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.
Quick positioning and image capture when required. The console panel indicates the status of the X-ray generator (e.g., ‘ready status’ to acquire images or exposure in progress) using color perimeter display with audible sound.

Ergonomically designed to ensure ease of use

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

- The console 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’.

UD150B-40 / UD150V-40 / UD150L-40
All radiographic exposure parameters are clearly and easily displayed on the large LED Panel.

Independent Technique Selection

The technique and tube settings can be selected independently without changing any parameter such as the "kV", "mA" and "sec" settings.

Advanced APR

(Anatomical Program)

Up to 400 Anatomical Programs can be registered on the system. Registering the conditions as programs associated with examination area and technique allows conditions to be set up smoothly. Each technique selection has 7 anatomical regions that can be selected. Each anatomical region has 15 user-definable techniques associated with it. (This setting can be changed to 20 if required.) Furthermore, up to 7 different directions can be stored in each technique key; each time one direction is taken, the exposure conditions can be automatically changed according to the next direction. This feature is particularly effective for inspections of areas requiring exposure from several different directions, such as for orthopedic surgery.

Maximum number of APR settings

400 memories

Exposure Technique Selection

Examination-area tab key settings: 7 regions

Each key: 15 techniques

Exposure directions

7 ways

The setting for the number of registrable items can be changed to 20.

Exposure Acquisition History Display

The last 64 sets of exposure parameters are stored in memory detailing the individual parameters used. The data can be used to check results or to create X-ray exposure records.

The 'History Data' can also be used to set new exposure parameters required for new or current examinations.

Exposure Parameters

Are Easily Set Using Hybrid Dials

X-ray parameters can be easily changed using the hybrid dials. Large changes can be made using the jog/shuttle control and small changes can be made using the up/down buttons. Using both adjustment methods allows exposure parameters to be quickly set.

Color LCD Touch Panel

A high visual clarity color LCD touch panel is used for all APR selections/display. For ease of use the panel uses different colors for different functions.

Easy Operation

X-ray parameters can be adjusted independently without changing any parameter such as the "kV", "mA" and "sec" settings.

X-ray parameters can be easily changed using the hybrid dials. Large changes can be made using the jog/shuttle control and small changes can be made using the up/down buttons. Using both adjustment methods allows exposure parameters to be quickly set.

Color LCD Touch Panel

A high visual clarity color LCD touch panel is used for all APR selections/display. For ease of use the panel uses different colors for different functions.
**High Image Quality with Advanced High-frequency Inverter**

**High-frequency Inverter with a Maximum Frequency of 50 kHz**

The 'High-Frequency Inverter' with a maximum frequency of 50 kHz 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.

**High-frequency Inverter with Variable Frequency**

The frequency changes according to the X-ray load conditions. The mA value setting can be increased or decreased with no increase in kV ripple. The rise and falling times of the X-ray tube voltage are very short enabling high-precision rapid control.

**Detailed Exposure Parameter Settings**

The exposure time, mA value, and mAs value can be set in steps of 12.5%, allowing exposure parameters to be set with greater precision.

**Depicted Image**

- **High Image Quality with Advanced High-frequency Inverter**
- **50 kHz**
- **High-quality Images**
- **Variable Frequency**
- **Short rising and falling time**

**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Radiographic Techniques</th>
<th>UD150B-40</th>
<th>UD150V-40</th>
<th>UD150L-40</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>General radiography</td>
<td>150kV 500mA</td>
<td>125kV 630mA</td>
<td>100kV 800mA</td>
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<tr>
<td></td>
<td>Bucky radiography</td>
<td>150kV 500mA</td>
<td>125kV 630mA</td>
<td>100kV 800mA</td>
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<tr>
<td></td>
<td>Auto-change radiography</td>
<td>150kV 500mA</td>
<td>125kV 630mA</td>
<td>100kV 800mA</td>
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<tr>
<td></td>
<td>Tomography</td>
<td>150kV 500mA</td>
<td>125kV 630mA</td>
<td>100kV 800mA</td>
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<td>Number of X-ray tubes connectable</td>
<td>2 tubes as standard</td>
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<td>Tube voltage</td>
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<td>400/76kV</td>
<td>400/76kV</td>
<td>400/76kV</td>
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<td>10.5/10.5mA</td>
<td>10.5/10.5mA</td>
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<tr>
<td>mA</td>
<td>12.5/800mA (50% lower limit for AEC radiography)</td>
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<td>12.5/800mA</td>
<td>12.5/800mA</td>
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<tr>
<td>kV</td>
<td>0.1/500msec</td>
<td>0.1/500msec</td>
<td>0.1/500msec</td>
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<td>X-ray load condition</td>
<td>All areas of X-ray load</td>
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<td>Color LCD touch-panel</td>
<td>Color LCD touch-panel</td>
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<td>Hybrid Diode and color LCD touch-panel</td>
<td>Hybrid Diode and color LCD touch-panel</td>
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<td>Self-diagnostic function</td>
<td>Indicated on the color LCD</td>
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</tbody>
</table>

**4 Field Photo-timer Pick-up SPT Photo-timer series**

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 being designed for the specific parts of the patient’s anatomy that are to be imaged.

**Dimensions**

- Control panel:
  - Unit: mm
  - 308 mm x 245 mm
- Control cabinet:
  - Unit: mm
  - 82 mm x 700 mm

**Optional accessories**

- Power supplier control (for direct use) and Direct photo pickup
- Starter
- Triple tube option
- Wire protecting tube
- Automatic power transformer
- Communications unit
- Voltage regulator

**Weight**

- Control panel: 2.5 kg
- Control cabinet: 250 kg (B-40), 250 kg (V-40), 240 kg (L-40)