Numerous system configurations easily accommodate a wide variety of examinations.

The specifications of the main system components, the FLEXAVISION R/F table, the high-voltage generator, and the X-ray tube, can be selected from a variety of different options. This flexibility in configuration makes the system suitable for a wide variety of examinations, ranging from gastrointestinal and other types of screening to urological and orthopedic examinations.
Flexibility

Thanks to a wide variety of RF table types, high-voltage generators, X-ray tubes, I.I. sizes and digital processing units, FLEXAVISION allows you to create an optimal system that accommodates both your patient throughput requirement and all your examination types. Even though the system is compact, its rapid movement and wide patient coverage allow for precise positioning in the area of interest. This ensures easy selection of the optimal system for both standard gastrointestinal, thoracic, and abdominal examinations, as well as specialized nonvascular IVR, urological and orthopedic examinations.

- Standard table
- Elevating table

FLEXAVISION HB package: Hybrid (SFD & Digital) system
FLEXAVISION SF package: Cassette (CR) SFD system
FLEXAVISION FD package: Full digital system

* Oblique projection unit (orthopedic, gastrointestinal)  
* Lateral cassette holder (general radiography)
* Compression band  
* Rolling step (screening)  
* Endoscope support (endoscopy)  
* X-ray tube swing-out unit (general radiography)
* Foot switch (interventional radiology, orthopedics, etc.)  
* Local console (interventional radiology, orthopedics, etc.)  
* DICOM software (FD, HB types)

A comprehensive range of options meet a wide variety of needs.

- Extensive Examination Coverage
- Provides full-body coverage for gastrointestinal, nonvascular IVR and urological examinations.

- Oblique Projection Unit
- Ensures suitability for general orthopedic and endoscopy examinations.

- Imaging Chain Extension
- Imaging chain extension is 1.5 m (standard) or 1.8/2.0 m (option).
  In combination with cassette radiography, this option provides thoracic radiography and swallowing function tests on wheelchair patients.

- X-ray Tube
  - 180° Swing Unit
  - 180-degree rotation of the X-ray tube/collimator easily and effectively accommodates chest examinations using a bucky stand.

- Urological Option
- Perform urological examinations in combination with cassette radiography.

- Auxiliary Tabletop
- Provides superb patient support during ERCP, lower extremity venography, or orthopedic radiography of the lower extremities.

- 50 kW  
- 80 kW

- X-ray high-voltage generator

- LL
  - 9 inch type
  - 12/9 inch type
  - 12/9/7.5/6 inch type*  
  (* HB, FD types)

- X-ray tube unit
  - 400 kHU, 300 kHU
  - 200 kHU

- Option
- Option
- Option
- Option
- Option
- Option
Patient Care

Patient care is the keyword when evaluating the design of the FLEXAVISION system. Enjoy an extensive range of functions designed to assist staff and patients alike. This includes table elevation to ease the strain of patient changeover, bedside switches for unit positioning while providing bedside care, digital radiography (HB, FD types) and spot filming (HB, SF types) to reduce patient restraint times during examinations.

X-ray dose during examinations are a major concern for both operators and patients. As a result, FLEXAVISION standard features include low-dose pulsed fluoroscopy (HB, FD types) and a beam hardening filter to reduce total X-ray dose.

Table Elevation

This function reduces strain during patient changeover and allows the technologist to easily and safely transfer patients on and off the table. The elevating tabletop also allows the technologist to select their most comfortable examination height.

Bedside Switches

Tabletop and imaging chain operation switches are provided on the tabletop to allow examinations and positioning while caring for the patient.

Full-Body Stroke

Generous 133 cm (17"-14") cassette examination range accommodates all examination types and minimizes need for patient movement.

Cassette Spot Filming

One-touch-loading cassette ensures well-timed radiography (HB, SF types).

Digital Image Display

Acquired images appear instantly on the monitors helping to reduce patient restraint time (HB, FD types).

Cassette Radiography

Spot filming function uses cassettes to extend the viewing field.

Pulsed Fluoroscopy Function

3.75 fps
7.5 fps
15 fps

Reduced X-ray Exposure

Standard equipment pulsed fluoroscopy (HB, FD types) and beam hardening filter reduce exposure to unnecessary X-rays.
FLEXAVISION provides outstanding image quality. The high-performance, 1-megapixel CCD camera (HB, FD types) allows 1024 x 1024 matrix and 12-bit (4096 gradation) imaging. This ensures image quality of high definition and high-density resolution. Shimadzu's digital processing is applied to suppress halation and provide clear images with superb contrast for real-time image review. Multi-cassette spot film device (HB, SF types) provides similar digital image capture, enabling efficient image review during urological and abdominal examinations that require a wide viewing field.

**Image Quality**

- **High-Definition Digital**
  - 1024 x 1024 matrix
  - 12-bit (4096 gradations)

- **DSA Capability**
  - High-speed, high-definition real-time DSA is available at 7.5 fps on a 1024 x 1024 matrix.

- **Digital Serial Radiography**
  - Serial radiography at 3 fps is effective for esophageal examinations.
  - (7.5 fps serial: option)

- **Workflow**
  - Controls for FLEXAVISION R/F table operation and the high-voltage generator are concentrated in a single operation console to ensure a smooth and accurate workflow for all types of examinations. Systems incorporating a digital image processor (HB, FD types) use the highly flexible Windows® operating system to provide real-time image viewing via simple mouse or keyboard operation. Optional DICOM-network compatibility simplifies printing and image transfer to a server, ensuring an overall high-quality workflow.

- **R/F table operations and high-voltage generator controls are concentrated in an easy-to-use layout.**

- **Use the tabletop-type console to operate the R/F table and high-voltage generator from a standard work desk.**

- **Simple Windows®-based mouse and keyboard operation simplifies system operation and image review (HB, FD types).**

- **Optional DICOM-network compatibility reduces examination waiting time and enhances work efficiency.**

- **FLEXAVISION can output images in JPEG or BMP file format.**

- **Print Server**

- **DVD / CDR**

- **Image Server Worklist Server**

- **DICOM Storage**

- **DICOM MWM**

- **DICOM Print**

- **DICOM Media Storage**

- **FLEXAVISION**
Since Shimadzu developed the world's first remote X-ray R/F system in 1961, the company has remained at the forefront of R/F and other X-ray system technologies. We have established an outstanding international reputation and based on this extensive expertise, FLEXAVISION has been designed to deliver the high level of performance demanded by today's clinical environment. As an example, to produce uniformly high image quality, everything from the R/F table to the digital systems, including the high-voltage generator, X-ray tube and image intensifiers, were developed and manufactured by Shimadzu to create a true integrated system.

In addition, Shimadzu service centers around the world respond rapidly to customer requests in order to constantly maintain high levels of quality.

**Reliability**

**Specification**

<table>
<thead>
<tr>
<th>Feature</th>
<th>SF package</th>
<th>HB package</th>
<th>FD package</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generator (selectable)</td>
<td>50 kW, 80 kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>X-ray tube (selectable)</td>
<td>200 kHU, 300 kHU, or 400 kHU</td>
<td>9 inch, 10 inch (2 fields), 9 inch, 12 inch (2 fields), 10 inch (4 fields)</td>
<td>9 inch, 12 inch (2 fields), 10 inch (4 fields)</td>
</tr>
<tr>
<td>Table tilt</td>
<td>+/-90 to -30 degrees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table elevation</td>
<td>69 cm to 95 cm (factory installed option)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient coverage</td>
<td>133 cm (imaging unit travel 92 cm + 43 cm C-Arm/Pan) (option: table top extension for flexible positioning)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FFD extension</td>
<td>1.5 m (standard) or 1.8 m/2.0 m² (factory installed option)</td>
<td>* Not available with oblique projection (1.8 m/2.0 m² FFD extension or oblique)</td>
<td></td>
</tr>
<tr>
<td>Oblique projection</td>
<td>+/- 30 degrees (factory installed option)</td>
<td>* Not available with oblique projection (1.8 m/2.0 m² FFD extension or oblique)</td>
<td></td>
</tr>
<tr>
<td>TV camera</td>
<td>400,000 pixel CCD camera</td>
<td>1 million pixel CCD camera</td>
<td></td>
</tr>
<tr>
<td>Monitor (selectable)</td>
<td>14&quot; CRT, 14&quot; LCD</td>
<td>15&quot; LCD, 18&quot; LCD</td>
<td></td>
</tr>
<tr>
<td>SPFD / Cassette tray</td>
<td>Multi-size Spot Film Device</td>
<td>Cassette Tray</td>
<td></td>
</tr>
<tr>
<td>Digital processor</td>
<td>N.A.</td>
<td>1024 matrix, 12 bit, 3 fps (7.5 fps, optional)</td>
<td></td>
</tr>
<tr>
<td>Pulsed fluoroscopy</td>
<td>N.A.</td>
<td>Max 15 fps</td>
<td></td>
</tr>
<tr>
<td>DICOM compatibility</td>
<td>N.A.</td>
<td>DICOM Print (standard), DICOM Storage (option), DICOM MFM (option)</td>
<td></td>
</tr>
<tr>
<td>Media storage</td>
<td>N.A.</td>
<td>CD/RW/DVD-R/DVD-ROM</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

Unit: mm