AVer

Product Catalog

AVer Classroom Technology

We Advance Education

G **oogle for Education Partner**

G **Google Cloud Partner**

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.
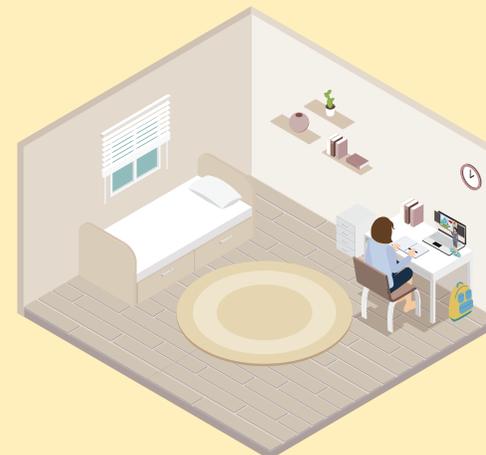
AVer Future Classroom

Create Online & Offline Environments

1. Visualizers
2. Wireless Visualizers
3. A+ Suite & AVerTouch Software
4. Charge, Disinfect & Sync Carts/Stations
5. Distance Learning & Auto Tracking PTZ Cameras
6. Streaming Audio Systems

Classroom Technology Solutions

VISUALIZERS

√ *Digitize All Kinds of Teaching Materials*

√ *All-in-One for Presentations, Videos & Live Broadcasts*

√ *Collaborative Learning with Classroom Software*

√ *Distance Learning & Hybrid Classrooms*

Visualizer
Promo Video

An all-purpose camera combines visualizer functions with a video camera.The compact design incorporates the camera, microphone, and speaker, ensuring convenient and effective teaching and learning in any context, even a hybrid class or mobile learning. Dual ports, HDMI & USB, make connecting to a laptop and display hassle-free. Connect and go. A fully customized digital learning experience is one tap away.

A30

- 4K Ultra HD 60fps
- 13 Megapixels
- 23X Total Zoom
- HDMI & USB Output
- Built-in Mic & Speaker
- 2nd Camera Support

A30
Intro Video

All-In-One

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

M90UHD
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

TAIWAN
EXCELLENCE 2021

M11-8MV
Intro Video

M5

- 3264 x 2448 (8M)
- 8 Megapixels
- 16X Total Zoom (via AVerTouch)
- USB 2.0 Output

TAIWAN
EXCELLENCE 2022

M5
Intro Video

Wireless

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 imitations and take learning anywhere.

M70W & M15W
Intro Video

M70W

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

TAIWAN EXCELLENCE 2020

M15W

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

TECH & LEARNING BEST SHOW AT ISTE 2019 WINNER

GOOD DESIGN AWARD 2019

TAIWAN EXCELLENCE GOLD AWARD 2020

F50+

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

F17+

- 4K Ultra HD 60fps
- 13 Megapixels
- 23X Total Zoom
- HDMI & VGA Output / Input

TECH & LEARNING EXCELLENCE BACK TO SCHOOL PRIMARY EDUCATION WINNER

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.

F17+ & F50+
Intro Video

Flexible Arm

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.

U70i

- 4K Ultra HD 30fps
- 13 Megapixels
- 16X Total Zoom
- USB 2.0 Output

U70i
Intro Video

U50+

- 3264 x 2448 (8M)
- 8 Megapixels
- 16X Total Zoom
- Mini USB 2.0 Output

U50+
Intro Video

Google Cloud Partner

Google for Education Partner
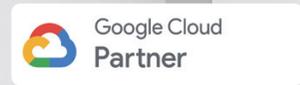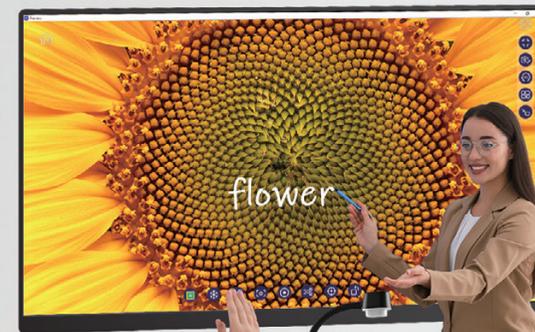
AVer Classroom Software

Install Infinite Teaching Possibilities

CaptureShare

Teachers can easily record video, live stream, and capture still images during class to rich collaborative experience.

AVerTouch

AVerTouch can one-touch connect AVer visualizers with mobile devices for content sharing. Teachers can sync to the cloud to automatically save annotated, captured, and recorded files.

AVerTouch &
Google Classroom
Video

CHARGING CARTS

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

Charging Cart
Promo Video

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.

C36i+

US, EU & UK SKUs

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

Designed for
Microsoft Surface

C20i

US, EU & UK SKUs

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

C20i
Intro Video

AC Charging

USB Charging

E32c+
E24c+

EU & UK SKUs

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

E32c & E24c
Intro Video

E12

US, EU & UK SKUs

- 12-Device Capacity
- Fully Charging Technology
- DIY Charging Station
- Adjustable Device Dividers
- Patented Cable-Clip Management

E12
Intro Video

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+

USB Type-C

- 30-Device Capacity
- DC 5V 3A Charging Power
- 1 USB Port for 1 Device
- Smooth Slide-Out Shelves

STREAMING AUDIO SYSTEM

Streaming Audio Systems are all-in-one audio solutions that amplify the teacher's voice, ensuring that every student can hear discussions clearly while promoting active participation.

SA-A5

- Public Address System integration allows for the automatic muting of the mic to prevent loud audio disruptions from interfering audio sources.
- Support remote and hybrid learning by providing clear communication.
- Work with various devices, enabling personalized learning experiences.
- Ensure every student in the classroom hears the teacher's voice clearly.
- Ensure all students can participate fully in class discussions.

DISTANCE LEARNING TRACKING CAMERAS

Perfect for distance learning and hybrid classrooms. Simple controls and plug-and-play connectivity are the biggest advantages and ideal for installing in every classroom. Teachers can present freely onstage while livestreaming so students can learn no matter where they are.

DL30 USB Type-B

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

Certified for ClickShare Conference BARCO

zoom Certified

TAIWAN EXCELLENCE 2022

DL30 Intro Video

DL10 USB Type-B

- Full HD 1080p at 60fps
- 3X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- Built-in Microphones
- Gesture Control AI
- AI Auto Tracking Modes: Presenter/Zone/Hybrid Mode

Certified for ClickShare Conference BARCO

zoom Certified

DL10 Intro Video

PRO AV 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, conference rooms, and houses of worship.

Voice Tracking Partners

audio-technica | biamp. | ClearOne® | nüreva

SENNHEISER | SHURE | YAMAHA Make Waves

Pro AV Strategic Partners

AIRTAME | ATEN | Audinate® | AVerMedia | BARCO

BOSCH | CRESTRON | Dante AV-H™ | echo360 | Extron®

KALTURA | Lenovo | LINDY CONNECTION PERFECTION | Microsoft Teams | NDI

NETGEAR® | NewTek™ | Panopto™ | Q-SYS TECHNOLOGY PARTNER | SCT Connect™ Partner

SRT ALLIANCE SECURE RELIABLE TRANSPORT | telestream | vivitek | vMix | XILICA® | zoom

TR335
TR335N NDI HX
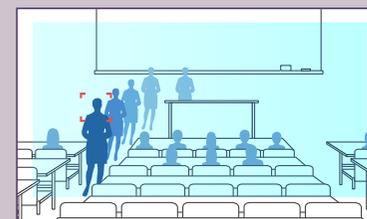## TR315
TR315N NDI HX

- 4K Ultra HD 60fps
- 30X/12X Optical Zoom
- NDI® HX Compatible*
- AI Auto Tracking Modes: Presenter/Zone/Hybrid
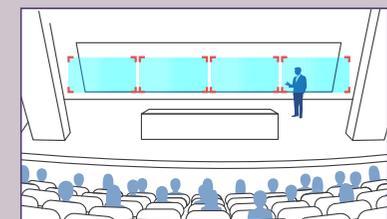
* TR335N / TR315N only

TR211

- Full HD 1080p 60fps
- 12X Optical Zoom
- License Upgrade to NDI® in 2024Q2
- AI Auto Tracking Modes: Presenter/Zone/Hybrid

**Wide Area Mode
Presenter Mode**

**Segment Mode
Zone Mode**

License Upgrade
to NDI®

PTC310UV2

- 4K Ultra HD 30fps
- 12X Optical Zoom
- License Upgrade to NDI®
- AI Auto Tracking Modes:
  Presenter/Zone/Hybrid

ZOOM Certified
Certified for Microsoft Teams
Certified ClickShare Conference BARCO

TR535
TR535N FULL NDI

- 4K Ultra HD 60fps
- 30X Optical Zoom
- Dual Lens Design
- Full NDI® Compatible*
- AI Auto Tracking Modes:
  Presenter/Zone/Hybrid/Segment

* TR535N only
** Available in 2024Q2

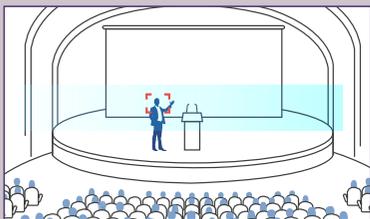## PTC500+

- Full HD 1080p 60fps
- 30X Optical Zoom
- Dual Lens Design
- Multi-Presenter Detection
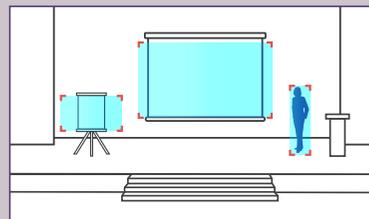- AI Auto Tracking Modes:
  Wide Area/Stage/Segment

PTC115+

- Full HD 1080p 60fps
- 22X Optical Zoom
- Dual Lens Design
- Multi-Presenter Detection
- AI Auto Tracking Modes:
  Wide Area/Stage/Segment

PTC500S
Intro Video

PTC115
Intro Video

Stage Mode

Hybrid Mode

License Upgrade
to NDI®

PTZ330UV2
PTZ330UNV2 NDI HX3

- 4K Ultra HD 60 fps
- 30X Optical Zoom
- NDI® HX3 Compatible*
- AI Functions: SmartShoot

* PTZ330UNV2 only

zoom Certified

Unified Certified

PTZ300V2
Intro Video

PTZ310UV2
PTZ310UNV2 NDI HX3

- 4K Ultra HD 60 fps
- 12X Optical Zoom
- NDI® HX3 Compatible*
- AI Functions: SmartShoot

* PTZ310UNV2 only

zoom Certified

2023 BEST OF SHOW InfoComm SOUND & VIDEO CONTRACTOR WINNER

2023 rave [PUBS] award winner

TAIWAN EXCELLENCE 2024

PTZ231
PTZ211

- Full HD 1080p 60fps
- 30X/12X Optical Zoom
- License Upgrade to NDI®
  in 2024Q2
- AI Functions: SmartShoot

PTZ Camera Controller

CL01

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

Value-added Software

CaptureShare

PTZ Control Panel

PTZ Link

PTZ Management

OBS Plugin for PTZ Cameras

MATRIX TRACKING BOXES

Step into the future of audio-visual mastery with AVer's Matrix Tracking Box. This cutting-edge multimedia marvel redefines the game by effortlessly integrating content from multiple sources on a unified platform. Whether it's meetings, training sessions, or classrooms, AVer's Matrix Tracking Box delivers the epitome of high-tech multimedia management.

MT300
MT300N NDI HX

- 4K Ultra HD 60 fps
- Support NDI®HX3 Cameras Inputs
- View 4 Live Videos
- Built-in PTZ Link Premium for Voice-based Tracking
- Multiple Inputs/Outputs
- NDI®HX Video Outputs*

* MT300N only

MT300(N)
Intro Video

Visualizers

Model	A30	M90UHD	M15-13M	M11-8MV	M5
Type	All-In-One	Mechanical			
Sensor (MP)	13	13	13	8	8
Wireless Connectivity	✗	✗	✗	✗	✗
Digital Zoom	23X	23X	23X	20X	16X
Optical Zoom	1X	14X	1X	1X	1X
Max Display Resolution	4K	4K	4K	1080p, 3168 x 2376 (USB)	3264 x 2448 (8M)
Shooting Area	Larger than A3	Larger than A3	Larger than A3	Larger than A3	Larger than A3
Max FPS	60fps	60fps	60fps	60fps	Full HD 1080p at 60fps, 3264 x 2448 at 15fps
External Storage	USB	SD / USB	✗	Micro SD / USB	✗
USB to PC	✓	✓	✓	✓	✓
Webcam Support (UVC)	✓	✓	✓	✓	✓
Built-in MIC	✓	✓	✓	✓	✓
Line Out	✗	✓	✗	✗	✗
Built-in Speaker	✓	✗	✗	✗	✗
One-touch Recording	✓ (Remote Control)	✓	✗	✓	✗
Onboard Annotation	✗	✗	✗	✓	✗
HDMI	Out	Out / In	Out	Out	✗
VGA	✗	Out / In	✗	Out	✗
RS-232	✗	Optional	✗	✗	✗
Remote Control	✓	✓	✗	✗	✗
Rechargeable Battery	✗	✗	✗	✗	✗
Warranty	5 Years	5 Years	3 Years	5 Years	1 Year

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

M70W	M15W	F50+	F17+	U70i	U50+
Mechanical & Wireless		Flexible		USB	
13	13	13	13	13	8
✓	✓	✗	✗	✗	✗
23X	23X	23X	23X	16X	16X
10X	1X	10X	1X	1X	1X
4K	4K	4K	4K	4K	3264 x 2448 (8M)
Larger than A3	Larger than A3	Larger than A4	Larger than A3	Larger than A3	Larger than A3
60fps	60fps	60fps	60fps	Full HD 1080p at 60fps, 4K at 30fps	Full HD 1080p at 60fps, 3264 x 2448 at 15fps
USB	✗	SD / USB	SD / USB	✗	✗
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✗	✗	✓	✓	✗	✗
✗	✗	✗	✗	✗	✗
✓	✗	✓	✓	✗	✗
✗	✗	✗	✗	✗	✗
Out / In	Out	Out / In	Out / In	✗	✗
✗	✗	Out / In	Out / In	✗	✗
✗	✗	✓	✗	✗	✗
✓	✗	✓	✓	✗	✗
✓	✓	✗	✗	✗	✗
5 Years	3 Years	5 Years	5 Years	2 Years	2 Years

Charging Carts

Model	C36i+	C20i	E32c+ / E24c+	E12	C30u+
Type	AC Charging				USB Charging
Device Capacity	36	20	E32c+: 32 E24c+: 24	12	30
Supported Devices	Up to15"	Up to 16"	Up to 15.6"	Up to 15.6"	All USB Charged
Slot Dimensions (W x D x H)	36 x 380 x 260 mm	36 x 419 x 330 mm	E32c+: 26 x 320 x 420 mm E24c+: 26 x 320 x 420 mm	30 x 426 x 311 mm	34 x 380 x 225 mm
Cart Dimensions (W x D x H)	790 x 634 x 1070 mm	688 x 637 x 1060 mm	640 x 632 x 1039 mm	527 x 453 x 445 mm	637 x 686 x 1037 mm
LED Indicator Lights	✓	✓	✗	✗	✓ (Individual)
Charging/Sync/Disinfection	Charging	Charging	Charging	Charging	Charging/Sync
Power Management	Adaptive Intelligent Charging	Self-monitoring, Smart AC Charging	Smart Cycle AC Charging	Smart AC charging	USB Type-C
Cable Management	✓	✓	✓	✓	✓
Individual AC Adapter Compartments	✓	✓	✓	✗	✗
Shelves	Sliding	Fixed	Fixed	Fixed	Sliding
Net Weight	80 kg (176.4 lbs)	65.6 kg (145 lbs)	E32c+: 52 kg (114.64 lbs) E24c+: 50 kg (110.23 lbs)	17 kg (37.48 lbs)	76 kg (168 lbs)
External Power Outlets	2	2	✗	✗	2
Warranty (Mechanical / Electrical)	10 yr / 5 yr	10 yr / 5 yr	10 yr / 5 yr	10 yr / 5 yr	10 yr / 5 yr

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

Streaming Audio System

Model			SA-A5
Streaming Auido Box		**Speakers**	
Power Requirement	AC 100 - 240V to DC 19V / 3.42A	**Total Harmonic Distortion (THD)**	< 1% (1 KHz)
Power Consumption	65 W	**Frequency Response**	88 Hz to 25 KHz ± 3 dB
Audio Output Power	30 W RMS (15 W per channel) 65 W Peak (<1% THD 50 Hz to 15 KHz)	**Sensitivity/SPL**	88 dB SPL 1 W/1 m
		Impedance	6Ω nominal
Dimensions (W x D x H)	210 x 110 x 48.5 mm	**Mounting**	Wall mount
Net Weight	530 g	**Dimensions (W x D x H)**	250 x 155 x 170 mm
Power Button	Solid green: power on Solid red: standby mode (when connecting to power)	**Net Weight**	4.75 kg (10.47 lbs)
		Microphones	
LED Indicator	Solid blue: microphone(s) paired Off: microphone(s) not paired	**Wearing Type**	Clip / lanyard
		Transmission Type	Wireless
Input/Output	• PC: USB Type - C • ALD (Assistive Listening Device): 3.5 mm Stereo for assistive listening devices • Mic in: 3.5 mm Mono • UAC: USB 2.0 Type - A • Audio in: 3.5 mm Stereo • Line out: 3.5 mm Stereo • Speaker out: speaker push - in terminal connector block • Ethernet • Page mute port	**Transmitting Frequency**	2.4 GHz
		Frequency Response	50 Hz to 20 KHz
		Microphone	Omni-directional
		Battery Power	3.7 V
		Battery Life	8 to 10 hours (fully charged)
		Battery Type	Li - ion (rechargeable & removable)
		Operating Range	20 m (65 ft)
Kensington Lock	Yes	**Volume Control**	Up / down buttons
Storage Conditions	Temperature: - 30°C to + 60°C Humidity: - 10% to 90%	**Safety Alert**	SOS Button (Teacher Microphone Only)
		Input/Output	Mic in: 3.5 mm Mono USB 2.0 Type - C
Operating Conditions	Temperature: 0°C to + 40°C Humidity : 10% to 90%	**Dimensions (W x D x H)**	Microphone: 73.3 x 33.0 x 20.2 mm Receiver: 55 x 10 x 30 mm
Speakers			
Power Output	15 W RMS each	**Net Weight**	35 g
Warranty	SAA5: 5 Years, Accessories: 1 Year		

Distance Learning Cameras

Model	DL30	DL10
Camera		
Effective Picture Elements	2 Megapixels CMOS	
Output Resolution	Full HD 1080p 60fps	
Optical Zoom	12X	3X
HFOV	76.5° (Wide) to 6.8° (Tele)	82° (Wide) to 31.7° (Tele)
Pan/Tilt Rotation	Pan: ± 170°, Tilt: ± 90°	
Pan/Tilt Speed	Pan: 1° to 90°/sec, Tilt: 7.85° to 45°/sec	Pan: 1° to 100°/sec, Tilt: 10.8° to 100°/sec
Preset Speed	Pan: 120°/sec, Tilt: 110.84°/sec	Pan: 200°/sec, Tilt: 200°/sec
Output Interfaces	IP, USB	
USB Video Formats	MJPEG, YUY2	
UVC	UVC 1.1	
UAC	UAC 1.0	
Control Interfaces	IP, USB	
Network Protocols	Pv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP	
Control Protocols	VISCA (IP), CGI (IP), USB	
Auto Tracking Modes	Presenter Mode, Zone Mode, Hybrid Mode	
Gesture Control	Tracking Control: Tracking On/Off, Full/Upper Body, Camera Control: Zoom In/Out	
Protection Modes	Privacy Mode, Sleep Mode	
Microphones		
Built-in Microphones	—	2 (Omnidirectional)
Noise Suppression	—	Yes
Pickup Range	—	5 m
Sensitivity	—	-33 dBFS
Frequency Response	—	30 Hz to 20 KHz
Maximum SPL	—	129 dB SPL at 0.5 m
Warranty	Camera: 3 Years, Accessories: 1 Year	

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

Pro AV Cameras

Model	TR335 TR335N	TR315 TR315N	TR211	PTC330UV2	PTC320UV2 PTC320UNV2
PTZ Camera					
Effective Picture Elements	8 Megapixels Exmor CMOS	8 Megapixels Exmor CMOS	2 Megapixels Exmor CMOS	8 Megapixels Exmor CMOS	8 Megapixels Exmor CMOS
Output Resolution	4K 60fps	4K 60fps	Full HD 1080p 60fps	4K 30fps	4K 30fps
Optical Zoom	30X	12X	12X	30X	21X
HFOV	62.3° (Wide) to 2.5° (Tele)	72.8° (Wide) to 6.7° (Tele)	72.8° (Wide) to 6.7° (Tele)	65.1° (Wide) to 2.34° (Tele)	52.26° (Wide) to 2.66° (Tele)
Panoramic Camera					
Effective Picture Elements	—	—	—	—	—
Output Resolution	—	—	—	—	—
HFOV	—	—	—	—	—
Camera Operation					
Pan/Tilt Rotation	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	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	200°/sec	200°/sec	200°/sec	200°/sec	200°/sec
Output Interfaces	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB
USB Video Formats	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2
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 (DIN8), RS-422 (RJ45), IP, USB				
Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP				
Control Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP), USB, ONVIF				
NDI® HX	NDI® HX2 (TR335N only)	NDI® HX2 (TR315N only)	License Upgrade	License Upgrade	NDI® HX2 (PTC320UNV2 only)
Auto Tracking Modes / AI Functions	Presenter Mode, Zone Mode, Hybrid Mode				
Warranty	Camera: 5 Years, Accessories: 1 Year				

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

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	PTC310UV2	PTC310HWV2	TR535 / TR535N	PTC500+	PTC115+
	8 Megapixels Exmor CMOS	2 Megapixels Exmor CMOS	8 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS
	4K 30fps	Full HD 1080p 60fps	4K 60fps	Full HD 1080p 60fps	Full HD 1080p 60fps
	12X	12X	30X	30X	22X
	70° (Wide) to 6° (Tele)	70° (Wide) to 6° (Tele)	62.3° (Wide) to 2.5° (Tele)	65° (Wide) to 2.3° (Tele)	65° (Wide) to 2.3° (Tele)
	—	—	8 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS
	—	—	4K 30fps	Full HD 1080p 60fps	Full HD 1080p 60fps
	—	—	110°	110°	110°
	Pan: ±170°, Tilt: +90°/-30°	Pan: ±170°, Tilt: +90°/-30°	Pan: ±170°, Tilt: +90°/-30°	Pan: ±175°, Tilt: +90°/-30°	Pan: ±175°, Tilt: +90°/-30°
	0.1° to 100°/sec	0.1° to 100°/sec	0.1° to 100°/sec	2° to 50°/sec	2° to 50°/sec
	200°/sec	200°/sec	200°/sec	160°/sec	160°/sec
	3G-SDI, HDMI, IP, USB	HDMI, IP, USB	3G-SDI, HDMI x 2, IP, USB	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB
	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2
	UVC1.1	UVC1.1	UVC1.1	UVC1.1	UVC1.1
	UAC1.0	UAC1.0	UAC1.0	UAC1.0	UAC1.0
	RS-232 (DIN8), RS-422 (RJ45), IP, USB			RS-232, IP, USB	RS-232, IP, USB
	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP			IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP, VISCA Over IP, ONVIF	
	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP), USB, ONVIF			VISCA (RS-232/IP), PELCO-D & PELCO-P (RS-232), CGI (IP)	
	License Upgrade	License Upgrade	Full NDI® (TR535N only)	—	—
	Presenter Mode, Zone Mode, Hybrid Mode		Presenter Mode, Zone Mode, Hybrid Mode, Segment Mode	Wide Area Mode, Stage Mode, Segment Mode	
	Camera: 5 Years, Accessories: 1 Year			Camera: 3 Years, Accessories: 1 Year	

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

Pro AV Cameras

Model	PTZ330UV2 PTZ330UNV2	PTZ310UV2 PTZ310UNV2	PTZ231 PTZ211
PTZ Camera			
Effective Picture Elements	8 Megapixels Exmor CMOS	8 Megapixels Exmor CMOS	2 Megapixels CMOS
Output Resolution	4K 60fps	4K 60fps	Full HD 1080p 60fps
Optical Zoom	30X	12X	30X / 12X
HFOV	62.3° (Wide) to 2.5° (Tele)	72.8° (Wide) to 6.7° (Tele)	30X: 62.3° (Wide) to 2.5° (Tele) 12X: 72.8° (Wide) to 6.7° (Tele)
Panoramic Camera			
Effective Picture Elements	–	–	–
Output Resolution	–	–	–
HFOV	–	–	–
Camera Operation			
Pan/Tilt Rotation	Pan: ±170°, Tilt: +90°/-30°	Pan: ±170°, Tilt: +90°/-30°	Pan: ±170°, Tilt: +90°/-30°
Pan/Tilt Speed	0.1° to 100°/sec	0.1° to 100°/sec	0.1° to 100°/sec
Preset Speed	200°/sec	200°/sec	200°/sec
Output Interfaces	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB	3G-SDI, HDMI, IP, USB
USB Video Formats	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2
UVC	UVC1.1	UVC1.1	UVC1.1
UAC	UAC1.0	UAC1.0	UAC1.0
Control Interfaces	RS-232, RS-422, IP, USB	RS-232, RS-422, IP, USB	RS-232, RS-422, IP, USB
Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP		
Control Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP), ONVIF		
NDI® HX	NDI® HX3 (PTZ330UNV2 only)	NDI® HX3 (PTZ310UNV2 only)	License Upgrade
Auto Tracking Modes / AI Functions	SmartShoot	SmartShoot	SmartShoot
Warranty	Camera: 5 Years, Accessories: 1 Year		

Matrix Tracking Box

Model	MT300 MT300N
Matrix Tracking Box	
Power requirement	AC 100 - 240V to DC 12V/1.5A
Power consumption	18W
Dimensions (W x D x H)	15.0 x 21.0 x 4.3 cm
Net weight	0.9 (± 0.1) kg
LED indicator: STATUS	Orange: power on Green: operating Green (flashing): firmware upgrading
LED indicator: USB	Green: connected and standby Green (flashing): UVC / UAC streaming
LED indicator: LAN	Green: connected
Resolution	Inputs: up to 1080p 60 fps Outputs: up to 4K 60 fps
Storage conditions	Temperature: -20°C to + 60°C Humidity: 20% to 95%
Operating conditions	Temperature: 0°C to + 50°C Humidity: 20% to 80%
Inputs	HDMI x 3, USB 2.0 Type-A x 3, RS-422 x 1 RJ-45 x 1, PoE+ x 1
Outputs	HDMI x 2, USB 3.0 Type-B x 2
Communication protocol	RS-422
PoE+	Yes, 42.5 V ~ 57V 0.6 A
NDI® HX	Yes (MT300N only)
Security	Kensington lock
Buttons	Power, Reset
Mounting bracket	Yes
Certification	CE, FCC, BSMI, NCC, IC, VCCI, UKCA, EAC
Warranty	5 Years

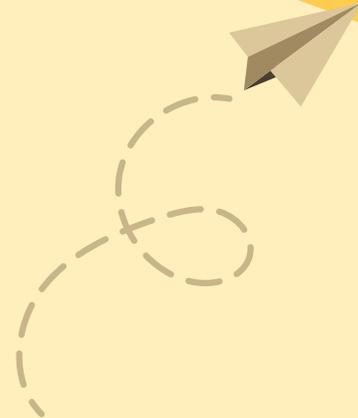** Specifications may vary depending on location and are subject to change without notice.*

AVer Takes Care of Customers:

- Installation & Operation Services

- Technical Support

- Customized Trainings

Distributor/Dealer