



**MUXLAB**  
INFINITE CONNECTIONS

## Video Capture & Recorder

# User Manual

## 100512-V2



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# 1 Safety Precautions

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for future reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock, and injury.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burns.
- Do not open or remove the housing of the device as you may be exposed to dangerous voltage or other hazards.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture and do not install this product near water. Keep the product away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Using supplies or parts not meeting the product specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- Install the device in a place with adequate ventilation to avoid damage caused by overheating.
- Unplug the power when left unused for a long period of time.
- Information on disposal of devices: do not burn or mix with general household waste, please treat them as normal electrical waste.

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## 2 Introduction

The Video Capture and Recorder (Model: 100512-V2) allows the user to record from HDMI video sources to a USB Flash Drive or Removable Hard Drive. High definition video recording does not require a computer and can be recorded from a variety of HDMI source equipment like Computers, Game Consoles, TV Set Top Boxes, and other sources.

The maximum input resolution supported is 1080p/60 and the maximum recording resolution is 1080p/30. The unit supports line In and microphone mixing, recording and a headphone output.

Operation is as easy as placing the device between an HDMI source and an optional display and simply pressing a button to start recording.

## 3 Features

- Capture video at up to 1080p/60 and record at up to 1080p/30
- HDCP compliant
- Record to external USB Flash Drives and Removeable Hard Drives for flexible storage
- Easy setup and one button operation
- Mic input supporting mic & source audio mixing
- Headphone audio output
- Record from HDMI sources such as PCs, Game Consoles, TV set Top Boxes, etc.

## 4 Package Contents

- One (1) Video Capture & Recorder
- One (1) USB-C Power Cable
- One (1) Composite Video Adapter Cable
- One (1) RCA Adapter
- One (1) User manual (available via download)

**Notes:** Confirm that the product and accessories are all included. If not, please contact the supplier from which you purchased the unit.

## 5 Specifications

Interface	USB 2.0
Video Input	HDMI, Composite video (3.5mm 4-pole)
Audio Input	HDMI, Analog L/R audio (3.5mm 4-pole), 3.5mm TRS microphone input, 3.5mm TRS audio line input.
Video Output	HDMI
Audio Output	HDMI, 3.5mm TRS audio line out.
User Interface	RECORD/STOP button, Power and status indicator.
Storage Media	USB flash drive and USB HDD. Supports FAT32 and NTFS, exFAT is not supported.
Resolution for Input and Output	720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (50i), 1920 x 1080 (60i), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (50p), 1920 x 1080 (60p)
Resolution for Recording	720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (25p), 1920 x 1080 (30p), (720 x 480 30fps, 720 x 576 25fps, only for Composite video input)
Record Format	.mp4
Record Quality	Max: 16Mbps@1080P 30fps
Record File	Max 1.95G per file. About 130MB/Minute, 8GB/Hour for 1080p recording.
Power Supply	USB-C power jack (5VDC, 2A USB power adapter is not included)
Dimensions	112(L) x 75(W) x 27(H) mm
Weight	135g
Warranty	2 years
Order Information	100512-V2 Video Capture & Recorder

## 6 Product Overview and Connections



1. LINE IN: Connect to audio source such as mixer, smartphone or music player, and mix the audio with video together.
2. MIC IN: Connect to microphone (3.5mm 3-pole TRS) to mix sound with video together.
3. LINE OUT: Connect to earphone or speaker (3.5mm 3-pole TRS)
4. Status Indicator: Power on: Green. Recording: Red. Stop and Saving: Red flashing.
5. REC: Press to start recording, press again to stop recording.
6. DC IN: Connect to USB 5VDC 2A power with USB-C cable. (power adapter is not included).
7. AV IN: Connect to composite video source such as VHS or Camcorder by the included composite video adapter cable or/and the included 3RCA adapter. Yellow=video, white=audio left channel, red=audio right channel.  
Please use the included cable connect to video source device if the device includes the direct RCA YELLOW and WHITE/RED female connectors. Sometimes maybe device only with YELLOW and WHITE connectors, so you do not need to connect the RED connector. Please use the included cable and adapter connect to video source device if the device also includes the dedicated video output cable.
8. HDMI IN: Connect to HDMI OUTPUT of video source such as game console or set-top box.
9. HDMI OUT: Connect to TV or monitor to display video.
10. USB HOST: Plug an USB flash drive or USB HDD to save the recorded files.  
After you plug, you need to wait 4 – 8 seconds for USB flash drive to be ready. Supports FAT, FAT32 and NTFS format USB flash drive and USB HDD, does not support exFAT format. Please format USB flash drive before use it. After format, please eject the USB device before disconnecting it from your computer.

Note: Please do not connect HDMI input and Composite video input at the same time.

## 7 Start Work

### Record Video

You will preview the video on TV or monitor when all connections are ready, press REC button to record video, and RED led will light, it means it is recording. Press REC button again to stop recording, RED led flashes few seconds then off, it means recorded video has been saved in USB flash drive well.

Note: Video Capture & Recorder only support HDMI PCM audio. Please set PCM instead of DTS or Dolby if you cannot get sound from the recorded file.

### Recorded Files

You can take off USB flash drive to connect to your computer to check the recorded video files after you stopped recording. It is named Encode\_1080P\_1.mp4 or Encode\_1.mp4. (For 720p or 480p recording, file will be Encode\_1.mp4.)

Every record/stop operation will create a different recording file: Encode\_1080P\_1, Encode\_1080P\_2, Encode\_1080P\_3... and so on.

The max size per file will be around 1.95GB (About 17 minutes for 1080p video recording), when you record a video more than 1.95GB, Video Capture & Recorder will partition it in more than one file, for example: if you record a 45 minutes 1080p video by one click recording, you will see 3 files: Encode\_1080P\_1, Encode\_1080P\_1\_1, Encode\_1080P\_1\_2 ... and so on.

After long time using, you will see the number of recording file become too big, for example Encode\_234, but you want it be start from Encode\_0, to do it you just keep press REC button before power on, then plug the USB power jack to power on the device, after 3 seconds, the file number will start from 0.

### Update Firmware

Update firmware: you maybe need update firmware for some reason. Unplug USB power jack to power off the device. Copy the firmware file in to USB flash drive, and plug it to device. Plug USB power jack to power on, the indicator will flash 7~8 seconds, and become green, it means the update is finished.