

THANK YOU For Choosing this Product

We hope it will provide you with years of trouble-free service. Please look after your **Endo-one visionHD+**. If you encounter problems about using this device, please contact our dealer or support team.



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Full HD Video Recorder for Surgical Procedures

Record Videos and Play Back instantly

Full HD Video Recording,
upto 1080p@60fps

Take Snapshot
During Recording

Record 4K Video
in 1080p

SAFETY PRECAUTIONS

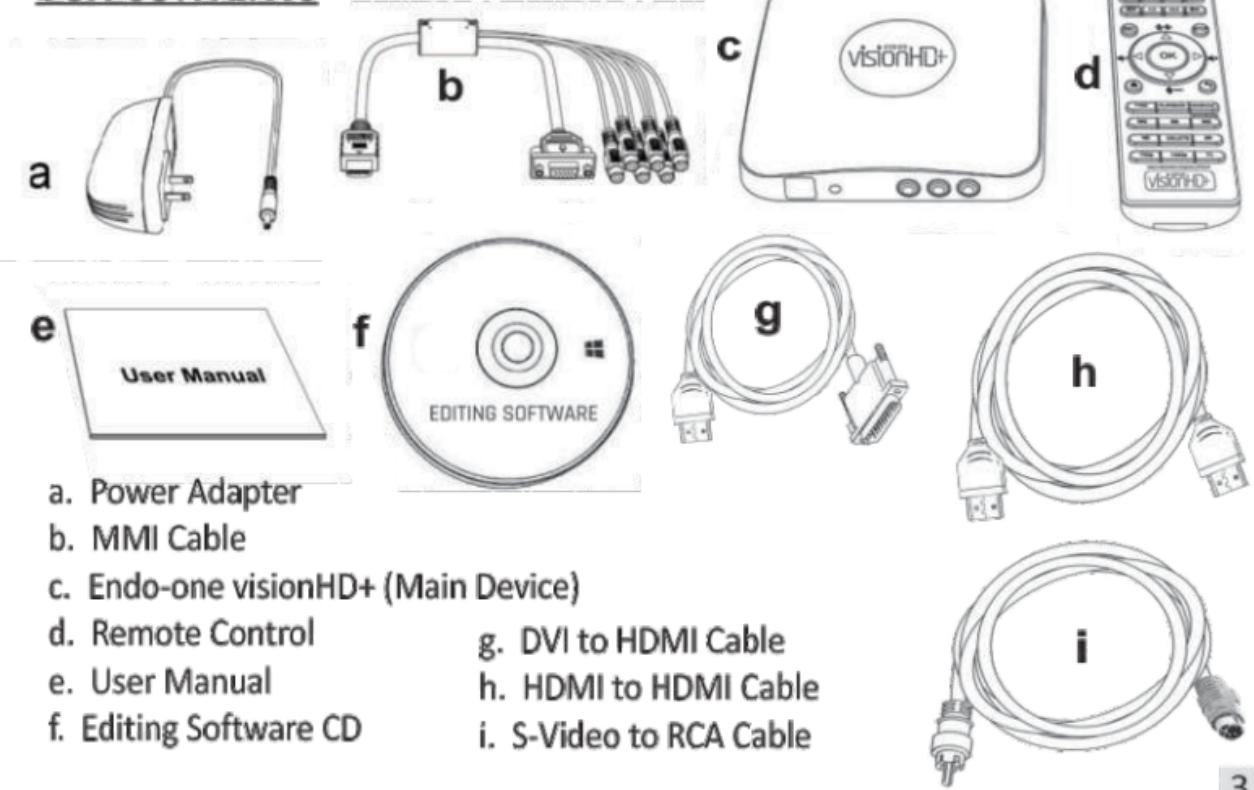
Before using **ENDO-ONE visionHD+**, please ensure that you read and understand the safety precautions below :

1. Do not attempt to open the case of **ENDO-ONE visionHD+** or modify it in any way, as this will void the warranty.
2. Keep **ENDO-ONE visionHD+** away from water & other liquids, as this may cause the unit to malfunction.
3. **ENDO-ONE visionHD+** may become warm during use, this does not indicate malfunction.
4. Do not place heavy objects on **ENDO-ONE visionHD+**, as this may cause the unit to overheat and malfunction.
5. If the exterior of **ENDO-ONE visionHD+** requires cleaning, wipe it with a soft dry cloth.
6. Do not dispose of the unit via conventional domestic waste.

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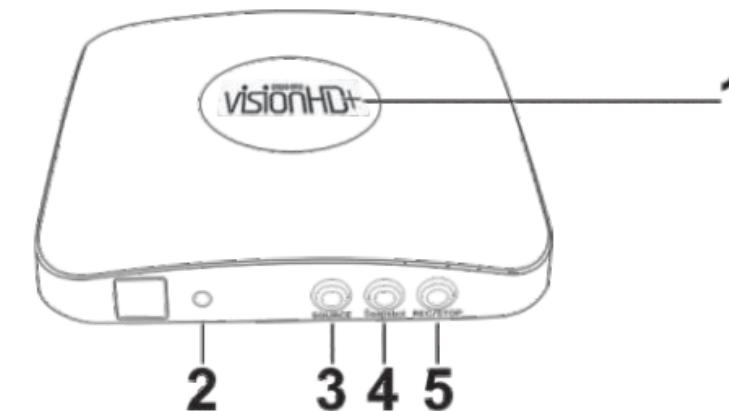
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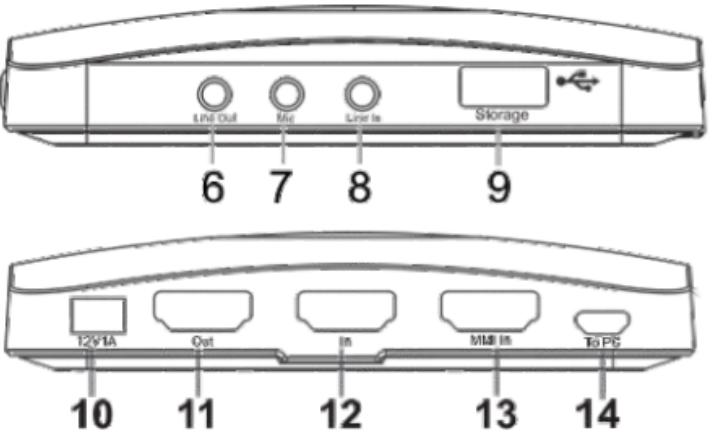
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PRODUCT DIAGRAM



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1. LED indicator light for recording. Blue means Endo-one visionHD+ is recording videos in 1080p, while Green means it is recording videos in 720p or others.
2. When this light is on, it means Endo-one visionHD+ is turned on.
3. SOURCE: Input signal button. HDMI, VGA, YPbPr and AV are available.
4. Snapshot : Snapshot during video recording.
5. REC/STOP: Press this button to start/stop recording.
press and hold the button for 5 seconds, The recorder will shut down.



6. Line Out: Audio output interface.

7. MIC: MIC input interface.

8. Line In : Audio input interface.

9. USB storage: The interface which the USB storage device is plugged into.

10. 12V/1.5A: Power adapter interface.

11. HDMI OUT: HDMI output interface.

12. HDMI IN: HDMI input interface.

13. MMI: VGA/AV/YpBPr cable interface.

14. USB to PC: Service Port.
(for future software update)



REC : Start recording.

STOP : Stop recording.

HDMI : Select HDMI as the input signal.

VGA : Select VGA as the input signal.

YPbPr : Select YPbPr as the input signal.

AV : Select AV as the input signal.

MUTE : Mute.

4:3 : Switch to the aspect ratio of 4:3.

16:9 : Switch to the aspect ratio of 16:9.

MI : Microphone mute.

i : Display information.

@ : Screenshot (Capture image during recording).

OK : OK button.

◀▶ : Adjust the volume of the source video.

▲▼ : Adjust the volume of MIC input.

MAIN : Show the main menu.

PREV : Back to the previous interface.

TIME : Set the system time by year, month, day, hour, minute and second.

PLAYBACK : Play back the contents in the USB storage device.

FORWARD : Set the Start Time and Stop Time manually during which videos will be recorded automatically.

BACK : Back to the previous page.

PAUSE : Play or stop playing.

NEXT : Go to the next page.

REWIND : Fast backward.

DELETE : Delete the recorded video.

FASTFORWARD : Fast forward.

720p : Set the output resolution to 720p.

1080p : Set the output resolution to 1080p.

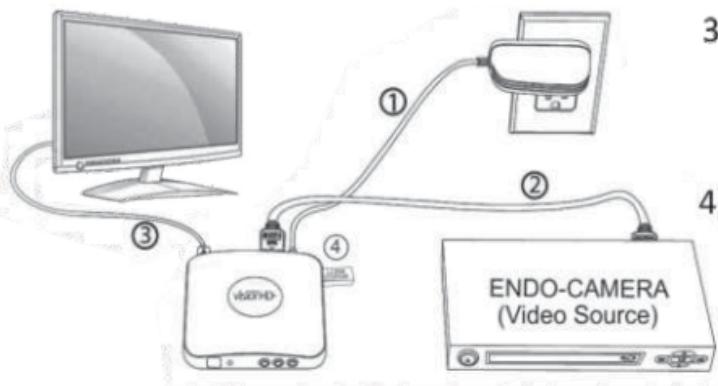
PC : Select the output resolution for PC, including 1024*768, 1280*800 and 1360*768.

HOW TO RECORD VIDEOS TO THE USB STORAGE DEVICE

1. Install

- 1) Plug the power adapter into the power socket and plug the other end into the 12V / 1.5A port of **Endo-one visionHD+**.
- 2) Connect the video source to HDMI IN on **Endo-one vision HD+** via a DVI to HDMI or HDMI to HDMI cable.

Note: If you want to connect devices via the VGA/AV/YPbPr cable, please connect the video source device to MMI port on **Endo-one vision HD+.**



- 3) Connect **Endo-one visionHD+** from HDMI OUT to LED TV / Monitor via a HDMI cable.
- 4) Plug the USB storage device (Pen Drive/Hard Disc) into the USB port of **Endo-one visionHD+.**

2. Setup by OSD (On Screen Display)

- (I) Press Home button ↑ on the remote control to browse the menu setting of **Endo-one vision HD+** which are : System Setting, Image Setting, Audio Setting & Schedule Setting.

A. Under the System Setting column, there are following aspects:

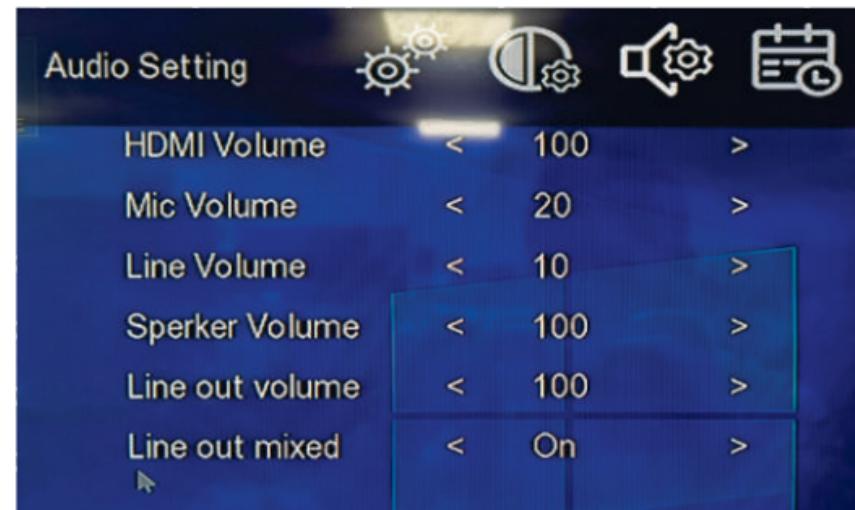
Show Time : On/off
Recording Resolution : 1920x1080 / 1280x720 / 1024x768 /
Bit Rate : Low/ Mid/ High
File Size : 4G/ 16G
Loop Recording : On/ Off
Show Recording : On/ Off
Time Watermark : On/ Off
System Time : 2021-09-27 09:12



- B. Under the Image Setting column, there are following aspects:
(as shown in below image)



- C. Under the Audio Setting column, there are following aspects:
(as shown in below image)



- D. Under the Schedule Setting column, there are following aspects:
(as shown in below image)
Set the start time & stop time during which videos will be recorded automatically



3. Record / Capture

- (I) After all devices are connected properly; **Endo-one vision HD+** will turn on when the power is connected.
- (II) Switch on the video source (**Endo Camera**).
- (III) Plug the USB storage (Pen drive/ External HDD) device to the USB port of **Endo-one vision HD+**.
- (IV) Press the REC/STOP button on the device or press the REC button on the remote control to start recording.
- (V) After recording for a period of time, press the REC/STOP button again on the device or press the STOP button on the remote control to stop recording.

NOTE: The recorded video will be split into several 4GB/ 16GB files.

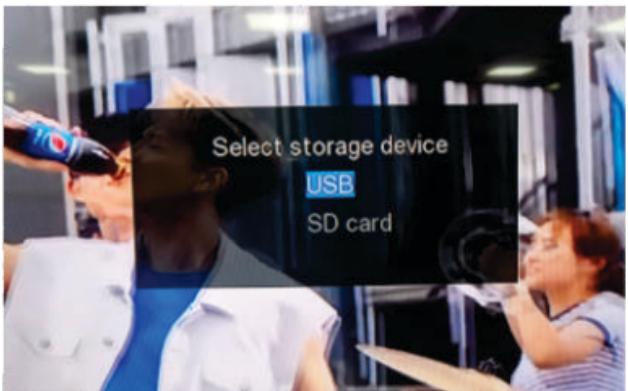
When HDD or USB storage is full, **Endo-one vision HD+** stops recording and LED will go off.

Endo-one vision HD+ saves files in MPEG4 format. The resolution can be set at either 720p or 1080p for capture.

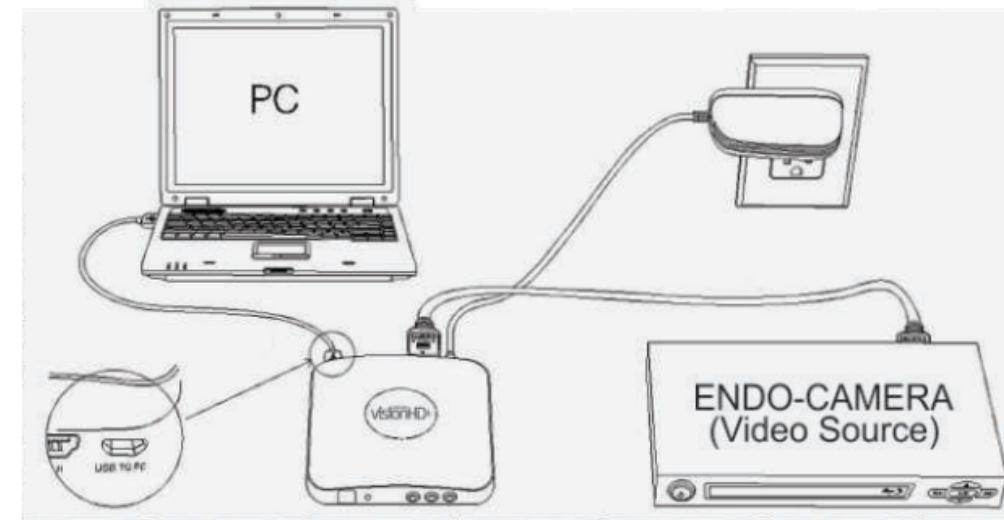
4. Playback

(1) After TV/ Monitor is connected properly; plug the USB storage device (Pen drive/ Extrenal HDD) into **Endo-one vision HD+** and press the **PLAYBACK** button on the remote control to enter the playback menu interface. Here select **USB** as storage device.

There are two categories, which are **Playback videos & Playback pictures**, select any one category. Here you will see the list of video file/image file. Select your desired video/ image file then press OK.



5. How to Record Videos to PC



System manager : PC function

1. Find Audio Streaming & Video Streaming in the system management.
2. Support : OBS/VLC/AMCAP etc. (Windows or Linux)

Video Resolution: Set the output video resolution. 1080p, 720p and 480p are available.

Video Bitrate: 6Mbps, 8Mbps, 10Mbps, 12Mbps, 15Mbps and 18Mbps are available.

Video Render: Define the video render. Video Mix Render9 and Internal YUV Render are available.

Hotkey for Recording: Set the hotkey for starting and stopping recording videos.

Language: Set the language to be displayed on the interface. English, Japanese, Simplified Chinese and Traditional Chinese are available.

Files Saved to Folder: Displays the saving path of recorded videos. You can change the saving path by clicking on the folder button.

Automatically generate the file name when recording starts: If this option is selected, the titles of recorded videos will be named automatically.

Set up maximum recording time: Set the maximum recording time. If the recording time exceeds the set value, Box will stop recording videos.

OK: Click to save the settings.

Supported Resolution

Input	4Kx2K (3840x2160 30P) 1920x1080 (50p), 1920x1080 (60p), 1920x1080 (24p), 1920x1080 (25p), 1920x1080 (30p), 1920x1080 (50i) 1920x1080 (60i), 1360x768 (60p) 1280x1024 (60p), 1280x720 (60p), 1280x768 (60p) 1280x800 (60p), 1024x768 (60p) 720x480 (60i), 720x480 (50i), 640x480 (60p) 720x480 (60p), 720x576 (50p)
Output	1920x1080 (60p)
Recording	1920x1080 (60p) 1280x720 (60p) 1024x768 (60p) 1280x1024 (60p) YUV420, YUV422, YUV444, RGB 444
PC Recording	1920x1080 (30p)

PRODUCT SPECIFICATIONS

Output Format	Mp4 (H.264)
Video standards (input)	NTSC, PAL, PAL-60
Supported recording formats	FAT32 NTFS exfat.MBR.GPT
Input signals	HDMI, VGA, YPbPr, AV Audio L/R,MIC,Line In/Out
Output signals	HDMI (pass-through), USB , Micro USB to PC
Bitrate	Max: 18Mbps
Recording capacity	Maximum 4GB/16GB per file
Maximum storage capacity	8TB
Power supply	DC 12V/1.5A
Weight	7.1 oz
Dimensions	4.3 x 4.3 x 0.6 inches
Supported file formats for playback	Image formats: JPG Audio formats: AAC Video formats: MP4 HDMI in Audio sampling rate : 48Khz/44,1Khz/32Khz

Connection Diagram

