

AVerMedia

— Company Profile —

September 12, 2019

A Lean & Mean Video Technology Company

ABOUT US

Founded	January, 1990
Office and Factory Location	Taipei, Taiwan
Capital	US\$ 66.4 Million
Chairman	Michael Kuo
Employees	Total 249 42% employees are R&D 34% employees are Sales and MKT

Corporate Vision

Missions

As a social-responsible corporate citizen, we aim to foster innovation for communication and entertainment for life.

為增進人類的溝通性及娛樂性，並對社會有貢獻的企業

Vision

To deliver sustainable products with stable profit, as well as develop cutting-edge innovative technology that makes a difference.

Core Value

Down-to-earth

Value Creation

Dedication & Integrity

Social Responsibility

Global service (Localize)



AVerMedia Business Applications

Capture & Stream

Capture Appliance

- PCIe Video Capture Card
- Mini PCIe Video Capture Card
- M.2 Video Capture Card
- Wide Temperature Range Video Capture Card
- Conformal Coating Video Capture Card
- External Capture Solutions
- Software Development Kit (SDK)

Streaming Appliance

- Video Capture Card
- Wireless Teacher Microphone and System
- Webcam
- Streaming Kit
- Capture and Stream Software - RECentral 4

Standalone & Embedded

Standalone System

- Audio Video I/O Converter Hub
- Industrial Video Capture Card
- Industrial Video System- Encoder
- Industrial Video System- Decoder
- Content Management System (CMS)
- Device Management System (DMS)

Embedded System

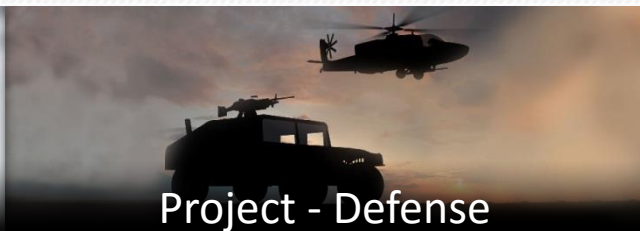
- Carrier Board
- A.I. Box PC with various video sources
- A.I. Box PC fanless and with fans



Capturing and Streaming



Project - Medical



Project - Defense



Project - TV Wall



Education



Enterprise



AI



Gaming



Content Creation



Professional Video/Audio



CONTENT CREATION

Content Creation

Streamer and YouTuber Appliances



Product Application:

Streamer and YouTuber Appliances

Requirements:

Quality video capturing & recording

Quality live streaming

Quality voice recording

Product Offering:

Ultra Low Latency Capturing: Live Gamer ULTRA

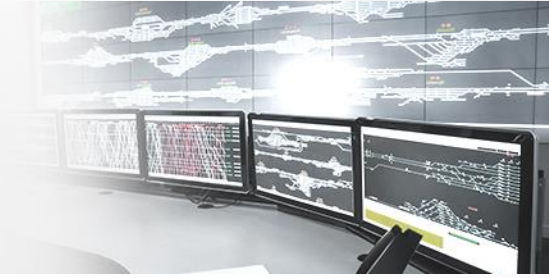
4K HDR Capturing: Live Gamer 4K

Audio: Live Streamer MIC



Content Creation

Control Room/Video Wall



Product Application:

Control room/video wall

Requirements:

Multiple Device and Input Support

HDCP Preview

No frame drops

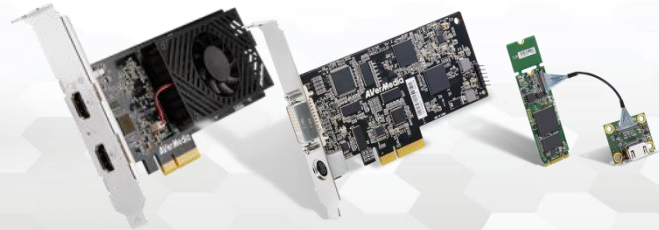
EDID Switch Control

Product Offering:

4Kp60 HDR HDMI Low Profile Video Capture Card

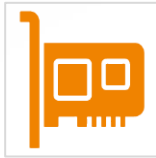
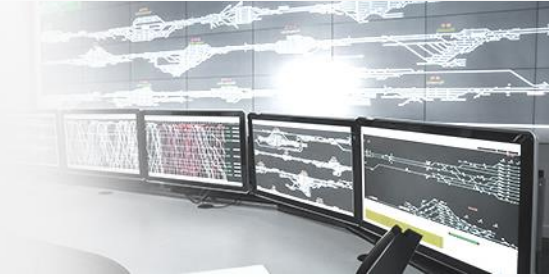
4Kp30 Multi-Input PCIe Video Capture Card

4Kp30 HDMI M.2 Video Capture Card



Content Creation

Control Room/Video Wall
Software Development Kit (SDK)



Device Control

Manage parameters and configuration of the capture device .



Data Rendering

Manage and process the decoded data for display.



Media Capture

Still/dynamic video frame capture with self-define parameters.

INSPECTION

Inspection

Video Game Development



Product Application:

Video Games

Requirements:

Video game debug

Captures the whole PC screen to run the random full screen click test.

Improve the performance of input video display when using third party software.

Product Offering:

4Kp60 HDR HDMI Low Profile Video Capture Card

4Kp30 Multi-Input PCIe Video Capture Card

1080p60 HDMI PCIe Video Capture Card

USB 3.0 HDMI Game Capture Card



Inspection

STB



Product Application:

STB (Set-top Box)

Requirements:

Automatic test, measure, and inspection covers 4K/HD/SD video stream, audio signal, and HDMI signal integrity

Detect DC voltage levels for each and every HDMI signal pin.

Automatic audio/video testing SDK.

Product Offering:

4Kp30 Multi-Input PCIe Video Capture Card

4Kp60 HDR HDMI Low Profile Video Capture Card

1080p60 USB 3.0 Capture Box

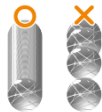
4K HDMI Signal Detector



Inspection

STB

Software Development Kit (SDK)



Signal Status Detecting

Resolution (4K), frame rate(P60), Colorimetry(BT.601, BT.709, BT.2020), Color Range(Limited[16-235], Full[0-255]), Color Depth(8/10/12bit).



Video Content Testing

Pixel/Macroblock Correctness, Frame Dropping, Color cast.



Audio Format Testing

Sampling Rate(32/44.1/48K), Bits(16/24), PCM, Channel(2.0/2.1/5.1/7.1).



Encoding Format Testing

YUV 4:2:2, RGB24.



HDMI Signal Detection (CT110)

Detect all of the HDMI signal DC level of product.

Software Development Kit (SDK)

Audio/Video Test Program

The screenshot displays the AVerMedia Audio/Video Test Program interface, which is divided into several functional areas:

- Benchmark file setting:** Located on the left, it includes sections for "Hardware Configuration" (with fields for Capture Device and Video Resolution), "Record Benchmark File" (with File Path and Start/Cancel buttons), "Verify And Repair Benchmark File" (with File Path and a checkbox for "Repair Error Section Automatically"), and "Load Benchmark File For Testing" (with a list of files and navigation controls).
- Video Source setting:** This area is represented by the "Captured display" window, which shows a live video feed of birds on a cliff.
- Testing setting:** This section is located in the bottom right of the main window and includes "Test Target Tolerance Parameters Setting" (with fields for Pixel Error, Macroblock Error, Max. Pixel Error, Max. Macroblock Error, Frame Dropping Tolerance, and Max. Frame Dropping Per Second), "Testing Process Setting" (with options for Set 1st Section To Start Test, Test Stop By, Set Test Period, and Set Total Number Of Sections To Test), and a "Save Test Log Data" checkbox.
- Test action / status:** On the right side, there is a "Test Action" panel with a "Start Test" button and a "Test Result Count: #1" indicator. Below this is a large green area displaying the test results, and at the bottom, a large green box with the word "Pass" in green text.

Callouts from the labels above point to these specific areas: "Benchmark file setting" points to the left panel; "Video Source setting" points to the top of the captured display; "Captured display" points to the video feed; "Test action / status" points to the right panel; "Testing setting" points to the bottom right configuration area; and "Test result" points to the "Pass" status box.

STREAMING/RECORDING APPLICATION

Streaming/Recording Application

Product Application:

Campus broadcasting

Requirements:

Watch public television channels for free.

Save money on purchasing devices and maintenance costs.

Minimize the number of manpower requirement.

Provide the modern digital connectivity and support for higher resolutions required.

No worry about the bandwidth limitations.

Product Offering:

Dual HDMI/3G-SDI HEVC 1080p60

4Kp60 HEVC Decoder

Multi-I/O Converter Box

Wireless Teacher Microphone Dual Mic

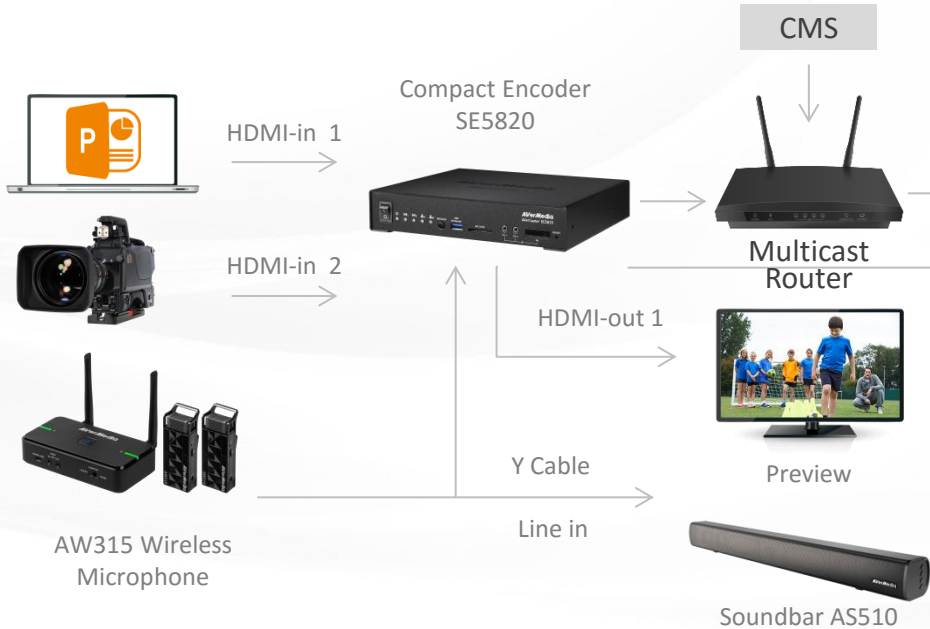




Audiovisual Solutions in K-12 and Higher Education



Media Center



Classroom



Classroom or Home

AI APPLICATION

AI Application

Product Application:

Automatic video matting

Requirements:

Customized hardware driver.

Customized MCU firmware.

Calculate user's usage time.

Support various video sources.

Improved performance and flexibility for time to market.

Product Offering:

AI Carrier Board/Box PC with NVIDIA Modules

AI Carrier Board/Box PC with Various Video Sources

AI Box PC Fanless and with Fans

Mini-PCIe/M.2 Capture Card



Software and Service Highlights for AI Applications



BSP Services

For Jetson TK1/TX1/TX2/TX2i/Xavier system
Design customization
Based on L4T
Support EtherCAT and Wi-Fi card
Rich software tools for production



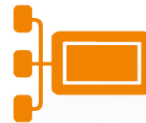
Deep Learning Tools

TensorRT
cuDNN
OpenCV4Tegra
Video analysis engines (optional)
Consulting services for development



Services

Video/Audio capture
H264/HEVC hardware accelerated encoding
Rich streaming protocols
Rich recording formats
Image processing libraries and GPU accelerated



Capture Card Integration

L4T drivers and SDK support
Rich video resolutions up to 4K@30
Mini-PCIe/M.2
HDMI/SDI/Composite/VGA sources
Streaming SDK

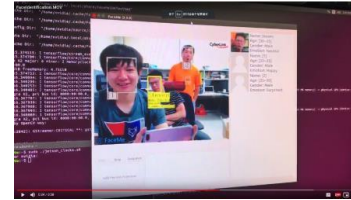
AI Application Smart Surveillance



Multi-channel Video Analytics



People Counting

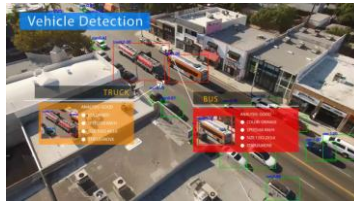


Face Identification

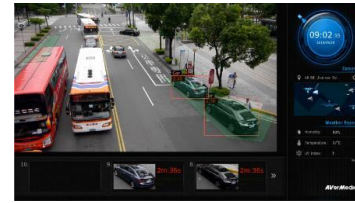
AI Application Smart City



Object Detection



UAV- Traffic Monitoring



Vehicle Recognition



Illegal Parking Detection



License Plate Recognition

Value Proposition



Speed



Service



Quality

An accountable service provider of in-house product design, verification, and manufacturing, who can support our clients to compensate their capacity and/or skill gaps, realize their innovative applications, and achieve the ultimate goals of time to market and time to volume.

We are Global Service Team



More Information

<https://www.avermedia.com/professional/>



Contact Us

BDM@avermedia.com

AVerMedia

Thank You