Main Features

• High-resolution HDTV imaging capability ensures accurate rendition of fine capillaries and subtle mucosal structures.
• Close Focus for detailed observation without electronic magnification.
• Narrow Band Imaging combined with HDTV and Close Focus enhance observation of the mucosa.
• Slim distal end and insertion tube diameters of 9.8 mm ensure excellent insertion capability.
• A wide range of instruments can be used with the generous 2.8 mm diameter channel.
• 4-way angulation (210˚ up, 90˚ down, and 100˚ right/left) enables comprehensive examination of the upper gastrointestinal tract.
• Extra-wide 140˚ field of view enables accurate observation of a wide area.
• Ergonomically designed grip enhances scope maneuverability while easy-to-access knobs and user-selectable switches improve operability.
• Fully compatible with the CV-180.

Scope ID function stores individual scope information in the built-in memory chip and displays it on the monitor, facilitating endoscopy suite management and making the scope ready for next-generation system expansion.

Specifications

<table>
<thead>
<tr>
<th>Optical System</th>
<th>Distal End</th>
<th>Insertion Tube</th>
<th>Bending Section</th>
<th>Working Length</th>
<th>Total Length</th>
<th>Instrument Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>140˚ Forward viewing</td>
<td>2 to 100 mm</td>
<td>9.8 mm</td>
<td>9.8 mm</td>
<td>Up 210˚, Down 90˚, Right 100˚, Left 100˚</td>
<td>1030 mm</td>
</tr>
<tr>
<td></td>
<td>140˚ Field of view</td>
<td>2 mm from the distal end</td>
<td>2 mm</td>
<td></td>
<td></td>
<td>1345 mm</td>
</tr>
</tbody>
</table>

Super HDTV imaging, high-power Close Focus, and Narrow Band Imaging redefine upper gastrointestinal endoscopy.
HDTV and Close Focus combine with Narrow Band Imaging to achieve a new standard in observation for upper gastrointestinal endoscopy

Simply put, the GIF-H180 delivers the best possible HDTV image quality. With resolution that far exceeds conventional video and the added feature of Narrow Band Imaging the GIF-180 improves diagnostic imaging, enabling you to confidently observe fine capillaries and delicate mucosal structures. With an improved Close Focus optical system, the need for electronic magnification is eliminated. And with a slim outer diameter, this scope maintains the handling characteristics you are currently used to with standard endoscopes.

With a built-in HDTV-compatible CCD, the GIF-H180 can be combined with the CV-180 processor to display clear, true-to-life images with precise details and accurate color that will enhance your diagnostic accuracy. With HDTV, even the tiniest details of the upper gastrointestinal tract can be clearly visualized. And, by using the dedicated OEV191H LCD monitor, you can optimize image quality and keep eye strain to a minimum.

Close Focus for detailed observation

Now you can obtain an enlarged, close-up image simply by moving the scope tip close to the site (up to 2mm). The combination of the HDTV-compatible CCD’s enhanced imaging with the optical system’s extended depth of field allows focus to remain clear and sharp, so you’ll be able to comfortably examine the site. Since no magnification is used, details are clearer and more accurate.

Narrow Band Imaging for detailed mucosal observation

In the upper gastrointestinal tract, Narrow Band Imaging (or NBI) helps identify areas of intestinal metaplasia within columnar mucosa in the distal esophagus. It can also identify specific patterns associated with Barrett’s esophagus, which may represent lesions of high-grade dysplasia. The combination of NBI and HDTV image quality not only helps improve detection of lesions in the upper gastrointestinal tract, it also facilitates identification of suspicious areas. This might make possible target biopsies in patients with Barrett’s esophagus.

HDTV — or high-definition television — offers image quality comparable to film and all the convenience and flexibility of conventional video. With 1,080 effective scanning lines of picture information, compared to 480 for NTSC and 576 for PAL, HDTV delivers picture quality that is more than twice as good as conventional TV. Increased pixel density produces a smooth clear picture whose remarkable detail, and natural colors are unmarred by the pixelation seen in lower-resolution images. This superb quality and realism makes HDTV ideal for demanding imaging applications such as endoscopy.

What is HDTV?

- HDTV — or high-definition television — offers image quality comparable to film and all the convenience and flexibility of conventional video. With 1,080 effective scanning lines of picture information, compared to 480 for NTSC and 576 for PAL, HDTV delivers picture quality that is more than twice as good as conventional TV. Increased pixel density produces a smooth clear picture whose remarkable detail, and natural colors are unmarred by the pixelation seen in lower-resolution images. This superb quality and realism makes HDTV ideal for demanding imaging applications such as endoscopy.

Note: The images shown above are simulated pictures.

- HDTV — or high-definition television — offers image quality comparable to film and all the convenience and flexibility of conventional video. With 1,080 effective scanning lines of picture information, compared to 480 for NTSC and 576 for PAL, HDTV delivers picture quality that is more than twice as good as conventional TV. Increased pixel density produces a smooth clear picture whose remarkable detail, and natural colors are unmarred by the pixelation seen in lower-resolution images. This superb quality and realism makes HDTV ideal for demanding imaging applications such as endoscopy.

Note: The images shown above are simulated pictures.