjustment methods allows exposure parameters to be quickly set.

Fast Up/Down Buttons ▶ Exposure parameters large change
Up/Down Buttons ▶ Exposure parameters small adjustment



Wide Display

Shows the exposure parameters

Hybrid Keys

The exposure parameters are easy set.

Hand switch

Controls X-ray radiography. The hand switch operates in two stages. Press the hand switch to the first stage to prepare for X-ray radiography; press it to the second stage to conduct radiography.

Advanced APR

Sub-display

Shows error messages and setting menus.

Sound function

Illumination

Illumination Function Option



This advanced feature allows the x-ray generator to provide solutions to the following problems, allowing the operator to concentrate on patient care:

- Frail elderly patients who need constant attention.
- Split-second timing is required for patients who have difficulty holding their breath.
- Quick positioning and image capture when required.

New Patient Care Concept Illumination Functions Option

The control panel indicates the status of the x-ray generator (e.g., 'ready status' to acquire the images or exposure in progress) using color perimeter display with audible sound.

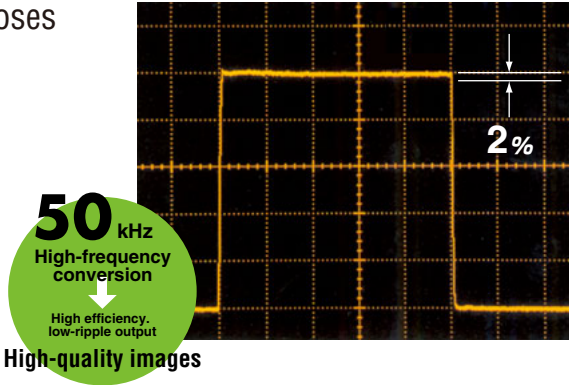
The hand switch also lights up to indicate 'Ready Status'.



Higher Image Quality with Lower X-ray Doses

High-frequency Inverter with a Maximum Frequency of 50kHz

The 'High-frequency Inverter' with maximum frequency of 50kHz is used as the X-ray generation source, which generates low-ripple output with a high X-ray quantum efficiency. This dramatically reduces X-rays that do not contribute to high quality imaging.



Two-way Communications with External Equipment
Anatomical Program Communications Functions

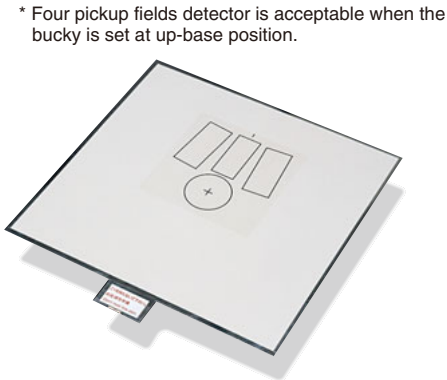
Option
The communications option permits exposure parameters (technique, kV, mA, sec, etc.) and anatomical program number to be received and set from external equipment (RIS, CR, etc.). It also allows the exposure parameters used for radiography to be automatically transmitted to the external equipment.

Protect Anatomical Programs from Unauthorized Changes
Security Functions

A 4-digit password can be set to protect anatomical programs from unauthorized changes and enhance the security of the equipment.

Optimal Image Density
4 Field Photo-timer Pick-up
SPT Photo-timer series

Option
The SPT Photo-timer series adopts 4 field pick-ups. The 4 pick-up field paddle provides more accurate density control due to each pick-up designed for specific parts of the patient's anatomy.



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UD150L-40E/40F

Specifications		
Model	UD150L-40E	UD150L-40F
Techniques	General radiography	
	Bucky radiography	
	Auto changer radiography	
	Tomography	
	Fluoroscopy*1	
Number of X-ray tubes connectable		1 tube 2 tubes
Setting range Radiography	Tube voltage	40-150kV
	Tube current	10-630mA(3-phase 200V*2/ 400V), 10-500mA(Single-phase 200V)
	mAs	0.5-800mAs
	Timer	0.001-10sec.
Setting range Fluoroscopy*1	Tube voltage	50-125kVA
	Tube current	0.3-4.0mA
Preset memory		Advanced anatomical program method: max. 245 user-programmable exposure parameters.
Method of setting		Sheet panel
Self-diagnostic function		Indicated on display and sub-display
Normal power voltage (50/60Hz)	3-phase AC: 200*2/ 220*2/ 240*2/ 380/ 400/ 440/ 480V	
	Single-phase AC: 200/ 220/ 240V	
Recommended capacity of switch board	3-phase AC: 50kVA	
	Single-phase AC: 30kVA	

Rating		
	3-phase 200V*2/ 400V system	Single-phase 200V system
Nominal electric power	50kW	32kW
Short-time rating	150kV 320mA	150kV 200mA
	125kV 400mA	125kV 250mA
	100kV 500mA	100kV 320mA
	80kV 630mA	80kV 400mA
		60kV 500mA
Long-time rating*1	125kV 4mA	125kV 4mA

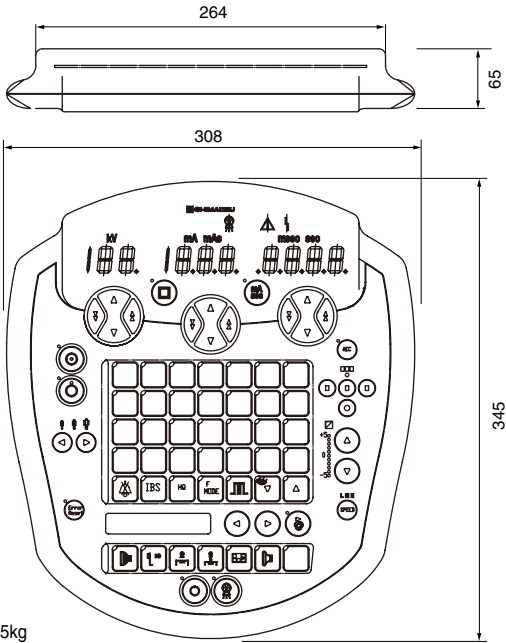
*1Fluoroscopy option is necessary. *2Automatic transformer(option) is necessary for the power supply of 3-phase 200V.

Standard constitutions		
Control panel		1
Control cabinet (including high voltage generator)		1
Connection cable	Power supply – control cabinet	10m
	Control panel – control cabinet	12m

Optional accessories	
• Photo-timer control (for direct use) and Direct photo pickup	
• Starter	
• Illumination option	
• Automatic transformer	
• Communications unit	
• Fluoroscopy option	

Dimensions

Control Panel
1/5 (unit:mm)



Control Cabinet
1/50 (unit:mm)

