

Endoscopes

OPERATION MANUAL

Upper and Lower Gastrointestinal Endoscopes

EG-720R

EC-720R/M

EC-720R/I

EC-720R/L

This Operation Manual provides details on how to prepare and operate the endoscope and describes cautions to be observed. Please read this manual thoroughly before operating the endoscope. After reading this manual, store it nearby the endoscope so that you can review it whenever necessary.

Introduction

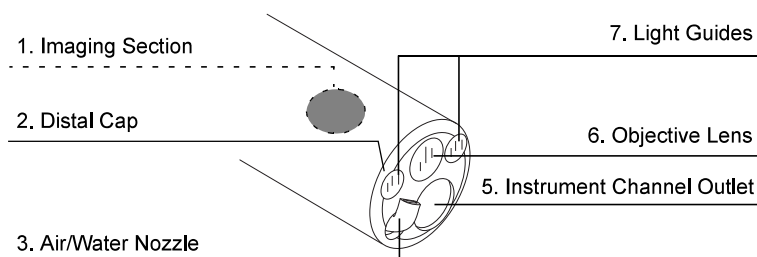
- 1 Precautions
- 2 Product Overview
- 3 Workflow
- 4 Preparation and Inspection
- 5 How to Use
- 6 Troubleshooting
- 7 Service

Appendix

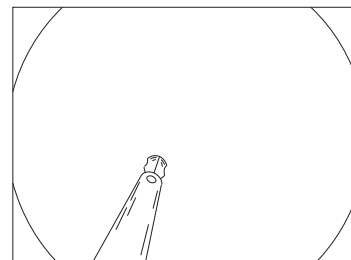


2.3 Nomenclature and Functions of Distal End of Endoscope

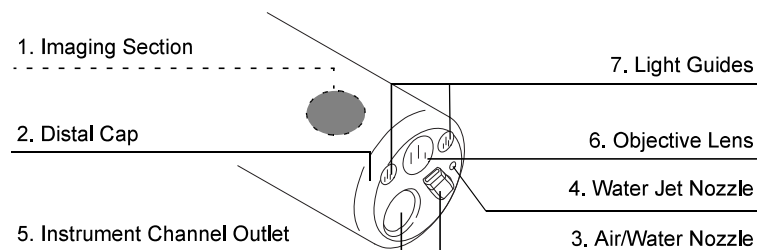
<EG-720R>



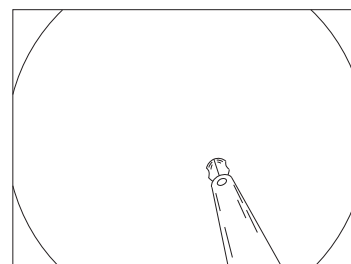
<Direction of Forceps>



<EC-720R/M, EC-720R/I, EC-720R/L>



<Direction of Forceps>



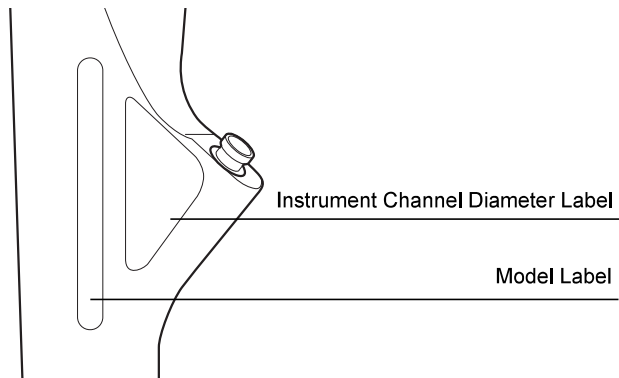
No.	Name	Function
1	Imaging Section	This section receives an image focused on its surface by the distal objective lens. This sensor is actually located within the distal portion of the endoscope in the illustrated position.
2	Distal Cap	This cap fixes the parts to the distal end of endoscope.
3	Air/Water Nozzle	This nozzle directs air or water onto the objective lens with the air/water valve operation.
4	Water Jet Nozzle	This mechanism is only for the endoscope with the water jet function. This nozzle delivers a forward stream of water when water is injected through the water jet inlet.
5	Instrument Channel Outlet	Endotherapy devices exit from this opening when inserted from the instrument channel inlet. During operation of the suction valve, this opening serves as an entrance for suctioning of fluids into the instrument/suction channel.
6	Objective Lens	This lens focuses an image onto the imaging section which in turn is displayed on the monitor.
7	Light Guides	The light from the light guide cover glass is emitted from these windows.

2.4 Location of Each Label

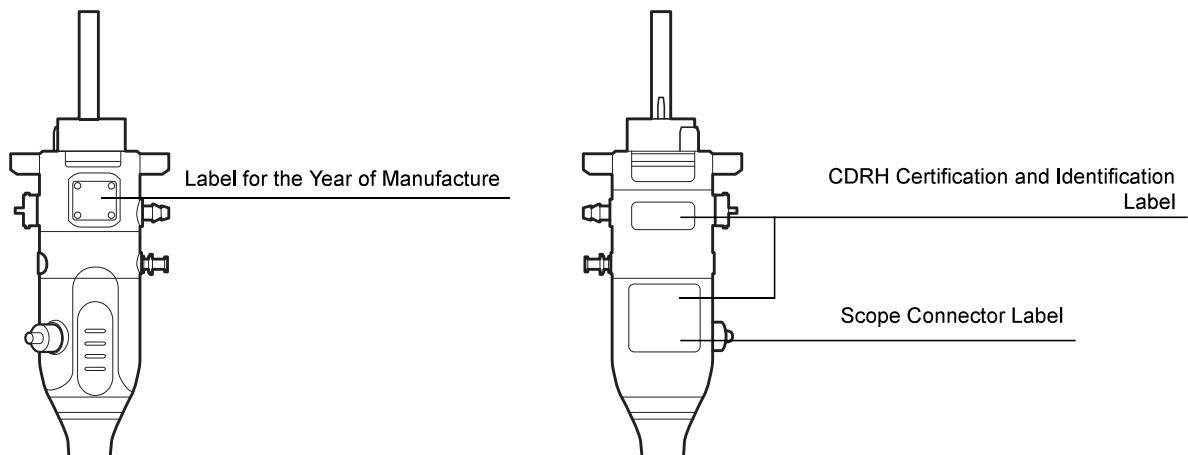
The positions where the labels are affixed on this product are shown below.

2.4.1 Location of Labels

<Control Portion>



<Scope Connector>



2.5 System Configuration

This product is used in combination with related equipment. The recommended combination of related equipment that can be used with this product is listed below. Related equipment is optional.

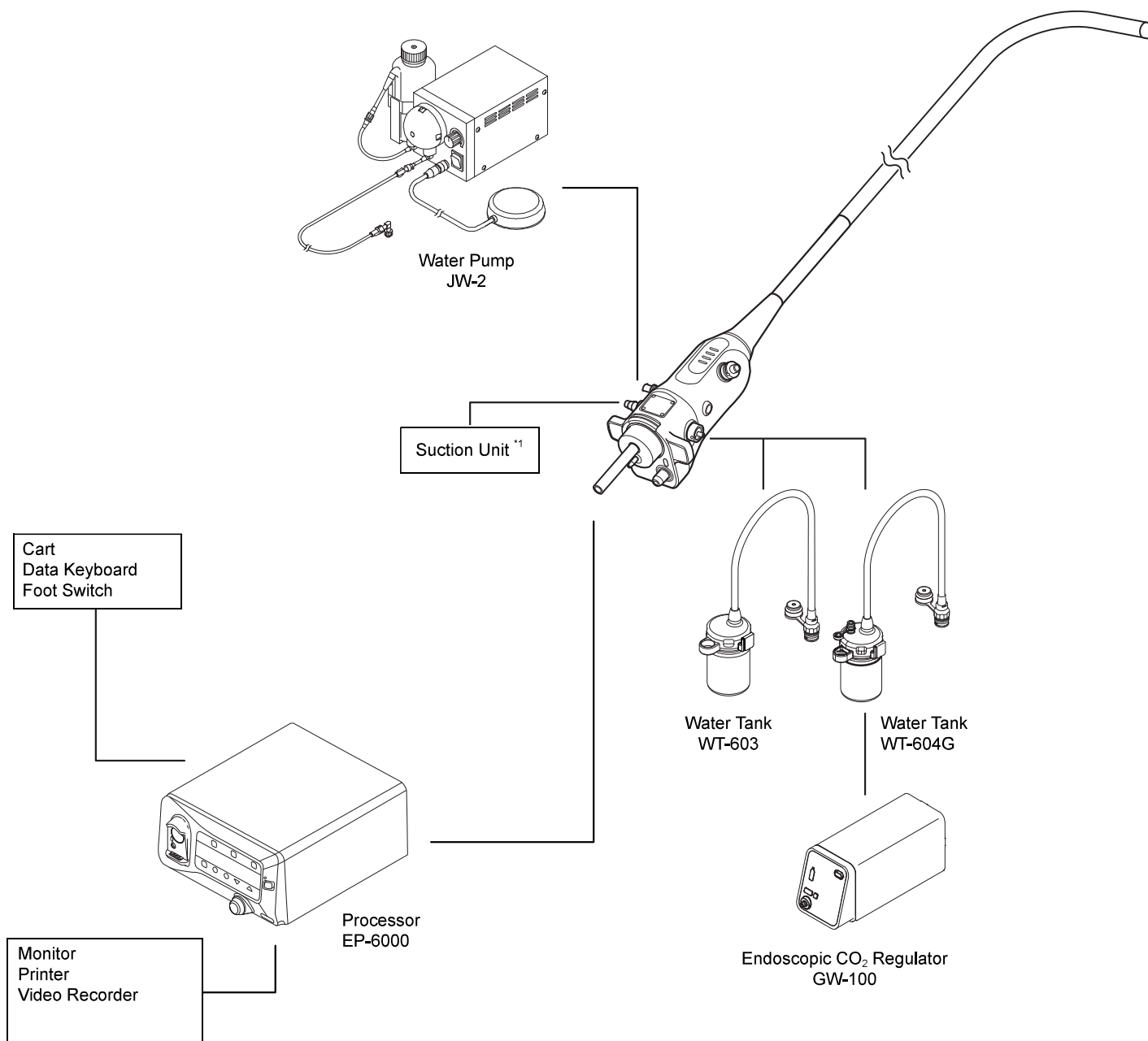
WARNING

- Use this product only in combination with related equipment described in this manual. Otherwise, it is unable to ensure its functionality, and may cause severe harm to patient or end-users.

CAUTION

- Use this product only in combination with related equipment described in this manual. Otherwise, it creates a risk of equipment malfunction.

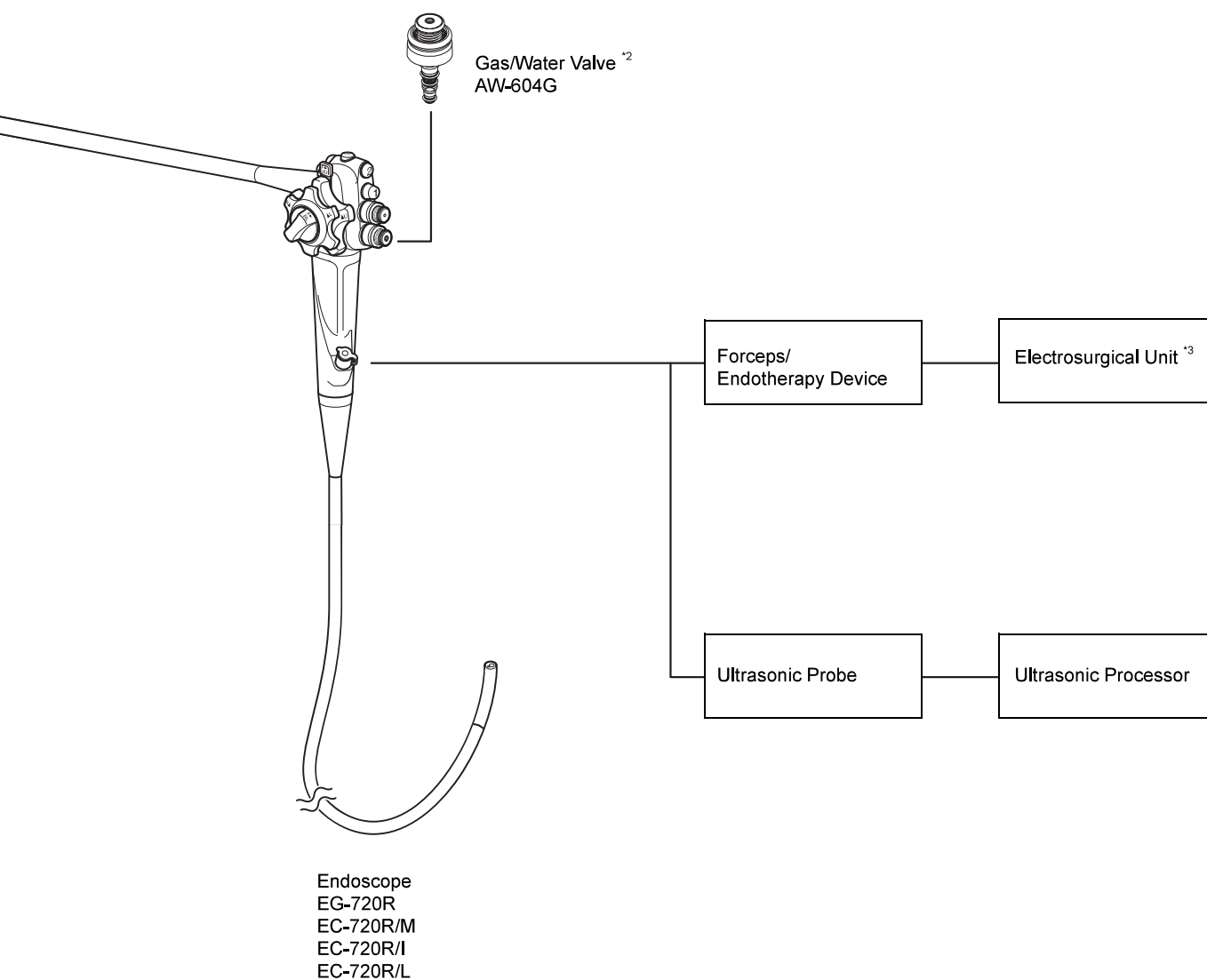
2.5.1 System Configuration (Combination with EP-6000)



*1 Use a suction unit which complies with EN 60601-1 (IEC 60601-1) and can set suction pressure to 40 to 53 kPa.

Note

- In addition to the related equipment described here, products that can be used in combination with this product may be added. In addition, the related equipment described here may have already been discontinued or not marketed depending on the country or region. For details on the devices used in combination with this product, contact your local FUJIFILM dealer.



*2 Used in combination with the endoscopic CO₂ regulator GW-100.

*3 For details, refer to the manual of the electrosurgical unit.

◆ Specifications

<Upper Gastrointestinal Endoscope>

	EG-720R
Optical system:	
Viewing direction	0° (Forward)
Field of view	140°
Observation range (mm)	2 to 100
Method of illumination	Light guide method
Image size	Super image
Distal end diameter (mm)	9.2
Insertion tube diameter (mm)	9.3
Maximum diameter of insertion portion (mm)	11.4
Minimum diameter of instrument channel (mm) ^{*1}	2.8
Bending capability:	
Up/Down	210°/90°
Left/Right	100°/100°
Working length (mm) ^{*2}	1100
Total length (mm)	1400
Insertion route	Peroral
Power-reception frequency	110 to 205 kHz
Laser	
Class	Class 1 laser product ^{*3 *4}
Medium	Semiconductor laser
Wavelength (nm)	1310
Maximum output (mW)	7
Maximum output under Fault condition (mW)	12.3
Beam divergence (parallel)	11° (Type)
Beam divergence (perpendicular)	11° (Type)
LED class	Class 1 LED product ^{*3 *5}

*1 Channel size should not be used as the sole consideration for compatibility of an accessory.

*2 Use an endotherapy device with working length of 1600 mm or longer.

*3 This product conforms to IEC 60825-1:1993+A1:1997+A2:2001 and IEC 60825-1:2007.

*4 The transmission window of the scope connector falls under the category of Class 1 laser product.

➔ “2.2 Nomenclature and Functions of Endoscope - 7. Transmission Window”