

# AVerMedia

## CU331-HN

Full HD HW H.264 USB 2.0 Capture Box



### Features

- Input video source HDMI  
(Pass-through from HDMI input)
- Input audio source 3.5mm Stereo Audio  
(Pass-through from 3.5mm audio input)
- Hardware H.264 encoding
- Max. input resolution 1920 x 1080 60fps
- Max. capturing resolution 1920 x 1080 30fps

### Introduction

The CU331-HN Full HD HW H.264 USB 2.0 capture box is a complete, flexible and portable solution for digital video and audio capturing. Supporting HDMI 1.4a standard, the CU331-HN enables compressed and lossless Full HD (1920 x 1080 30 fps) video capturing. Seamless integration in vertical applications, such as: video wall, digital signage, Kiosk which require high video quality is made easy through the use of the AVerMedia SDK. Windows and Linux driver support is included making the CU331-HN the best choice for your digital capturing needs.

### Hardware H.264 Compression

The CU311-HN is equipped with an advanced built-in H.264 hardware encoder, which enables the system to encode without impacting the CPU's computing power but still maintain high quality video. This feature will help balance the loading and will increase the system's reliability. As a result, the CU311-HN will significantly assist to reduce the computing efforts on hardware and software in order to focus on other important parts of application in hand.

### Pass-through

The CU311-HN offers HDMI input and output allowing for an extra monitor for live previewing. It eliminates the need for an additional video splitter to achieve identical functionality. The pass-through function guarantees a smooth playback even while recording, which typically requires considerable CPU usage with a regular PC.

### Audio & Video Sync

To enhance playback experience and flexibility, the CU311-HN is able to capture both audio and video from different sources and combine them without AV-sync error. Making it an ideal solution for applications that require the capture of video and audio sources with perfect synchronization to ensure outstanding content quality.

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### Connection Diagram



### Specifications

Host Interface	USB2.0
Audio Interface	HDMI / 3.5mm jack
Audio Format	PCM
Audio Sampling Rate	32KHz, 44.1KHz, 48KHz
Connector Type	HDMI
Input Interface	HDMI
Color Format	YV12
Color Depth	8-bit
Channel No.	1Ch
Max. Input Resolution	1920 x 1080 60fps
Max. Recording Resolution	1920 x 1080 30fps

Encoding Mode	Hardware Encoding (H.264)
Multi-Card Support	No
Supported OS	Win 7/ 8.1/10 (32/64 bit) Linux (32/64bit)*
Form factor	Box
Dimension (L x W)	133mm x 69mm
Power Consumption	2.6W
Operating Temperature	0°C ~50°C
Operating Humidity	5% ~ 80% Relative Humidity
Safety Certification	FCC / CE

All specifications are subject to change without notice.

\* Driver Services  
For availability on Linux driver versions, please contact us.  
Driver customization service by request.

### Versatile SDK

AVerMedia software development kit (SDK), a set of development tools that allows a software engineer to seamlessly integrate video capture modules into application specific systems. Available upon request are the SDK Basic, SDK Pro and to better match each application's specific requirements premium add-on kits.

### Ordering Information

- CU331-HN: Full HD HW H.264 USB 2.0 Capture Box
- Accessories:
  - USB 2.0
- SDK kits
  - SDK Basic
  - SDK Pro (Optional)
  - Premium add-on kits (Optional)

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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