

# CAP-502MJA

USB 3.0 Full HD Video Capture Device with Audio

User Manual



rev: 200602  
Made in Taiwan

## TABLE OF CONTENTS

INTRODUCTION.....	1
FEATURES.....	1
PACKAGE CONTENTS .....	1
SPECIFICATIONS .....	2
PANEL DESCRIPTIONS.....	3
CONNECTION DIAGRAM.....	3
USB PIN DEFINITION.....	4
WARRANTY .....	5

## INTRODUCTION

The **CAP-502MJA USB 3.0 Full HD Video Capture Device with Audio** provides a professional way to capture HDMI video signals. It adopts USB 3.0 interface, which can realize high-speed transmission. Users can capture Full HD (1080p60) video by this capture device. Besides, CAP-502MJA can capture and display original uncompressed HDMI video with more realistic color rendition. CAP-502MJA also uses large volume image buffer technology which effectively avoids the video tearing. The high sampling rate and high sampling accuracy assure images with high sharpness, rich details, and less color edges.

## FEATURES

- HDMI video and audio streams over USB 3.0
- Supports UVC1.0
- Supports video resolution up to 1080p 60Hz
- Auto-detection on video format to ensure plug-play operations
- Recording Video Format: H.264 (Software Compression)
- Works on multiple operating system platforms (Windows 7/8.1/10, Mac and Linux OS)
- Compatible with most 3<sup>rd</sup> party software such as OBS Studio and AMCap
- Supports USB 3.0 (MJPEG/YUY2) and USB 2.0 (MJPEG)
- Low Latency
- System Requirements (Recommended)
  - Windows® 7(SP1) / Windows 8.1 / Windows 10
  - PC: Intel® Core™ i5-4440 3.10GHz + NVIDIA® GeForce® GTX 660 or higher
  - Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher
  - 4GB RAM or higher



1. Video quality is apparently related to the capability of computer and software setting.
2. Please use the included USB 3.0 cable in the box to protect the device and avoid further compatible issues.

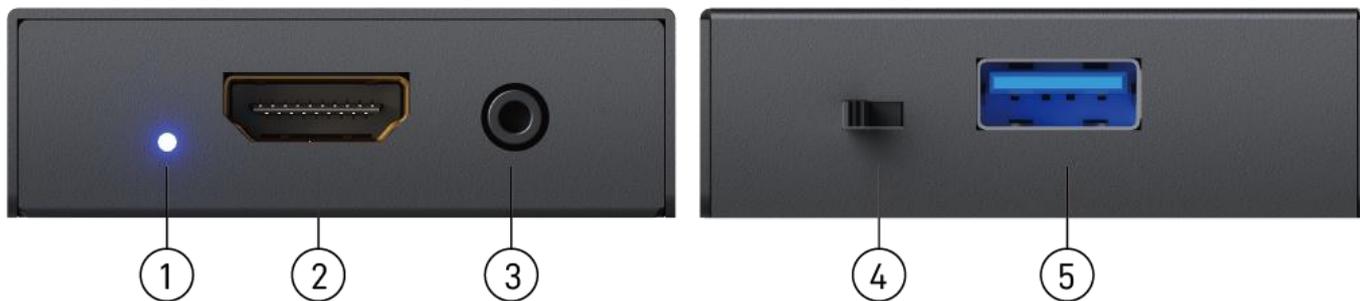
## PACKAGE CONTENTS

- 1x CAP-502MJA
- 1x USB 3.0 to A Cable (host to device)
- 1x User Manual

## SPECIFICATIONS

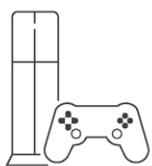
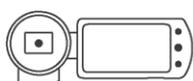
Model Name		CAP-502MJA
<b>Technical</b>		
Role of usage		Video Capture Device
Input Video bandwidth		150MHz
Output Video bandwidth		Up to 350MBps (USB)
Video support(USB)		Up to 1080p60
Audio Input		HDMI Embedded Audio & Stereo audio Input
Audio Format		2CH 16bit PCM
Recording Mode		Software Compression
Recording Video Format		YUY2 (USB3.0), MJPG (USB2.0/3.0)
ESD protection		Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
PCB stack-up		6-layer board [impedance control — differential 100Ω; single 50Ω]
Firmware update		Feasible via USB Port
Input		1x HDMI
Output		1x USB +1x 3.5mm
HDMI connector		Type A [19-pin female]
USB connector		USB 3.0 Type A (SuperSpeed USB)
Software compatibility (not complete list)		OBS Studio (Windows, Linux), AMCap (Windows), Potplayer (Windows), VLC (OS X, Linux), XSplit Boardcast (Windows), Skype (Windows, OS X), Zoom (Windows), Hangout (Windows), TeamViewer (Windows)
OS Support		Windows 7 /8.1 /10, Mac and Linux OS
<b>Mechanical</b>		
Housing		Metal enclosure
Dimensions [L x W x H]	Model	72 x 54 x 17mm[2.8" x 2.1" x 0.6" ]
	Package	165 x 111 x 42mm [6.4" x 4.4" x 1.7"]
	Carton	490 x 426 x 352mm [1'6" x 1'4" x 13.8"]
Weight	Model	102g[3.6 oz]
	Package	192g[6.7 oz]
Fixedness		Wall-mounting case with screws
Power supply		Via USB
Power consumption		2 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]

## PANEL DESCRIPTIONS



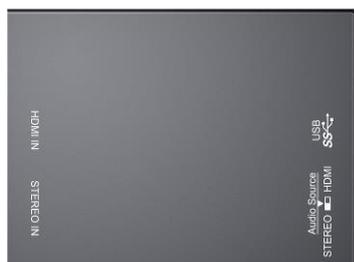
1. **LED INDICATOR:** Input signal indicator LED
2. **HDMI IN:** Connect to a HDMI source
3. **STEREO AUDIO IN:** Connect to analog stereo audio source
4. **AUDIO SWITCH:** [left] Audio from stereo audio in, [right] Audio from HDMI
5. **USB OUT:** Connect to a USB host (PC, NB, MAC...)

## CONNECTION DIAGRAM



Audio Source

HDMI CABLE



USB 3.0



## USB PIN DEFINITION



	P1		P2
VBUS	1	↔	1
D-	2	↔	2
D+	3	↔	3
GND	4	↔	4
SSRX-	5	↔	5
SSRX+	6	↔	6
GND	7	↔	7
SSTX-	8	↔	8
SSRX+	9	↔	9
Shield	SHELL	↔	SHELL

## WARRANTY

The SELLER warrants the **CAP-502MJA USB 3.0 Full HD Video Capture Device with Audio** to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the CAP-502MJA features and specifications is subject to change without further notice.**