

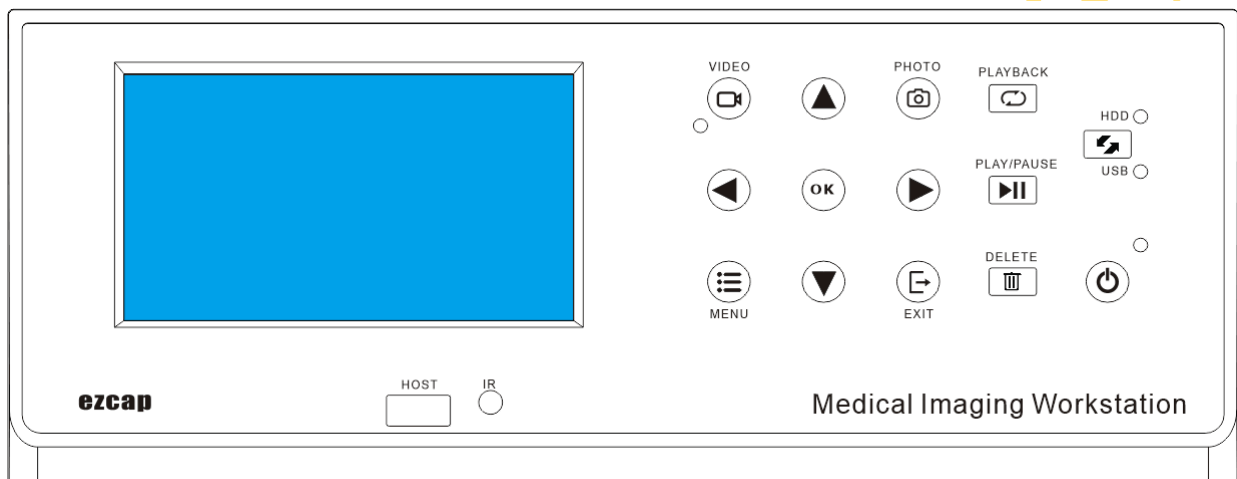
Medical Imaging Workstation

Operation Manual

Thanks for purchasing ezcap292 HD Medical Imaging Workstation. The operation manual guides you how to set up and operate.

Features/ports and buttons

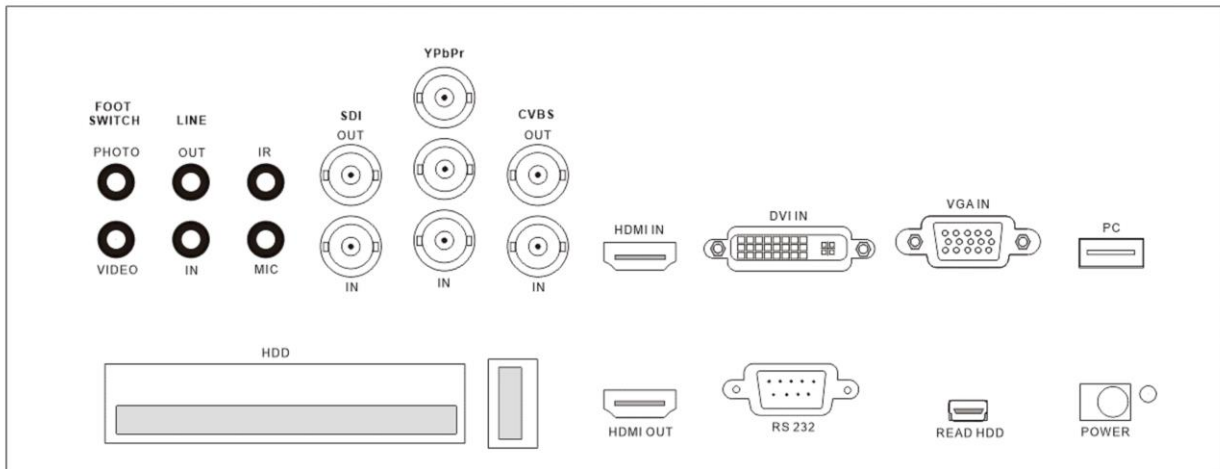
Front panel:



1. HOST – Plug a USB flash (or USB HDD) to save recorded video files or update firmware.
2. IR – Receive the command signal from remote control.
3. VIDEO – Press to start recording video, press again to stop recording.
4. PHOTO – Press to snapshot a photo. **(No effect during recording video)**
5. MENU – Press to enter the setup menu.
6. EXIT – Quit current function.
7. PLAYBACK – Press to switch from Preview record mode to Playback mode.
8. PLAY/PAUSE – Press to play video file in Playback mode, and press again to pause.
9. DELETE – Delete file in Playback mode.
10. HDD/USB Switch – Press to switch between HDD and USB HOST.
11. POWER – Power on when connect power supply, press to power off, and press again to power on again. **(Device will remember all the settings before power off when you power on again. No effect during recording.)**

12. OK/UP/DOWN/LEFT/RIGHT – For menu operation. UP/DOWN also for volume up and down, and LEFT/RIGHT also for microphone volume up and down.

Back plate:



13. FOOT SWITCH – Foot pedal ports, PHOTO for snapshot, and VIDEO for recording video.

14. LINE OUT/LINE IN – Audio line output / Audio line input.

15. IR – Connect IR receiver cable and fix the receiver at somewhere for easy use of remote control.

16. MIC – Microphone input.

17. SDI OUT / IN – SDI output / input.

18. YPbPr IN – Component video (YPbPr) input.

19. CVBS OUT / IN – CVBS output / input.

20. HDMI IN – HDMI input.

21. DVI IN – DVI input.

22. VGA IN – VGA input.

23. PC – Connect to USB 3.0 port of computer with USB cable, to capture video with medical software.

24. HDD – Connect 2.5 inch HDD.

25. HDMI OUT – HDMI output.

26. RS232 – Extension port.

27. READ HDD – Connect to computer to read the data in 2.5 inch HDD with mini USB cable.

* **Only in USB HOST mode. And cannot read HDD in HDD mode.**

28. POWER – Connect DC 12V3A power supply.

Remote Control:

1. POWER – Power on and off.

2. PHOTO - Press to snapshot a photo. **(No effect during recording video)**

3. HDMI/YPbPr/AV/SDI/DVI/VGA – Select video source.

4. USB – Select USB HOST to be storage.

5. HDD – Select HDD to be storage.

6. REC/STOP – Record video / Stop recording.

7. OK/UP/DOWN/LEFT/RIGHT –For menu operation.
UP/DOWN also for volume up and down, and LEFT/RIGHT also for microphone volume up and down.

8. MENU - Press to enter the setup menu.

9. EXIT - Quit current function.

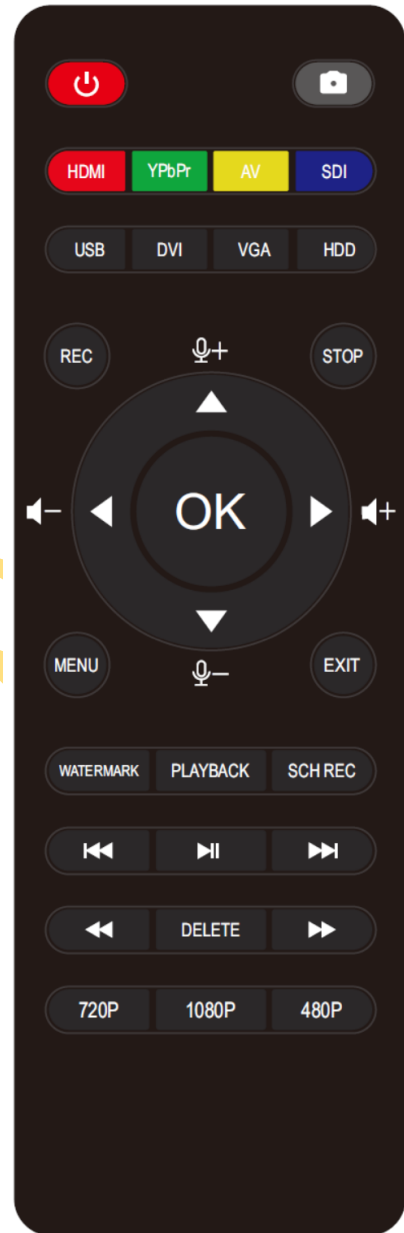
10. WATERMARK – Press to add time watermark with recorded file on top left, and press again to cancel watermark.

11. PLAYBACK - Press to switch from preview record mode to playback mode.

12. SCH REC – Set up schedule recording.

13. PLAY/PAUSE/LAST/NEXT/FAST BACKWARD/FAST FORWARD/DELETE – Function keys in Playback mode.
DELETE button can delete the selected file.

14. 720P/1080P/480P – Set up the resolution of video recording and HDMI bypass.



Connections

For connection, package only includes Power supply, Remote control, IR receiver cable, USB 3.0 cable, Mini USB cable. Please prepare yourself for other cables and accessories.

1, Connect DC12V power supply to POWER port of back plate, the green LED next to POWER port turns on, and the green LED next to POWER button of front panel turns on too.

2, Connect video source, and you have following selections: CVBS, YPbPr, SDI, HDMI, DVI or

VGA.

Please connect one of them only at the same time, and don't connect them together. The video source that has been connected first is effect if you connect two kinds of video sources or above at the same time. The device has the memory function, it will choose the video source that has been selected before device powered off. If you do not connect this video source, device will search other connected video sources. You also can select the video source by remote control.

3, Connect audio source, and you have following selections: audio line input, Microphone input.

4, Connect video output to display, and you have following selections: CVBS output, SDI output, HDMI output.

It's not necessary because device includes screen.

HDMI output is effect for all the video sources input, but CVBS output is effect for CVBS input only, and SDI output is effect for SDI input only.

5, Connect LINE OUT to speaker or headset.

Please connect this if you need to hear sound. And don't need connect it if video source is HDMI input or SDI input, and they include sound, and connect display with speaker.

6, Connect storage device, and you can choose USB flash drive or USB HDD to connect USB HOST port, or choose 2.5 inch HDD to connect HDD port. Please press USB/HDD switch to choose the storage mode, and the LED next to the mode will turn on.

Device supports NTFS, FAT and FAT32 format, and doesn't support exFAT format.

7, Connect foot pedal to FOOT SWITCH port. PHOTO port for snapshot photo, and VIDEO port for start/stop recording video.

8, Connect IR receiver cable to IR port of back plate, and fix IR receiver at somewhere. It's not necessary if you don't need.

9, Connect USB 3.0 cable to PC port of back plate and free USB 3.0 port of your computer. It's for capturing video with software on your computer. Ezcap292 Medical Imaging Workstation supports UVC system, and work with most third video capture software well.

Record

Standalone mode - save video and photo in USB flash drive, USB HDD or 2.5 inch HDD directly

After connection done as above, screen should show the input video, and you also can get sound if you connect video output to TV or monitor. Please make sure the storage you select has been connected well, and LED next to the storage should turn on. ezcap292 Medical Imaging Workstation is ready now.

To record video is very simple --- press the VIDEO button (or REC on remote control), then you will see the red LED next to VIDEO button turns on. Press VIDEO button again (or STOP key on remote control) to stop recording, the LED turns flashes few seconds then turns off. Press PHOTO button (or PHOTO key on remote control), then you will see the red LED next to

VIDEO button turn on few seconds then turn off, it means device snapshot a photo and save in storage already. **It only works when NOT recording.**

Press UP/DOWN button to adjust the audio volume, and press LEFT/RIGHT button to adjust the microphone volume.

Press 720P/1080P/480P keys of remote control to select recording resolution and video output resolution.

Press WATERMARK key of remote control to add time watermark on recording file. Press again to cancel time watermark.

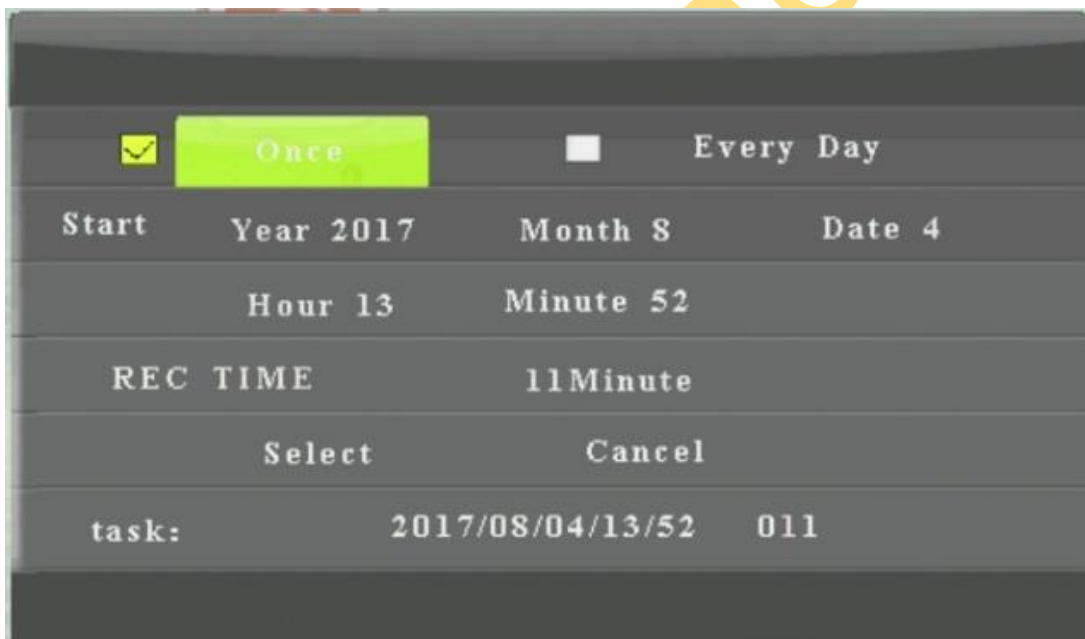
There are several reasons for no actions when press VIDEO button, you may need check:

- 1, The input video source disconnected.
- 2, The storage is out of memory.
- 3, The format for storage is not suitable, e.g. exFAT. ezcap292 support FAT, FAT32, and NTFS.
- 4, The storage is not connected well.
- 5, The storage is not ready, normally, it will take 4~8 seconds after plug it on.

Schedule recording:

Please set the SYSTEM TIME to the right local time before you set your schedule recording.

Press SCH REC of remote control, set the schedule time and others first, then click Select icon to display the task detail in task subject. Device will start and stop recording following your settings automatically.



Set the recording video quality & split:

Press MENU button (or MENU key on remote control), enter to following menu.

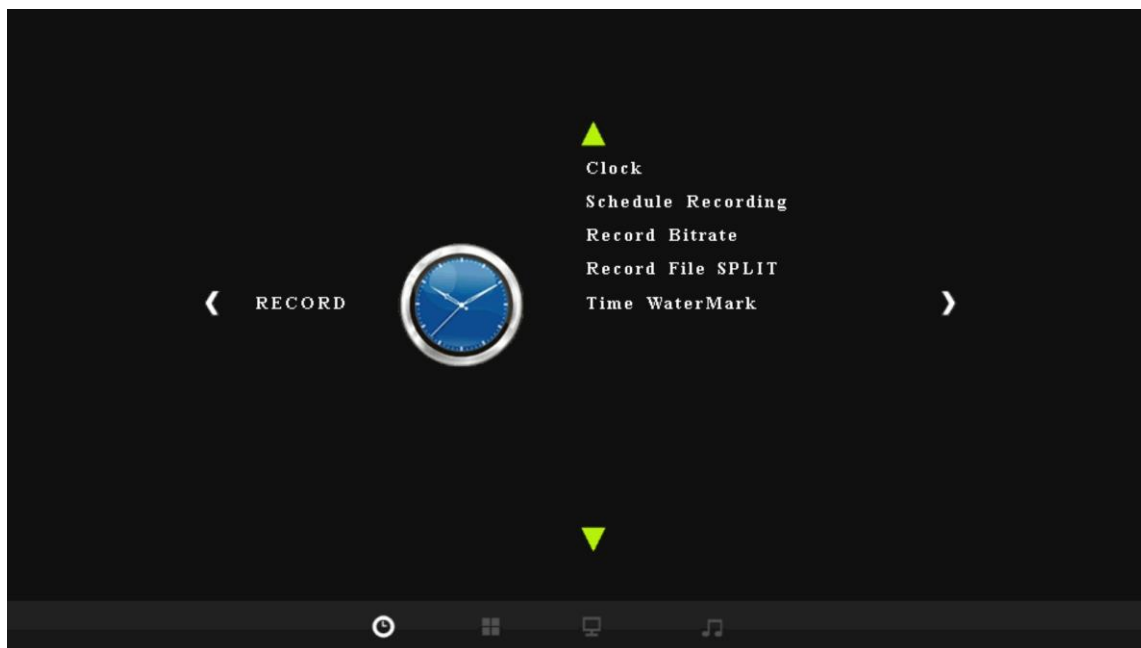
Clock: Set the time of system

Schedule Recording: Set the schedule record (same function as above)

Record Bitrate: Set recording video quality, set bit rate to High-16Mbps, Middle-10Mbps or Low-4Mbps.

Record File: Set record file to SPLIT or NO_SPLIT(NTFS). SPLIT means will cut the record file to 1.95GB each both in FAT and NTFS storage. NO_SPLIT(NTFS) means will save in one whole file in NTFS storage, but cut the record file to 1.95GB each in FAT storage.

Time WaterMark: Set time watermark with recorded file (same function as above)



please do not take the storage off when the LED is flashing. The recording will automatically stop if the USB flash out of space.

Sometimes you may find that some recorded video with problems, like: skip. It may because you don't click "safety remove" the device when disconnect from computer. You can try to format it to FAT32 if that problem keeps happen.

Video capture card mode – capture video with software on your computer

ezcap292 Medical Imaging Workstation also can work with a video capture card. It is USB 3.0 interface, and supports UVC system, can work with most of video capture and broadcast software well. You just connect USB 3.0 cable with PC port of back plate and free USB 3.0 port of computer, and run the application software, then choose capture device to "ezcap Medical HD" .

If video source includes audio, and get the bad audio quality, please set up the sample rate of recording device to 48KHz.

Connect device to computer, and right click **Speaker** icon in the bottom right corner of your computer screen, choose **Recording devices**. Double click **ezcap Medical HD**, at **Advanced**, choose the **sample rate** to **2 channel 16bit, 48000 Hz (DVD Quality)**.

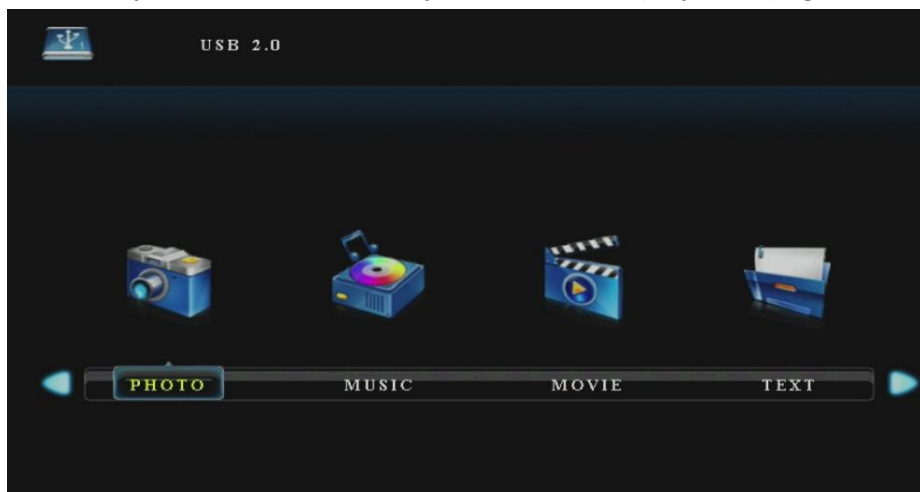
Note: Most of all, you will get nice sound after you finish above settings. If you still get bad audio, it means the audio sample rate of your video source is 44.1KHz or 32KHz, please set here to 44.1 or 32 to make the sound without noise.

ezcap292 Medical Imaging Workstation does not only support Windows, but also supports Mac OS X and Linux, you just set the video capture device to "ezcap Medical HD" .

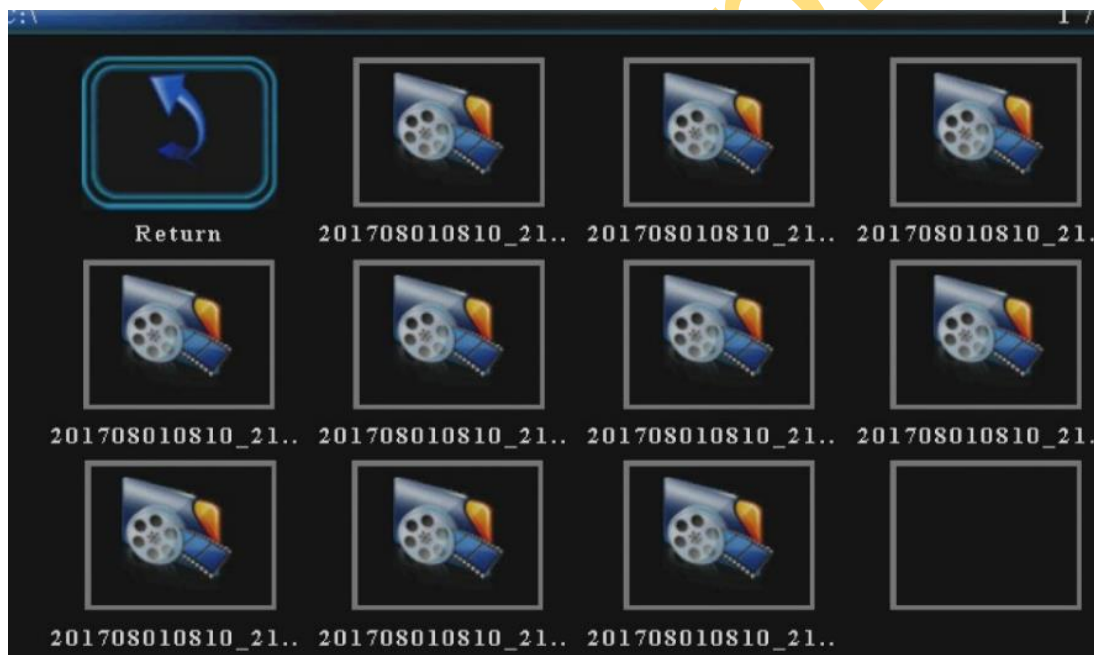
Playback / Check recorded file

Playback recorded file directly

After recording, you may want to playback the recorded file. Just press the PLAYBACK button (or PLAYBACK key on remote control), you will see the playback page on screen.



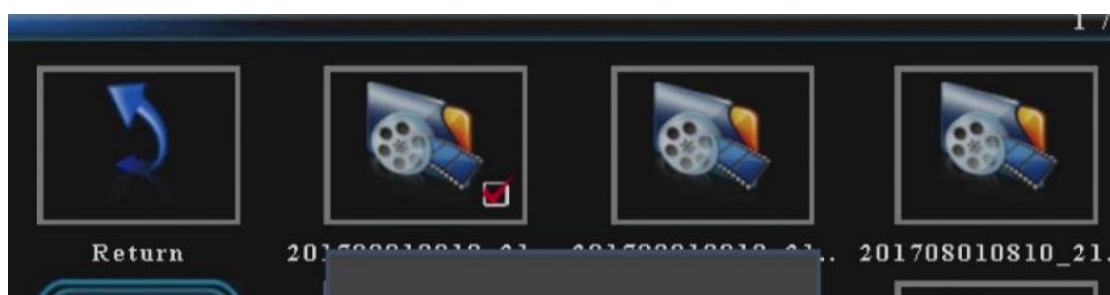
Choose PHOTO folder to check photo files, and choose MOVIE to check video files:



Use menu direction button (or direction buttons on remote control) to choose movie then press PLAY/PAUSE button to playback the recorded video.

You can press LAST, PLAY/PAUSE, NEXT, FAST BACKWARD, FAST FORWARD button to operate playback as usual.

Delete recorded video file: Use menu direction button (or keys of remote control) to choose the file you want to delete, press OK button to select it, then press DELETE button, press LEFT or RIGHT to choose Yes and press OK to delete the file.



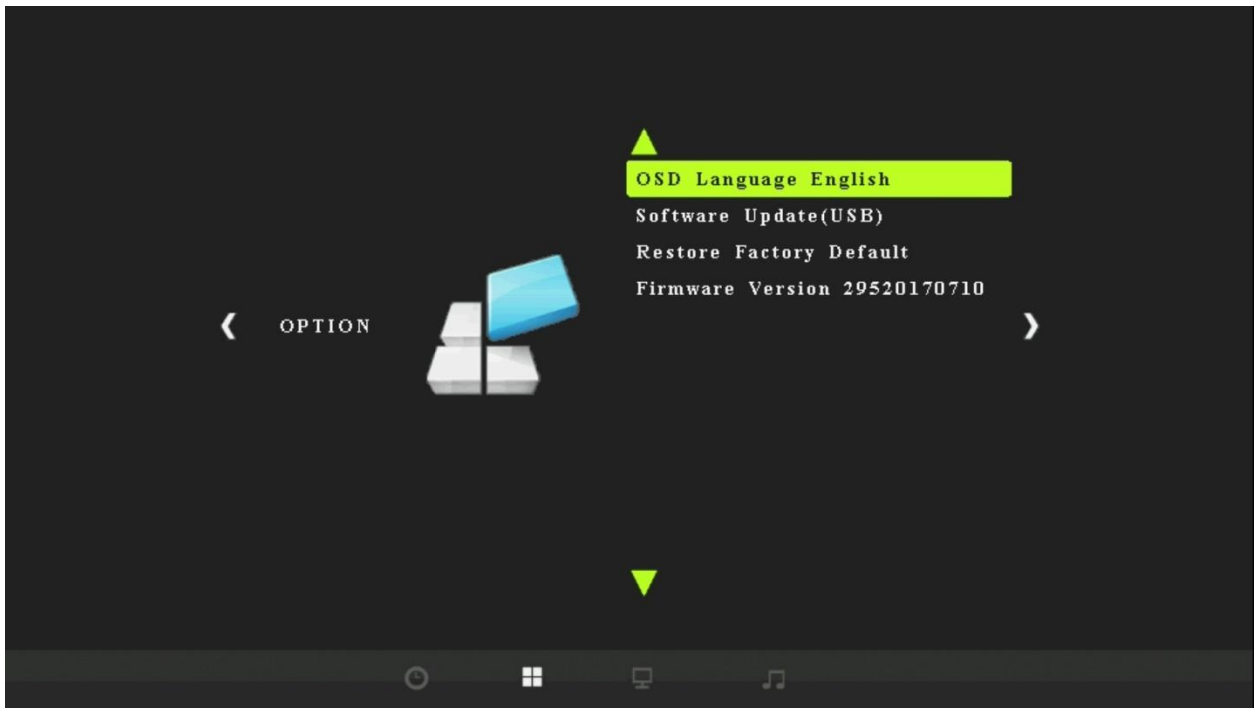
Playback, check, or backup recorded file on your computer

You also can pull out USB flash drive or USB HDD from USB HOST, and connect to your computer to backup them, and playback with other video playback software.

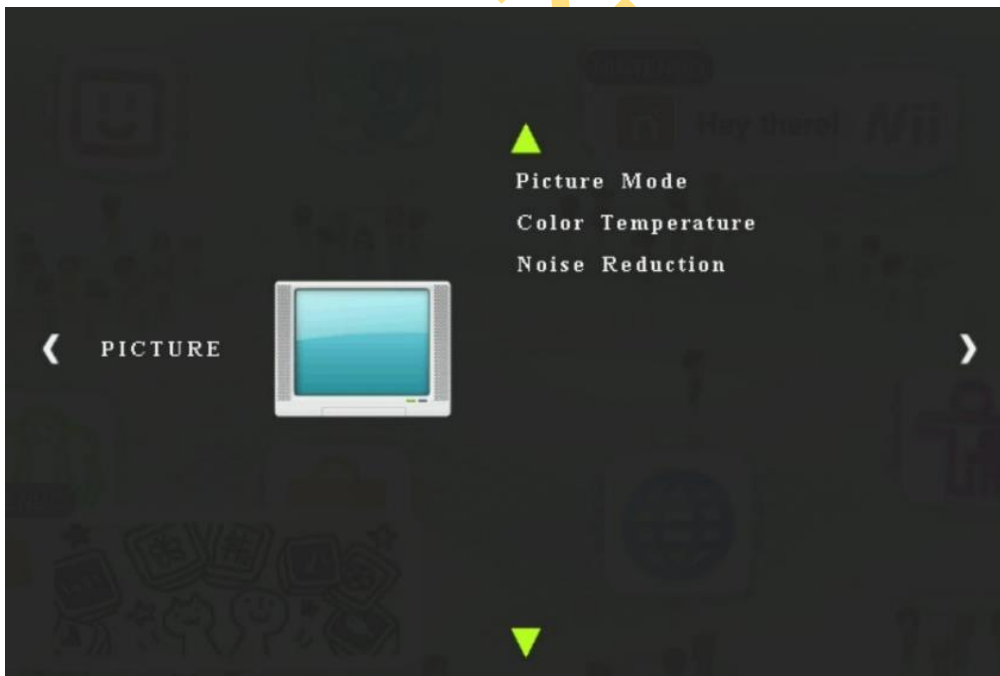
And you can connect mini USB cable with READ HDD port and your computer, and **set device to USB mode (not HDD mode)**, then you can backup the video files in HDD to your computer, and playback with other video playback software.

other Settings

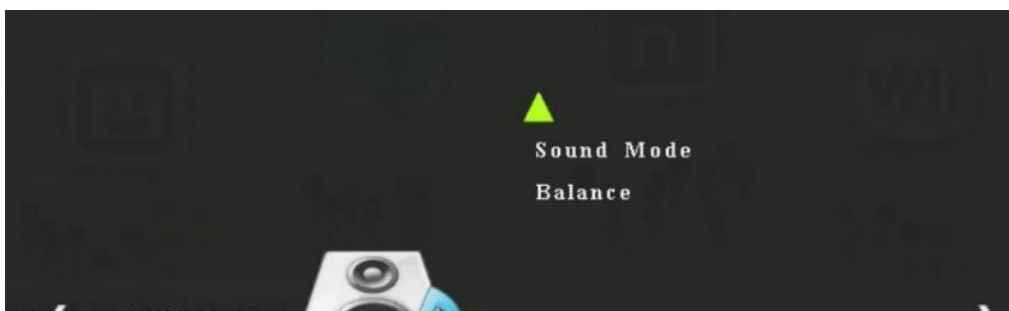
Press MENU button to enter menu operations, press direction keys to choose the settings. Set OSD Language.



Picture mode:



Sound mode:



Update firmware.

There are two firmware for this device – system part, record part.
Please make sure the device is on USB HOST mode before you update firmware.

1, Update firmware for SYSTEM PART: Copy the firmware file (MERGE.bin) to USB flash drive, plug USB drive to USB HOST, then press MENU button, use direction key to choose **Software Update (USB)** as above picture, then press OK and LEFT to update. Screen will display updating process from 1% to 100%, then screen turns black and display video again, it means device update firmware successfully.

2, Update firmware for RECORD PART: Copy the firmware file (jedi.img) in to USB flash drive, press POWER button to turn off device, plug USB drive to USB HOST, then press POWER button again to turn on device. The red indicator LED next to VIDEO button will flash few seconds, then LED turns off. It means the updating is finished. Plug USB flash drive to computer, and the jedi.img file disappears, it also means updating successfully.

Specifications

General

Recordable Devices	USB Flash Drive, USB Hard Drive, 2.5 inch Hard Drive. (supports FAT, FAT32 and NTFS format, and does not support exFAT format)
Display	4.3 inch LCD
Power supply	DC 12V3A
Operating temperature	41 to 104 deg F (5 to 40 deg C)
Storage temperature	-4 to 140 deg F (-20 to 60 deg C)

Operating humidity	5 至 80% (No condensation)
Dimention	262(L) X 172(W) X 120(H) mm
Weight	1.6 Kg
Accessories	Ezcap292 Medical Imaging Workstation X1, Remote Control X 1, IR Receiver cable X 1, USB 3.0 cable X 1, Mini USB cable X 1, Operation Manual X 1

Recording Format

Still Image	JPEG
Video	MPEG-4 H.264

Input/Output

Video Input	HDMI X 1, SDI(BNC) X 1, DVI X 1, VGA X 1, CVBS(BNC) X 1, YPbPr(BNC) X 1
Audio Input	HDMI(from HDMI video input) X 1, SDI(BNC)(from SDI video input) X 1, LINE IN(3.5mm stereo jack) X 1, MIC(3.5mm stereo jack) X 1
Video Output	HDMI X 1, *SDI(BNC) X 1, *CVBS(BNC) X 1 (Note: SDI OUT is only for SDI input, CVBS OUT is only for CVBS input)
Audio Output	HDMI(from HDMI video output) X 1, *SDI(BNC)(from SDI video output) X 1, LINE OUT(3.5mm stereo jack) X 1, (Note: SDI audio output is only for SDI input)
Other Interfaces	Video Foot Pedal port(3.5mm stereo jack) X 1, Photo Foot Pedal port(3.5mm stereo jack) X 1, IR Receiver cable port(3.5mm stereo jack) X 1, READ HDD port(Mini USB) X 1, PC port(USB

	3.0) X 1, Extension port(RS232) X 1, DC Power Supply port X 1
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Recording Times for a 500GB Hard Drive (1920 X1080)

High quality (16Mbps)	75 hours
Medium quality (10Mbps)	115 hours
Low quality (5Mbps)	275 hours

*Features and specifications are subject to change without notice.

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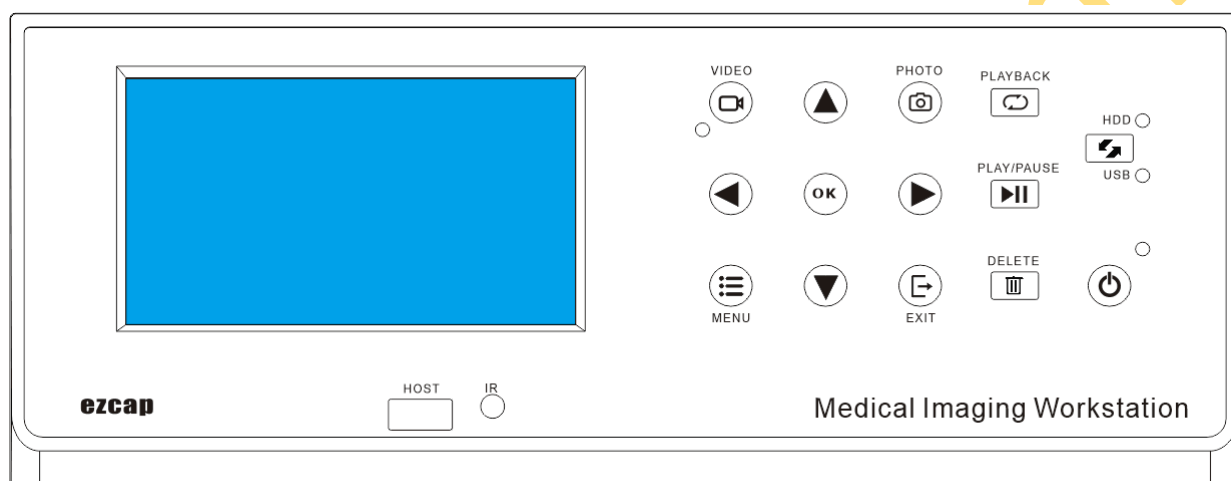
医疗影像工作站

操作手册

感谢您购买使用我司 ezcap292 医疗影像工作站，手册将会说明该设备的使用场合、连接、设置和如何使用，希望该产品能够带给你美好的使用体验。

外观、接口、按键和指示灯

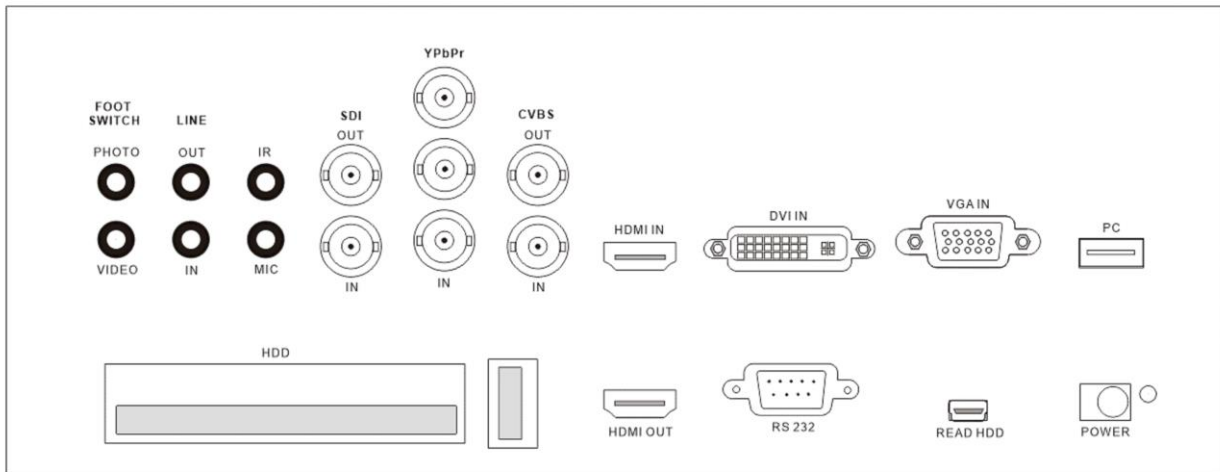
面板：



1. HOST – 连接 U 盘或 USB 移动硬盘，保存采集录制的影像资料；或用于设备固件程序升级。
2. IR – 红外遥控接收，用于接收遥控器发出的指令。
3. VIDEO – 按下录制影像，再次按下停止录制。
4. PHOTO – 按下抓取一张图片。(录制视频期间该键无效)
5. MENU – 按下进入菜单。
6. EXIT – 退出当前功能。
7. PLAYBACK – 预览模式下，按下进入回放模式。
8. PLAY/PAUSE – 回放模式下，按下开始播放选中的视频文件，再次按下暂停播放。
9. DELETE – 删除键，回放模式下，选择需要删除的文件后按下该键，提示是否删除，按下 OK 键执行删除。
10. HDD/USB 切换键 – 按下在 HDD 硬盘和 USB HOST 接口之间切换，机器上电默认 USB HOST。
11. POWER – 电源开关，默认接通电源开机，按下关机。(设备有记忆功能，重新开机设备会记忆上次开机时的所有设置。录制期间该键无效。)

12. OK/上/下/左/右 – 菜单导航及确认按键。上/下按键还可以调整音量大小，左/右按键还可以调整麦克风音量大小。

背板：



13. FOOT SWITCH – 脚踏板接口，PHOTO 对应抓取图片，VIDEO 对应录制视频。

14. LINE OUT/ LINE IN – 音频线路输出和输入接口。

15. IR – 连接红外遥控接收接线，将接收头固定在想要的位置便于接收遥控器发送指令。

16. MIC – 麦克风输入接口。

17. SDI OUT / IN – SDI 信号输出输入接口。

18. YPbPr IN – 色差信号输入接口。

19. CVBS OUT / IN – CVBS 信号输出输入接口。

20. HDMI IN – HDMI 信号输入接口。

21. DVI IN – DVI 信号输入接口。

22. VGA IN – VGA 信号输入接口。

23. PC – USB 3.0 接口，连接电脑，配合医疗软件，可将设备当作高清视频采集卡使用。

24. HDD – 2.5 寸硬盘插槽。

25. HDMI OUT – HDMI 信号输出接口。

26. RS232 – 扩展接口。

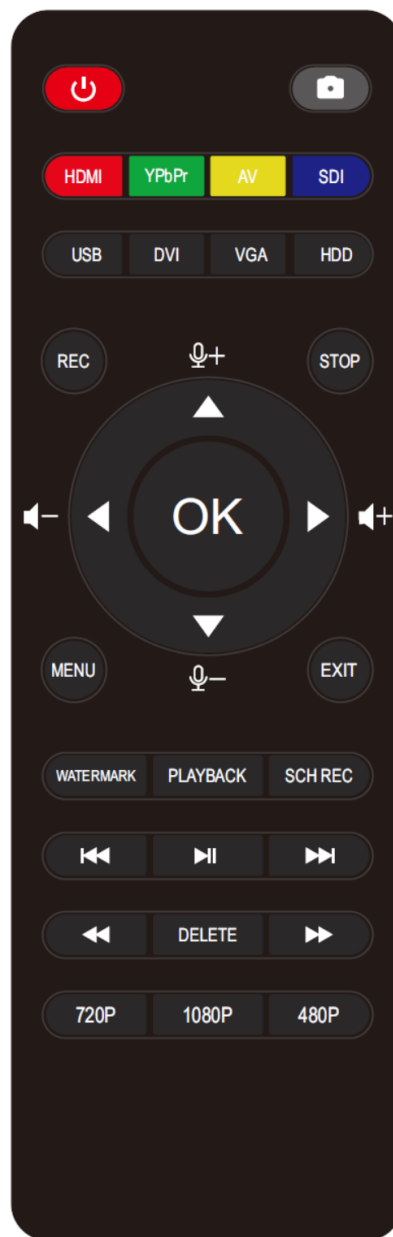
27. READ HDD – 迷你 USB 接口，用于连接电脑读取拷贝硬盘的数据。

***只有在 USB 模式下才可以读取硬盘里的视频数据，在 HDD 模式下无法读取。**

28. POWER – 直流电源输入接口，标称直流 12V3A。

遥控器

1. POWER - 开关键，设备默认为电源开模式，在关闭电源并重新启动后，设备会记忆关电之前的所有设定。
2. PHOTO - 抓图键，只有在不录制的状态下有效。
3. HDMI/YPbPr/AV/SDI/DVI/VGA - 选择输入视频源。
4. USB - 选择 USB HOST 作为存储媒介。
5. HDD - 选择 HDD 作为存储媒介。
6. REC/STOP - 开始录制视频和停止录制视频。
7. OK/上/下/左/右 - 菜单导航选择和确认键，左右按键调节主音量，上下按键调节麦克风音量。
8. MENU - 按下接入设置菜单。
9. EXIT - 退出当前功能。
10. WATERMARK - 按下显示当前时间水印并被记录于录制视频文件左上方，再次按下则取消时间水印。
11. PLAYBACK - 按下进入回放模式，按 EXIT 按键或任意视频源按键则返回预览模式。
12. SCH REC - 设定预约录影。
13. 播放/暂停/上一个/下一个/快退/快进/DELETE - 回放模式下的功能键，DELETE 可以删除选中的文件。
14. 720P/1080P/480P - 设定 HDMI 输出和录制的视频分辨率。



产品连接

设备包装里包括了如下配件：电源适配器，遥控器，遥控接收线，USB 3.0 线，迷你 USB 线。请自行准备其它产品链接需要的线材和配件。

1, 连接 DC12V 直流电源到背板 POWER 接口，此时接口旁 LED 灯亮起，面板 POWER 按键旁 LED 也会常亮。

2, 连接视频源接线，你有如下视频源接口选项：CVBS，色差 YPbPr，SDI，HDMI，DVI 或 VGA。请连接一种你需要录制的视频源信号，而不要同时连接多种视频源信号。如果你一定要同时连接两种或以上信号源，那第一个连接的信号源为有效信号源。该设备具有记忆功能，再次开关机会优先选取之前选择的信号源，如果没有连接该信号源则会搜索其它接入的信号源。你还可以使用遥控器来选取你已经连接的其它信号源。

3, 连接音频源接线, 你有如下音频源接口选项: 线路输入 LINE IN, 麦克风输入 MIC。
请不要混淆两种音频源接入接口, 因为两者的电平不一样, 会导致音量很低或杂音等现象。

4, 连接视频输出至显示器, 你有如下选项: CVBS OUT, SDI OUT, HDMI OUT。
因为设备本身具有显示屏, 所以连接外部显示器不是必需的。
HDMI OUT 对所有输入视频源有效, 而 CVBS OUT 仅对 CVBS 输入有效, SDI OUT 仅对 SDI 输入有效。

5, 连接 LINE OUT 音频输出至耳机或音箱。
如果你需要听到声音, 则可以连接此接口。而如果输入源是 SDI 或 HDMI, 且连接了外部带有扬声器的显示器, 因为 SDI 和 HDMI 输入本身包含音频输出, 则无需连接 LINE OUT 接口。

6, 连接存储设备。你可以选择用 U 盘或 USB 硬盘连接面板的 USB HOST 接口, 或用 2.5 寸硬盘插入背板的硬盘插槽。设备默认为 USB HOST 接口, 如果需要切换请按面板的 USB/HDD 切换键, 并有指示灯提醒状态。
存储器支持的格式为 NTFS, FAT 和 FAT32, 不支持 exFAT 格式。

7, 连接 FOOT SWITCH 脚踏板开关接口, 连接 PHOTO 用于抓取图片, 连接 VIDEO 用于录制图像。

8, 使用红外遥控接收线连接背板 IR 接口, 并固定好红外接收头以便接收遥控信号。 如果不需要则忽略该步骤。

9, 使用 USB 3.0 线材连接设备 PC 接口到电脑的 USB 3.0 接口。
如果你需要连接电脑并使用自己的医疗软件来采集视频或抓取图像, 请连接此接口, 否则不需要。设备支持 UVC 系统, 能兼容绝大多数视频软件, 但并不肯定, 需要你自行测试确认。

录制

独立录制模式 – 录制视频并直接存入 U 盘, USB 移动硬盘或 2.5 寸硬盘

连接好后, 你一定可以在显示屏上获得影像, 如果你连接了电视或显示器, 也可以在电视机或显示器上获得影像和声音。请确认你需要连接的存储设备, 对应的存储 LED 应该常亮, 此时医疗影像工作站已经准备就绪。

请按下面板 VIDEO 按键(或遥控器 REC 按键), 你看到 VIDEO 按键旁的红色录制指示灯亮起, 这就代表已经开始录制了。如果要停止录制, 你只需再次轻按 VIDEO 按键(或遥控器 STOP 按键), 你将会看到 LED 指示灯闪烁几下然后熄灭, 这时说明已经停止录制。
按下面板上的 PHOTO 按键(或遥控器抓图按键), 红色录制指示灯会点亮几秒后熄灭, 表示此时已经抓取了一张图片并保存到存储器中。**此动作在设备录制视频期间无效。**

按上/下导航键可以调整音量大小, 按左/右导航键可以调整麦克风音量大小。
按遥控器 720P/1080P/480P 按键可以切换录制和输出的视频分辨率。
按遥控器 WATERMARK 按键, 录制文件左上方则会显示时间水印, 再次按下则取消时间水印。

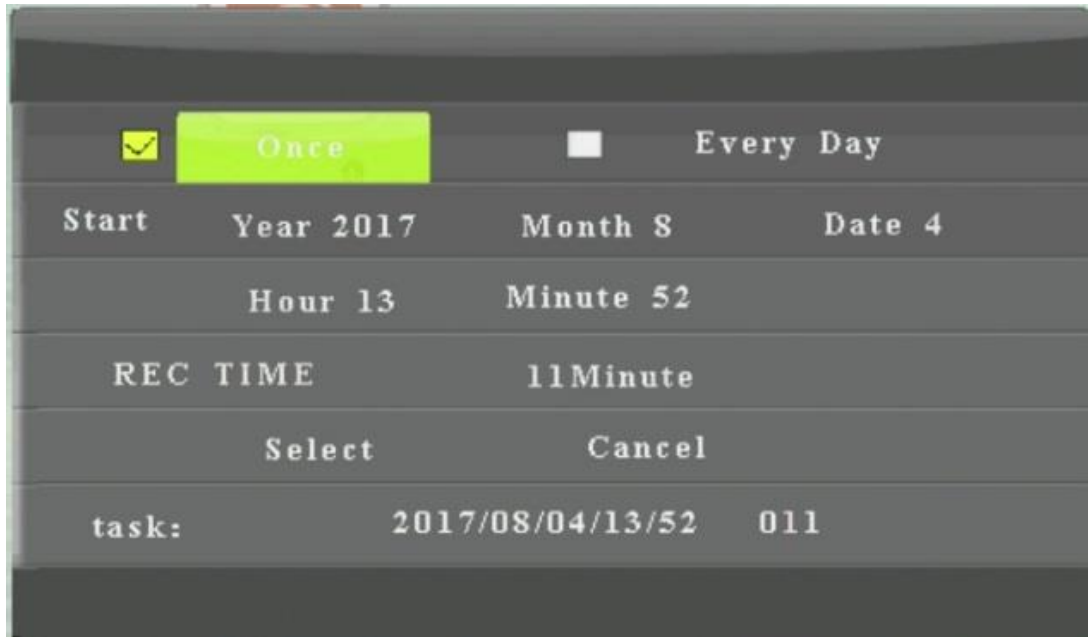
如果按下 VIDEO 按键, 指示灯没有变化的话, 或许有如下几种原因, 请确认:

- 1, 输入的视频源没有连接好
- 2, 存储设备容量已满
- 3, 存储设备的格式不适合, 比如 exFAT 格式。设备支持 FAT、FAT32 和 NTFS 格式。
- 4, 存储设备没有和设备连接好。
- 5, 存储设备还没有准备好, 一般连接后需要 4~8 秒的时间。

预约录影:

在设定预约录影前, 请先正确设定本地正确时间。

按下遥控器 SCH REC 按键, 首先设置预约录影时间等信息, 并点击 Select 后在 task 栏目下显示设置的具体信息。完成设置后, 设备会根据具体设置自动开始和停止录制。



设定录制视频质量和是否分段:

按下 MENU 按键 (或遥控器 MENU 按键) 进入如下菜单界面, 按上下导航键选择需要设定的子菜单。

时钟: 设定系统时间。

预约录影: 设定预约录影 (与之前预约录影的描述一致)。

录制画质设置: 设定录制视频质量, **高**对应 16Mbps, **中**对应 10Mbps, **低**对应 4Mbps。

录制文件: 设定录制的文件是否分割为每 1.95G 一个文件, 或者不分段仅仅一个文件。**分段**表示录制文件会被分割, **不分段**表示录制文件不会被分割而是一个文件, 不分段仅仅对 NTFS 格式的存储设备有效。

时间水印: 设定时间水印 (与上述 WATERMARK 描述一致)。



当 LED 指示灯闪烁时，请不要立即拔出 U 盘，SD 卡或硬盘，否则有可能会丢失或损坏录制文件。如果存储设备录制满，该医疗影像工作站会自动停止录制，不会损坏或丢失之前的影像文件。停止录制后，如果连接的是 U 盘或 USB 硬盘，请从设备移除，连接电脑查看录制的影像文件。

视频采集卡模式 – 连接设备到电脑，使用软件采集视频并存储到电脑里

ezcap292 医疗影像工作站还可以作为 USB 高清视频采集卡使用。USB 3.0 高速接口，UVC 架构，可以与专业医疗视频软件配合采集录制视频，并串流和分享。只需要用 USB 3.0 线连接背板的 PC 接口和电脑的 USB 3.0 接口，运行视频采集软件，并选择“ezcap Medical HD”作为视频采集设备即可。

如果输入的影像有音频，且预览或采集的影像音频质量糟糕，则需要你设定音频采集采样率为 48KHz。设备连接到电脑后，右击电脑桌面右下角的扬声器图标，选择“录音设备(R)”。双击音频接口 ezcap Medical HD 后，在出来的窗口下点击高级 栏目条，并在出来的下拉框中选择 2 通道，16 位，48000 Hz (DVD 音质)。

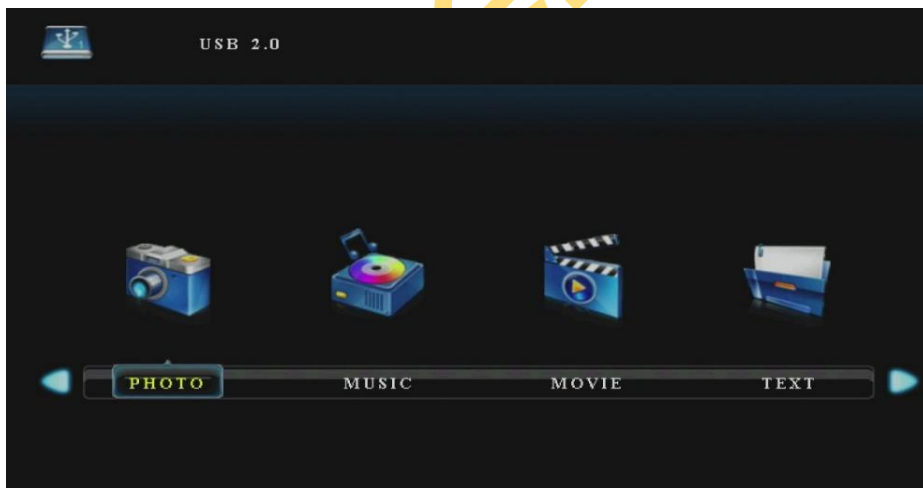
注：通常情况下完成上述设置后将会获得良好的音频。如果设定完还是噪音，表示视频源的音频采样率为 44.1KHz 或 32KHz，请将此处设置为 44.1KHz 或 32KHz，直至音频正常为止。

ezcap292 医疗影像工作站不仅可以支持 Windows 系统，还支持 Mac 系统和 Linux 系统，你仅仅需要选择“ezcap Medical HD”作为视频采集设备即可。

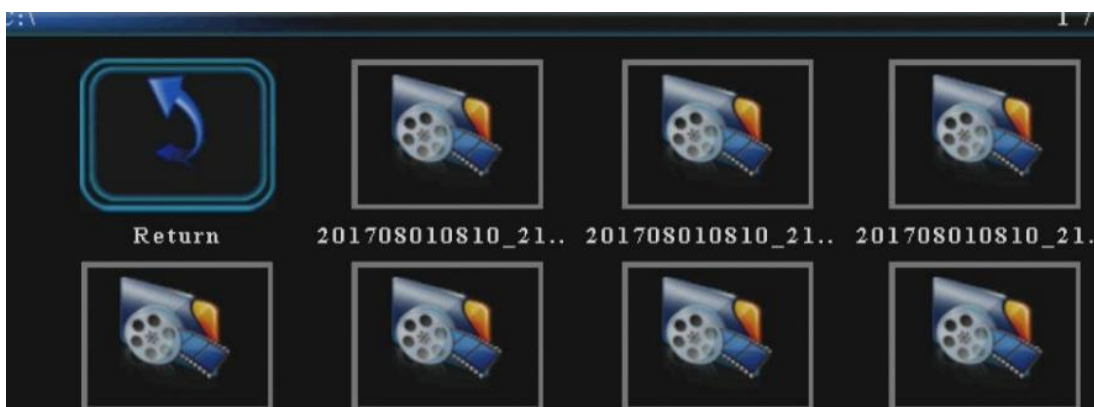
确认录制的影像文件及回放

设备直接回放确认录制的视频文件

完成录制后，你应该需要回放录制的视频文件来确认录制是否完好。按下面板的 PLAYBACK 按键(或遥控器 PLAYBACK 按键)进入回放模式，显示屏会显示回放页面。

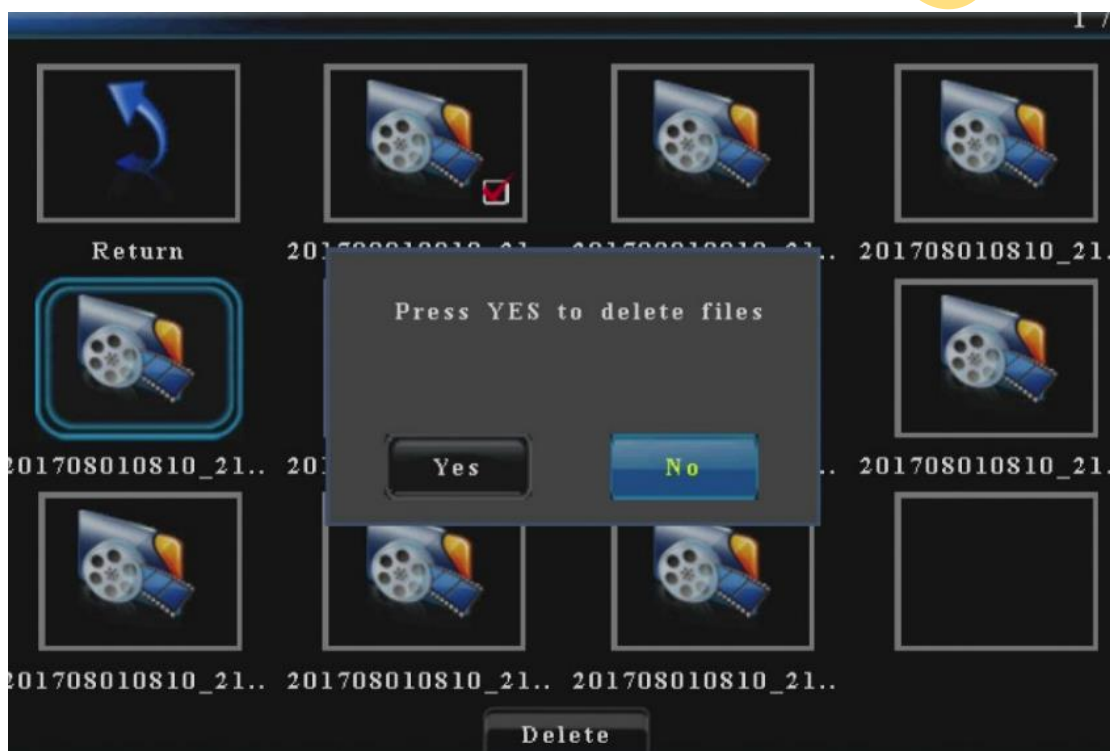


导航键选择 PHOTO 文件夹以确认图片文件，或选择 MOVIE 文件夹以确认录制的视频文件。



用面板的导航键(或遥控器导航键)将光标移动到需要播放文件，按下播放键开始播放。你还可以使用其它播放功能键(面板和遥控器都有)来实现通常播放器的快退、快进、上一个、播放/暂停、下一个这些常用功能。

使用 DELETE 按键(面板和遥控器都有)删除文件：先用导航键指定到需要删除的文件，按 OK 键确认选定该文件，按下 DELETE 键会出现如下提示，选择 Yes 删除该文件。



在电脑上回放，确认，备份录制文件

你还可以从 USB HOST 接口拔出 U 盘或 USB 移动硬盘，并插入电脑的 USB 接口，将录制文件拷贝到电脑里，或通过电脑的视频播放器来回放并确认录制的视频文件。

用迷你 USB 线连接背板的 READ HDD 接口和电脑的 USB 接口，可以将 2.5 寸硬盘的录制文件拷贝到电脑里，或通过电脑的视频播放器来确认录制的视频文件。**注意，此时必须设定设备为 USB 存储器模式。**

其它设定

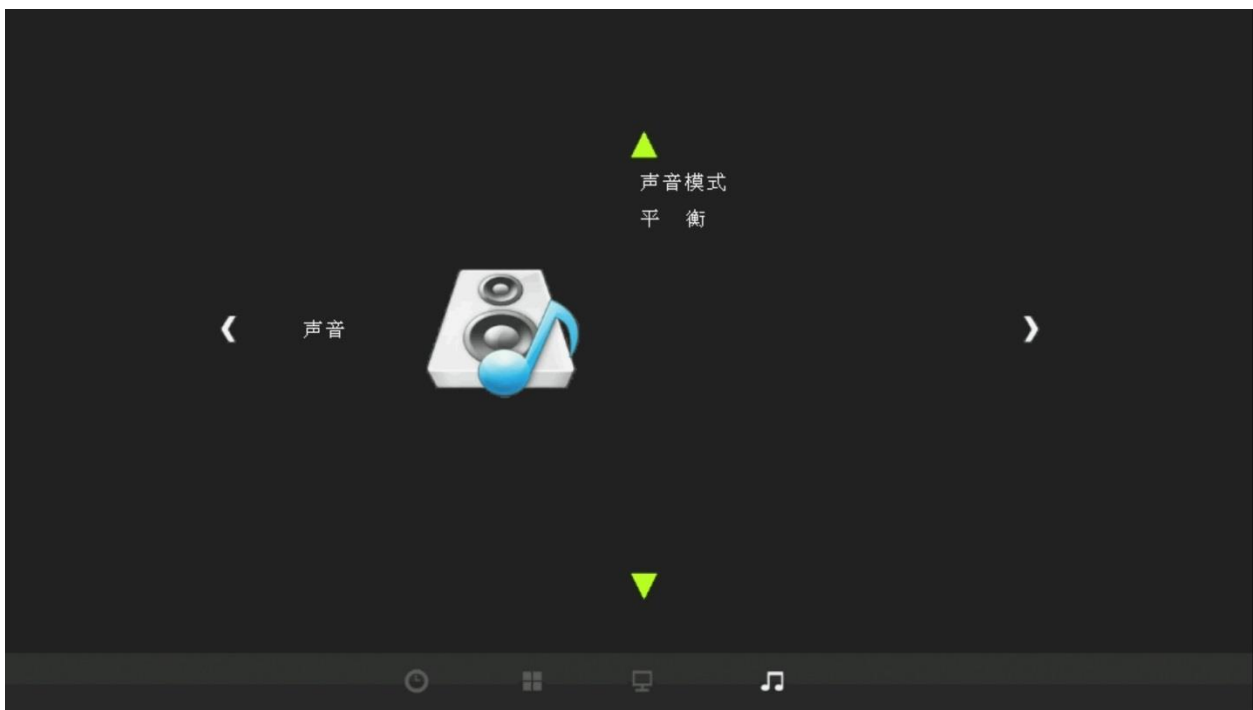
按下 MENU 按键(或遥控器 MENU 按键)进入菜单操作, 通过导航键来选择你需要设定的项目。
设定菜单语言。



图像模式。



声音模式。



设备固件程序及其它

设备包括两部分程序 – 系统部分 和 录制部分，这两部分的固件程序升级是分开进行的。升级程序前，请确保设备处于 USB 存储器模式下。

1, 更新系统部分的固件程序：复制固件程序文件(MERGE.bin)至 U 盘，将 U 盘插入设备 USB HOST 接口，按 MENU 按键和导航键选择“**软件升级(USB)**”，并按下 OK 键和左方向键升级。显示屏会显示从 1%到 100%升级进程，然后显示屏黑屏后重新亮起并正常显示视频，则表示升级成功。

2, 更新录制部分的固件程序：复制固件程序文件(一般文件格式为 jedi.img)至 U 盘，按下 POWER 键关机，将 U 盘插入设备 USB HOST 接口，再次按下 POWER 键开机，此时 VIDEO 旁的红色指示灯会闪烁几秒后熄灭，表示升级完成。此时如果将 U 盘插上电脑，会发现 jedi.img 文件消失了，这同样表示升级成功。

规格参数

一般

可记录装置	USB 闪存驱动器, USB 硬盘驱动器, 内置 2.5 寸硬盘驱动器 (注: 支持 FAT16, FAT32 和 NTFS 格式, 不支持 exFAT 格式)
显示器	4.3 英寸 LCD
电源	DC 12V3A
操作温度	5 至 40°C

存储温度	-20 至 60°C
操作湿度	5 至 80% (无结露)
尺寸	262(长) X 172(宽) X 120(高) mm
重量	约 1.6 Kg
包装内容	ezcap292 医疗影像工作站 X 1, 电源适配器 X1, 红外遥控器 X 1, 遥控接收线 X 1, USB 3.0 线 X 1, 迷你 USB 线 X 1, 操作手册 X 1

记录格式

静止图像	JPEG
视频	MPEG-4 H.264

输入 / 输出

视频输入	HDMI X 1, SDI(BNC) X 1, DVI X 1, VGA X 1, 复合视频(BNC) X 1, 色差分量(BNC) X 1
音频输入	HDMI(同 HDMI 视频输入) X 1, SDI(BNC)(同 SDI 视频输入) X 1, LINE 线路输入(3.5 毫米立体声插孔) X 1, MIC 麦克风输入(3.5 毫米立体声插孔) X 1
视频输出	HDMI X 1, *SDI(BNC) X 1, *复合视频(BNC) X 1 (注: SDI 输出仅在 SDI 输入时有效, 复合视频输出仅在复合视频输入时有效)
音频输出	HDMI(同 HDMI 视频输入) X 1, *SDI(BNC)(同 SDI 视频输入) X 1, LINE 线路输出(3.5 毫米立体声插孔) X 1, (注: SDI 输出仅在 SDI 输入时有效)
其它接口	录制视频脚踏板接口(3.5 毫米立体声插孔) X 1, 抓图脚踏板接口(3.5 毫米立体声插孔) X 1, 红外遥控接收接口(3.5 毫米立体声插孔) X 1, 读取硬盘接口(迷你 USB) X 1, 连接电脑接口(USB 3.0) X 1, 扩展接

	口(RS232) X 1, 直流电源适配器输入接口 X 1
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500GB 硬盘驱动器录制时长 (1920 X1080)

高 (16Mbps)	75 小时
中 (10Mbps)	115 小时
低 (5Mbps)	275 小时

注：功能和规格若有变更，恕不另行通知。

www.ezcap.com