AVer Classroom
Technology

Product Catalog

AVer

We Advance Education

CHANGING THE WORLD ONE CLASSROOM AT A TIME

Every time we support a classroom, we honor our commitment to creating a brighter tomorrow for communities across the globe. This vision has been the cornerstone of our business since 2008 and has inspired us to provide award-winning educational technology solutions to thousands of institutions. We believe technology has the power to influence natural learning and innovation among our young communities, and the impact of today's technology determines the brightness of tomorrow.
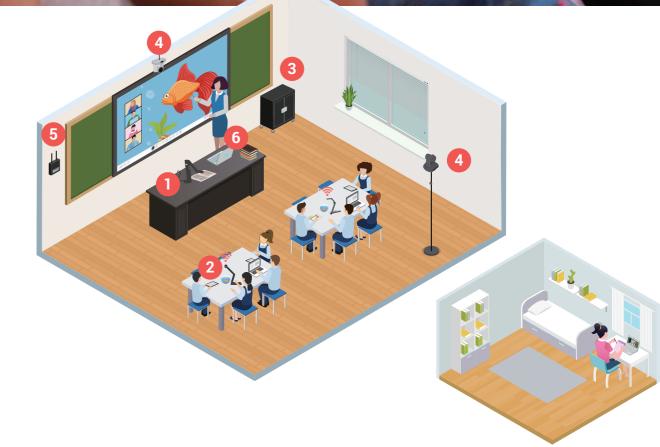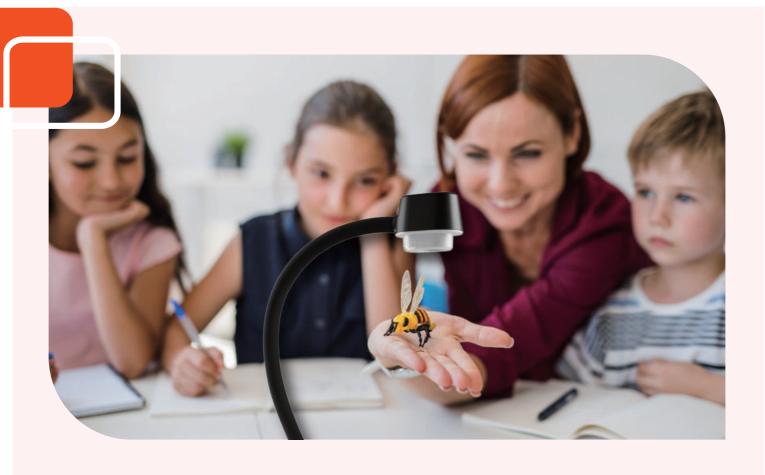
Classroom Technology Solutions

AVer Future Classroom

Create Online & Offline Environments

1. Visualizers
2. Wireless Visualizers
3. Charge & Sync Carts
4. Auto Tracking PTZ Cameras
5. Interactive Control Boxes
6. A+ Suite & AVerTouch Software

Visualizers

- Digitize All Kinds of Teaching Materials
- All-in-One for Presentations, Videos & Live Broadcasts
- Collaborative Learning with Classroom Software
- Distance Learning

The AVer document camera has been the best teaching tool I have ever used.

– Theresa Brown
Broadneck Elementary School Teacher

Visualizer Promo Video

Flexible Arm

The 360° flexible arm features high adjustability and mobility. Bend and adjust the gooseneck however you need to without missing a single detail. Plus, portable designs let you carry them anywhere to conveniently upgrade learning environments.

Flexible Arm Visualizer Solutions

F50-8M
- Full HD 1080p 60fps
- 8 Megapixels
- 204X Total Zoom (10X Optical Zoom)
- HDMI & VGA Output / Input

F17-8M
- Full HD 1080p 60fps
- 8 Megapixels
- 27.2X Total Zoom
- HDMI & VGA Output / Input

Mechanical Arm

A fully adjustable mechanical arm is robustly expandable and foldable. The rotatable lens enables teachers to capture images of both A3 documents and 3D models from multiple angles, greatly improving education quality.

M90UHD
- 4K Ultra HD 60fps
- 13 Megapixels
- 322X Total Zoom (14X Optical Zoom)
- HDMI & VGA Output / Input

M17-13M
- Full HD 1080p 60fps
- 13 Megapixels
- 35.2X Total Zoom
- HDMI & VGA Output / Input

M17-13M Intro Video

M15-13M
- 4K Ultra HD 60fps
- 13 Megapixels
- 23X Total Zoom
- HDMI Output

M11-8MV
- Full HD 1080p 60fps
- 8 Megapixels
- 20X Total Zoom
- HDMI & VGA Output

Wireless

5G 2.4G

Wireless visualizers support both wired and wireless image sharing, and they work as webcams for livestreaming. Also, they feature a high-endurance Li-ion battery so teachers can break space limitations and take learning anywhere.

TAIWAN
EXCELLENCE 2020

M70W

- 4K Ultra HD 60fps
- 13 Megapixels
- 230X Total Zoom
  (10X Optical Zoom)
- HDMI Output / Input

TECH&LEARNING
BEST
SHOW
AT ISTE 2019
WINNER

GOOD DESIGN
AWARD 2019

TAIWAN EXCELLENCE
GOLD AWARD 2020

M15W

- 4K Ultra HD 60fps
- 13 Megapixels
- 23X Total Zoom
- HDMI Output

M70W & M15W
Intro Video

USB

USB visualizers are easy to operate, allowing users to transmit images and videos on computers by simply plugging in a USB cable. Online teaching is much easier without complex installation steps and troublesome cables.

TAIWAN
EXCELLENCE 2019

U70+

- 4K Ultra HD 60fps
- 13 Megapixels
- 16X Total Zoom
- SuperSpeed USB 3.0 Output

U70+
Intro Video

U50

- Full HD 1080p 60fps
- 5 Megapixels
- 8X Total Zoom
- Mini USB 2.0 Output

AVer Classroom Software
Install Infinite Teaching Possibilities

Sphere2 (For Teachers)

Teachers can access the visualizer menu and operate teaching functions through laptops or tablets.

ClassSend (For Students)

Students can log into a virtual classroom to interact by receiving, editing, and sharing files.

**CaptiSphere
(For Teachers & Students)**

Teachers can easily edit videos, create materials, and give quizzes. Students can download the materials at any time.

AVerTouch

AVerTouch can one-touch connect AVer visualizers with mobile devices for content sharing. Users can sync to the cloud to automatically save annotated, captured, and recorded files. Teaching is incredibly fun when you use AVerTouch to engage with your students.

Charge & Sync Carts / Cabinet

- ✓ **Intelligent Charging Technology**
- ✓ **Safe & Stable Design**
- ✓ **Suitable for Different Mobile Devices**
- ✓ **Unrivaled Warranty**
- ✓ **Superb Training & Customer Service**

Charging Cart Promo Video

AC Charging

The intelligent charging system dynamically monitors different charging areas, automatically distributing electricity according to demand, centralizing the power in the lowest battery area and ensuring every device is efficiently charged.

C48i

UK SKU

- 48-Device Capacity
- Intelligent Charging Technology
- Adjustable Device Dividers
- Patented Cable-Clip Management

C36i+

US, EU & UK SKUs

- 36-Device Capacity
- Intelligent Charging Technology
- Smooth Slide-Out Shelves
- Adjustable Device Dividers
- Patented Cable-Clip Management

E24c

EU & UK SKUs

- 24-Device Capacity
- Cycle Charging Technology
- Streamlined Cable Management
- Space-Saving Design

E32c & E24c Intro Video

X12

EU SKU

- 12-Device Capacity
- Intelligent Charging Technology
- Stack Devices However You Want
- Adjustable Device Dividers
- Patented Cable-Clip Management

E32c

EU & UK SKUs

- 32-Device Capacity
- Cycle Charging Technology
- Streamlined Cable Management
- Space-Saving Design

C20i

US, EU & UK SKUs

- 20-Device Capacity
- Intelligent Charging Technology
- Adjustable Device Dividers
- Patented Cable-Clip Management

C20i Intro Video

USB Charging

Teachers can charge and sync data to mobile devices at the same time. The USB ports are installed at the front for easy plug-and-go charging.

C30u

- 30-Device Capacity
- DC 5V/2.1A Charging Power
- USB Ports at the Front
- Smooth Slide-Out Shelves

Interactive Control Box

5G 2.4G

Designed for high compatibility, the Interactive Control Box seamlessly integrates with your current TVs, IWBs, monitors, projectors, and visualizers. Now schools can build interactive learning environments on limited budgets.

The Hub of the Classroom

CB-310

- Android™ OS
- 4K Ultra HD
- AirPlay® & Miracast® ScreenShare
- 4-Way Screen Splitting
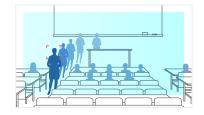- Multitasking Screen Splitting
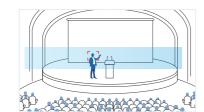- AVerShare Software

CB-310
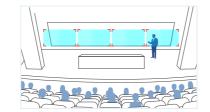Intro Video

Professional PTZ Cameras

Broadcast, stream, and record—all with one camera! Equipped with optical zooms and advanced AI tracking technology, Professional PTZ Cameras capture every detail of classrooms, auditoriums, stages, meeting rooms, and houses of worship.

≫ **Wide Area Tracking**
≫ **Presenter Mode**

≫ **Stage Tracking**

≫ **Segment Tracking**
≫ **Zone Mode**

Auto Tracking Cameras

PTC500S

- Full HD 1080p at 60fps
- 30X Optical Zoom
- Dual Lens Design
- No Extra Devices Needed
- Multi-Presenter Detection
- AI Tracking Modes:
  Wide Area/Stage/Segment Mode

TAIWAN EXCELLENCE 2019

PTC500S
Intro Video

PTC330U
PTC310U
PTC310H

- 4K Ultra HD 30fps
- 30X/12X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- AI Tracking Modes:
  Presenter/Zone Mode

PTC310

- Full HD 1080p at 60fps
- 12X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- AI Tracking Modes:
  Presenter/Zone Mode

PTC300 Series
Intro Video

PTZ Cameras

NDI® HX

PTZ330
PTZ310

- Full HD 1080p at 60fps
- 30X/12X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- AI Tracking Modes:
  SmartShoot/SmartFrame

PTZ330N
PTZ310N

TAIWAN EXCELLENCE 2019   TAIWAN EXCELLENCE 2020

PTZ330 & PTZ310
Intro Video

AVer EZLive Software

Supports Windows® and Mac® devices for annotation, video recording, streaming, and image capturing.

CL01

- Pan/Tilt/Zoom Speed Control
- Control 255 PTZ Cameras
- Multiple Control Interfaces
- VISCA/Pelco-D/Pelco-P

TECHNOLOGY PARTNERS

AVerMedia   CRESTRON   Extron.

echo   KALTURA   NewTek

telestream   vMix   zoom

Visualizer Comparison Chart

Model	F50-8M	F17-8M	M90UHD	M17-13M	M15-13M	M11-8MV	M70W	M15W	U70+	U50
Type	Flexible		Mechanical				Mechanical & Wireless		USB	
Sensor (MP)	8	8	13	13	13	8	13	13	13	5
Wireless Connectivity	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗
Digital Zoom	20.4X	27.2X	23X	35.2X	23X	20X	23X	23X	16X	8X
Optical Zoom	10X	1X	14X	1X	1X	1X	10X	1X	1X	1X
Max Display Resolution	1080p	1080p	4K	1080p	4K	1080p 3168 x 2376 (USB)	4K	4K	4K	1080p
Shooting Area	Larger than A4	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3
Max FPS	60fps	30fps	60fps	60fps	60fps	60fps	60fps	60fps	60fps	30fps
External Storage	SD / USB	SD / USB	SD / USB	SD / USB	✗	Micro SD / USB	USB	✗	✗	✗
USB to PC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Webcam Support (UVC)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Built-in MIC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Speaker Out	✓	✓	✓	✓	✗	✗	✗	✗	✗	✗
One Touch Recording	✓	✓	✓	✓	✗	✓	✓	✗	✗	✗
Onboard Annotation	✓	✗	✗	✓	✗	✓	✗	✗	✗	✗
HDMI	Out / In	Out / In	Out / In	Out / In	Out	Out	Out / In	Out	✗	✗
VGA	Out / In	Out / In	Out / In	Out / In	✗	Out	✗	✗	✗	✗
RS-232	✓	✗	Optional	✗	✗	✗	✗	✗	✗	✗
Remote Control	✓	✓	✓	✓	✗	✗	✓	✗	✗	✗
Rechargeable Battery	✗	✗	✗	✗	✗	✗	✓	✓	✗	✗
Warranty	5 Years	5 Years	5 Years	5 Years	3 Years	3 Years	5 Years	3 Years	2 Years	2 Years

Cart / Cabinet Comparison Chart

Model	C48i	C36i+	E32c	E24c	C20i	X12	C30u
Type	AC Charging						USB Charging
Device Capacity	48	36	32	24	20	12	30
Supported Devices	Up to 14"	Up to 15"	Up to 14"	Up to 14"	Up to 16"	Up to 15"	All USB Charged
Slot Dimensions (W x D x H) mm	32 x 350 x 235	36 x 380 x 260	26 x 367 x 301	32 x 367 x 301	36 x 419 x 330	34 x 419.1 x 304.8	34 x 380 x 225
Cart Dimensions (W x D x H) mm	870 x 600 x 1070	790 x 634 x 1070	640 x 632 x 1039	640 x 632 x 1039	688 x 637 x 1060	614 x 483 x 448	686 x 637 x 1037
LED Indicator Lights	✓	✓	✗	✗	✓	✗	✓ (Individual)
Sync/Charging	Charging	Charging	Charging	Charging	Charging	Charging	Sync / Charging
Power Management	Adaptive Intelligent Charging	Adaptive Intelligent Charging	Smart Cycle AC Charging	Smart Cycle AC Charging	Self-monitoring, Smart AC Charging	Smart AC Charging	USB Hub
Cable Management	✓	✓	✓	✓	✓	✓	✓
Individual AC Adapter Compartments	✓	✓	✓	✓	✓	✓	✗
Shelves	Fixed	Sliding	Fixed	Fixed	Fixed	Fixed	Sliding
Net Weight	92.9 kg (204.8 lbs)	80 kg (176.4 lbs)	52 kg (114.64 lbs)	50 kg (110.23 lbs)	65.6 kg (145 lbs)	22.5 kg (49.60 lbs)	76 kg (168 lbs)
External Power Outlets	2	2	✗	✗	2	✗	2
Warranty	Mechanical: 10 Years ; Electrical: 5 Years						

Specifications may vary depending on location and are subject to change without notice.

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Interactive Control Box Specifications

Model	CB-310
Operating System	Android™ 7.1
RAM	4 GB DDR3
ROM	8 GB / 32 GB (optional)
CPU	Dual-Core ARM Cortex-A72 1.8 GHz Processor, Four-Core ARM Cortex-A53 1.4 GHz Processor
GPU	ARM Mali-T860MP4
LED Indicator	Green: Power On, Red: Standby, Off: Power Off
Video Input	Select Through Menu with Preview
Resolutions	Output: Up to 4K at 60fps (Android™ only) ScreenShare: Up to 1080p
Auto Resolution Detection	Yes
Codec	H.264: 4K / 2K at 30fps Decoder VP9
Wireless Band	2.4 & 5 GHz
Wireless Connectivity	802.11n & 802.11ac MIMO
Wireless Standard	AC1200
Wireless Speed	860 Mbps
Android™ Hotspot	Up to 10 Users
External USB Camera Support	Yes (USB 3.0, USB 2.0 UVC)
Communication Protocol	RS-232
Network Connectivity	Gigabit / 10 / 100 Base-T Lan (WOL included)
Bluetooth®	Bluetooth® 4.2
Operation Environment	Relative Humidity: ≤ 80% Operating Climate: 0° to 40°C and higher Storage Climate: -10° to 60°C
Inputs	HDMI 2.0 x 3, VGA x 1, USB 2.0 Type-A x 1, USB 3.0 Type-A x 1, 3.5 mm x 1 (Audio), 3.5 mm x 1 (Microphone), IR x 1, RS-232 x 1
Outputs	HDMI x 2, Touch USB Type-B x 1, 3.5 mm x 1 (Audio), RS-232 x 1
Power	12V / 4A
Wall Mount	Yes
Buttons	Power, Mode, Volume Up, Volume Down, Source
Certification	CE, FCC, BSMI, NCC
Dimensions (W x D x H)	15.4 x 19.0 x 3.3 cm
Net Weight	2.7 ± 0.1 kg
Warranty	3 Years

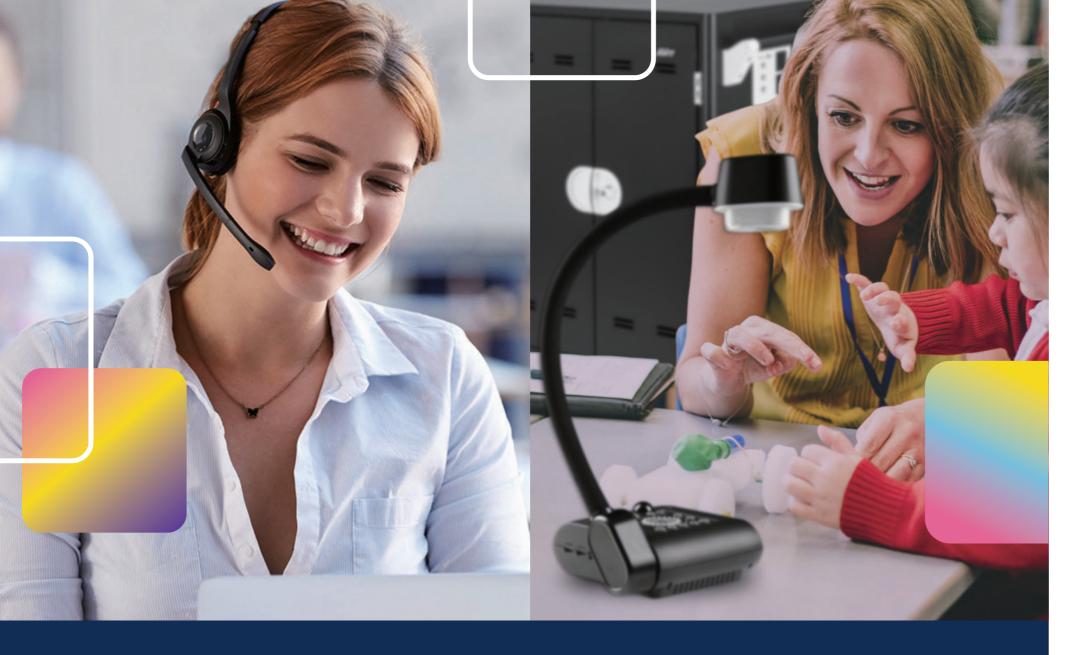*Specifications may vary depending on location and are subject to change without notice.*

Professional PTZ Camera Comparison Chart

Model	PTC500S	PTC330U	PTC310U PTC310H	PTC310	PTZ330N PTZ330	PTZ310N PTZ310
PTZ Camera						
Effective Picture Elements	2 Megapixels CMOS	8 Megapixels CMOS	8 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS
Output Resolution	Full HD 1080p 60fps	4K 30fps	4K 30fps	Full HD 1080p 60fps	Full HD 1080p 60fps	Full HD 1080p 60fps
Optical Zoom	30X	30X	12X	12X	30X	12X
HFOV	67° (Wide) to 2.3° (Tele)	68° (Wide) to 2.8° (Tele)	70° (Wide) to 6° (Tele)	70° (Wide) to 6° (Tele)	67° (Wide) to 2.3° (Tele)	72.5° (Wide) to 6.3° (Tele)
Panoramic Camera						
Effective Picture Elements	2 Megapixels CMOS	—	—	—	—	—
Output Resolution	Full HD 1080p 60fps	—	—	—	—	—
HFOV	110°	—	—	—	—	—
Camera						
Pan/Tilt Rotation	Pan: ±175 Tilt: +90°/-30°	Pan: ±170° Tilt: +90°/-30°	Pan: ±170° Tilt: +90°/-30°	Pan: ±170° Tilt: +90°/-30°	Pan: ±170° Tilt: +90°/-30°	Pan: ±170° Tilt: +90°/-30°
Pan/Tilt Speed	2° to 50°/sec	0.1° to 100°/sec	0.1° to 100°/sec	0.1° to 100°/sec	0.1° to 100°/sec	0.1° to 100°/sec
Preset Speed	160°/sec	200°/sec	200°/sec	200°/sec	200°/sec	200°/sec
Output Interfaces	3G-SDI HDMI IP	3G-SDI HDMI IP USB	PTC310U: 3G-SDI, HDMI, IP, USB PTC310H: HDMI, IP, USB	3G-SDI HDMI IP USB	3G-SDI HDMI IP USB	3G-SDI HDMI IP USB
USB Video Formats	—	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	YUV, MJPEG, H.264	YUV, MJPEG, H.264
UVC	—	UVC1.1	UVC1.1	UVC1.1	UVC1.1	UVC1.1
UAC	—	UAC1.0	UAC1.0	UAC1.0	UAC1.0	UAC1.0
Control Interfaces	RS-232, IP	RS-232, RS-422, IP	RS-232, RS-422, IP	RS-232, RS-422, IP	RS-232, RS-422, IP	RS-232, RS-422, IP
Network Protocols	IPv4, TCP, UDP, ARP, IMCP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP, ONVIF, VISCA over IP					
Control Protocols	VISCA, Pelco-D, Pelco-P, CGI					
NDI® HX	—	Yes	Yes	Yes	Yes (only PTZ330N)	Yes (only PTZ310N)
Auto Tracking Modes	Wide Area Mode Stage Mode Segment Mode	Presenter Mode Zone Mode	Presenter Mode Zone Mode	Presenter Mode Zone Mode	SmartFrame SmartShoot	SmartFrame SmartShoot
Warranty	Camera: 3 Years ; Accessories: 1 Year					

Specifications may vary depending on location and are subject to change without notice.

Product Warranty & Customer Service
20+ Years of Experience!

AVer delivers product design, R&D, and manufacturing, and a full warranty. Be confident in our product quality and enjoy timely service.

AVer Takes Care of Customers:

- Installation & Operation Services
- Technical Support
- Customized Trainings

✉ **IPE.Sales@aver.com**

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