

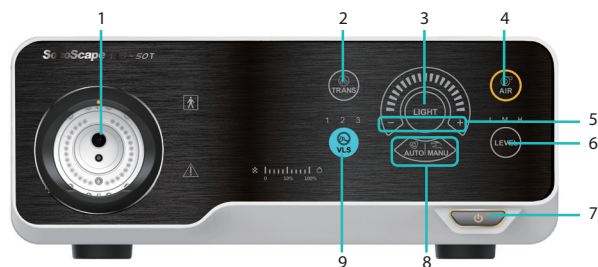
1. Introduction

Front Panel of Image Processor (HD-550 is taken as an example.)



- | | |
|-------------------------|-------------------------------------|
| 1 Connector Port | 7 On/Standby Button (⏻) |
| 2 Restore Button | 8 Color Enhancement button |
| 3 Custom Buttons | 9 Structure/Edge Enhancement Button |
| 4 White Balance Button | 10 Zooming In/Out Button |
| 5 USB Port | 11 Photometry Mode Button |
| 6 Stop Button (for USB) | |

Front Panel of Light Source (VLS-50T is taken as an example.)



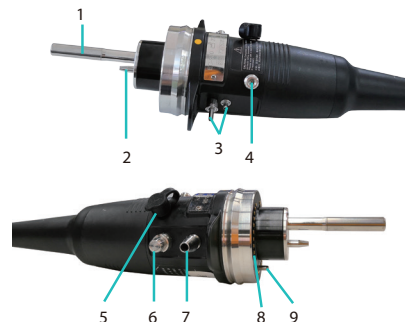
- | | |
|----------------------------|----------------------------------|
| 1 Endoscope Port | 6 Air Pressure Adjustment Button |
| 2 Transillumination Button | 7 On/Standby Button (⏻) |
| 3 Turning On/Off Button | 8 Brightness Adjustment Button |
| 4 Air-feeding Button | 9 Light Mode Button |
| 5 Light Intensity Button | |

NOTE:

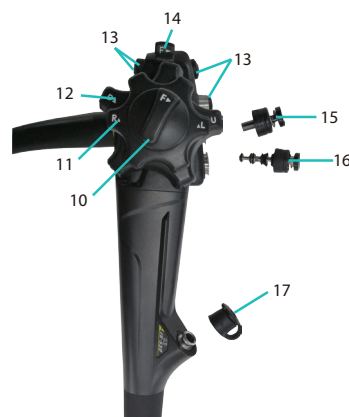
Light modes of the VLS-50T light source include white light mode (WL), spectral focused imaging mode (SFI) and versatile intelligent staining mode (VIST).

Endoscope (EC-550 is taken as an example.)

Connector Section

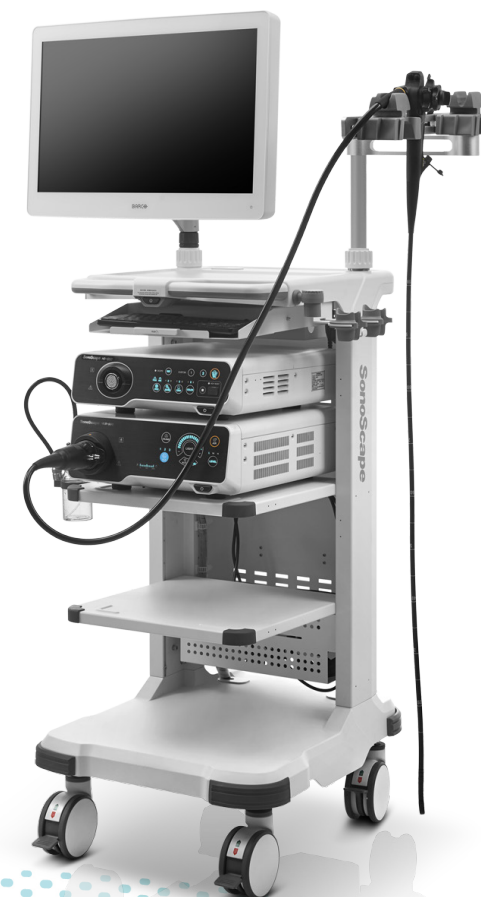


Control Section



- | | |
|---------------------------------------|---------------------------------------|
| 1 Light Guide | 10 Left/Right Angulation Lock |
| 2 Air Pipe | 11 Left/Right Angulation Control Knob |
| 3 Air/Water-feeding Ports | 12 Up/Down Angulation Control Knob |
| 4 Electrosurgical Equivalent Terminal | 13 Remote Buttons (customized) |
| 5 Auxiliary Water-feeding Port | 14 Up/Down Angulation Lock |
| 6 Leakage Detector Port | 15 Suction Valve |
| 7 Suction Port | 16 Air/Water Valve |
| 8 Electrical Contacts | 17 Biopsy Valve |
| 9 Optical Fiber Cable Connector | |

HD-550 Video Endoscope System Quick Start Guide



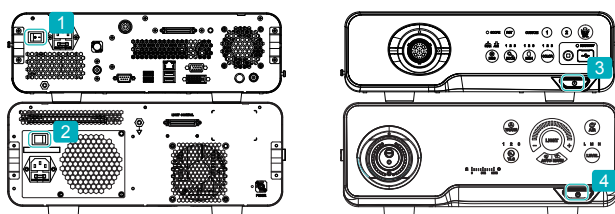
2. Operations



Operation Flowchart

Powering on Devices

1. Power on the monitor.
2. Follow the serial numbers as shown in the following figures to power on the image processor and light source.



Rear Panels

Front Panels

Logging in System

- Automatic login: Log in the system automatically.
- Account login: Press **Ctrl+D** on the keyboard to enter the doctor list screen and select a login account.

Connecting Endoscope

1. Insert the connector section of the endoscope into the endoscope port on the light source firmly.
2. Connect the suction pump, water bottle and auxiliary water-feeding tube to the endoscope.

Getting Started

1. Select work mode.
 - Auto loading: Log in the system and the work mode can be loaded automatically.
 - Manual loading: Press **CUSTOM 1/2** on the front panel of the image processor or press **F2** on the keyboard to select a work mode.

If necessary, press and hold **RST** on the front panel of the image processor to restore the work mode.

2. Enter patient information.
 - Enter during exam: Enter the patient information on the main screen.
 - Enter in advance: Press **F3** on the keyboard to enter the order List screen to enter patient information in advance.

Examining

1. Refer to the button/key descriptions as follows in the following table to perform the exam.

No.	Function	Image Processor	Light Source	Keyboard
1	Lamp On/Off	-	LIGHT	-
2	White balance adjustment	WHT BAL	-	F10
3	Transillumination mode	-	TRANS	-
4	Photometry mode	IRIS	-	-
5	Automatic gain control	-	-	Alt+F6
6	Color tone adjustment	-	-	F11
7	Image contrast	-	-	Alt+F4
8	Color enhancement	COLOR	-	Alt+F9
9	Structure/edge enhancement	ENH	-	F9
10	CHb pseudo-color image size adjustment	-	-	Alt+F8
11	Versatile intelligent staining mode	-	VLS	F5
12	Zooming in/out	ZOOM	-	Alt+F7
13	Full-screen display	-	-	F8
14	Brightness adjustment	-	AUTO/MANU	-
15	Light intensity adjustment	-	-/+	-
16	Air-feeding	-	AIR	-
17	Air pressure adjustment	-	L/M/H	-
18	Image freezing/unfreezing	-	-	F7
19	Image storage	-	-	F6
20	Video print	-	-	Alt+F10
21	Timer	-	-	Alt+F1
23	Patient list screen display	-	-	Alt+F3
24	Report edit screen display	-	-	F12
25	Video record/playback	-	-	• Rec/Play • Pause • Stop

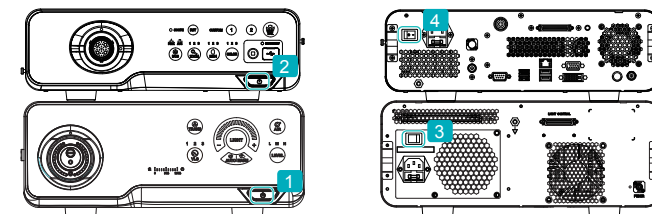
2. Export images or videos.
 - a. Insert the USB drive into the USB port on the image processor.
 - b. Press **Alt+F3 > F2** on the keyboard to enter the patient list screen.
 - c. Press **F6** on the keyboard to export the selected reports, images or videos.

Disconnecting Endoscope

1. Disconnect the suction pump, water bottle and auxiliary water-feeding tube from the endoscope.
2. Disconnect the endoscope from the light source.

Powering off Devices

1. Follow the serial numbers as shown in the following figures to power off the image processor and light source.



Front Panels

Rear Panels

To power off the image processor, press and hold the power button for 3 seconds until the shutdown progress bar on the monitor disappears.

2. Power off the monitor.

3. Maintenance and Test



Maintenance and Test Flowchart

Testing Leakage

Test by air or by water.

Testing Appearances

- Endoscope: distal end, bending section, insertion section, control section, universal cable and connector section.
- Video endoscope system: image processor, light source, monitor and trolley.

Testing Performances

Bending angles, instrument channel patency, air/water-feeding, suction, auxiliary water-feeding and remote button functions.

Testing Images

Image, light intensity and white balance.