



# AVer Classroom Technology

Product Catalog



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.



## AVer Future Classroom

Create Online & Offline Environments

- 1 Visualizers
- 2 Wireless Visualizers
- 3 A+ Suite & AVerTouch Software
- 4 Charge, Disinfect & Sync Carts/Stations
- 5 Interactive Control Box
- 6 PTZ Cameras
- 7 Distance Learning & Auto Tracking Cameras



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



*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 30fps
- 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.

### 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



### 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**

### M5

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



**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 limitations and take learning anywhere.



### M70W

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



### 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.



### U70+

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



U70  
Intro Video

### U50

- Full HD 1080p 60fps
- 5 Megapixels
- 8X Total Zoom (via Software)
- 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.



### 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.





# Charge, Disinfect & Sync Carts / Cabinet

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



## 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



### C20i

- US, EU & UK SKUs
- 20-Device Capacity
  - Intelligent Charging Technology
  - Adjustable Device Dividers
  - Patented Cable-Clip Management



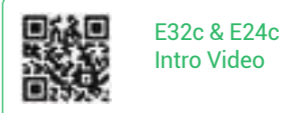
### X18iS

- US, EU & UK SKUs
- 18-Device Capacity
  - UVC Sterilization
  - Intelligent Charging Technology
  - Adjustable Device Dividers
  - Patented Cable-Clip Management



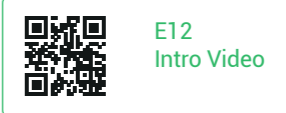
### E32c+ E24c+

- EU & UK SKUs
- 32 or 24-Device Capacity
  - Cycle Charging Technology
  - Streamlined Cable Management
  - Space-Saving Design



### E12

- US, EU & UK SKUs
- 12-Device Capacity
  - Fully Charging Technology
  - DIY Charging Station
  - Adjustable Device Dividers
  - Patented Cable-Clip Management



### X12

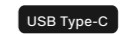
- EU SKU
- 12-Device Capacity
  - Intelligent Charging Technology
  - Stack Devices However You Want
  - Adjustable Device Dividers
  - Patented Cable-Clip Management



## 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 3A or 5V 2.1A Charging Power
- 1 USB Port for 1 Device
- Smooth Slide-Out Shelves



# Distance Learning Tracking Camera

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.



## Boost Your Distance Learning with Auto Tracking

### DL30 USB Type-B

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



DL30  
Intro Video



zoom  
Certified



### DL10 USB Type-B

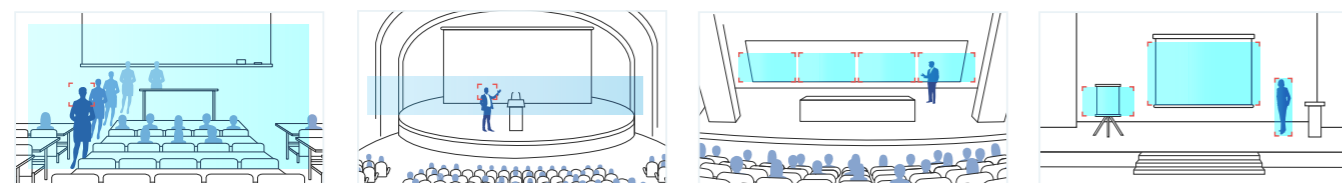
- Full HD 1080p at 60fps
- 3X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- Built-in Microphones
- Gesture Control AI
- AI Auto Tracking Functions: Presenter/Zone/Hybrid Mode



DL10  
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.



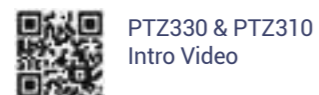
-  **Wide Area Mode**  
 **Presenter Mode**
-  **Stage Mode**
-  **Segment Mode**  
 **Zone Mode**
-  **Hybrid Mode**



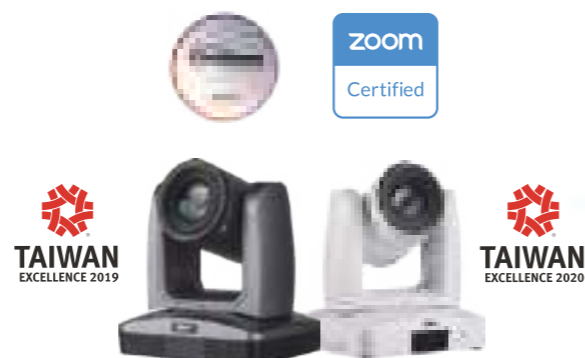
## PTZ Cameras

### PTZ330 PTZ330N NDI|HX PTZ310 PTZ310N NDI|HX

- Full HD 1080p at 60fps
- 30X or 12X Optical Zoom
- Upside-Down Installation
- AI Functions: SmartShoot/SmartFrame



PTZ330 & PTZ310 Intro Video



## Auto Tracking Cameras

### PTC115 PTC115+ USB Type-B

- Full HD 1080p at 60fps
- 15X Optical Zoom
- Dual Lens Design
- No Extra Devices Needed
- Multi-Presenter Detection
- AI Auto Tracking Functions: Wide Area/Stage/Segment Mode



### PTC310U PTC310UN NDI|HX PTC310H PTC310HN NDI|HX

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



\* PTC310H/PTC310HN has no 3G-SDI port.

### PTC310 PTC310N NDI|HX

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



PTC300 Series Intro Video

### PTC500S PTC500+ USB Type-B

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



PTC500S Intro Video

### PTC330 PTC330N NDI|HX

- Full HD 1080p at 60fps
- 30X Optical Zoom
- Upside-Down Installation
- No Extra Devices Needed
- AI Auto Tracking Functions: Presenter/Zone/Hybrid Mode

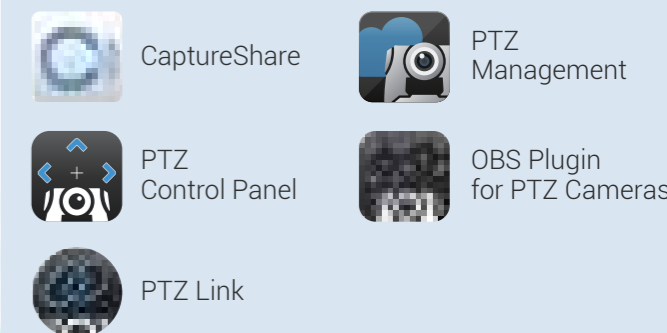


### CL01

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



## Value-added Software



\*\* PTZ330, PTZ330N, PTZ310, and PTC310U receive Barco Certified Certifications.  
 \*\*\* PTZ310, PTZ310N and PTC310N receive Zoom Rooms Certifications.

## TECHNOLOGY PARTNERS



## Visualizer Comparison Chart

Model	F50-8M	F17-8M	M90UHD	M17-13M	M15-13M	M11-8MV	M5	M70W	M15W	U70+	U50
Type	Flexible		Mechanical				Mechanical & Wireless		USB		
Sensor (MP)	8	8	13	13	13	8	8	13	13	13	5
Wireless Connectivity	X	X	X	X	X	X	X	✓	✓	X	X
Digital Zoom	20.4X	27.2X	23X	35.2X	23X	20X	16X	23X	23X	16X	8X
Optical Zoom	10X	1X	14X	1X	1X	1X	1X	10X	1X	1X	1X
Max Display Resolution	1080p	1080p	4K	1080p	4K	1080p 3168 x 2376 (USB)	3264 x 2448 (8M)	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	Larger than A3
Max FPS	60fps	30fps	60fps	60fps	60fps	60fps	Full HD 1080p at 60fps 3264 x 2448 at 15fps	60fps	60fps	60fps	30fps
External Storage	SD / USB	SD / USB	SD / USB	SD / USB	X	Micro SD / USB	X	USB	X	X	X
USB to PC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Webcam Support (UVC)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Built-in MIC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Speaker Out	✓	✓	✓	✓	X	X	X	X	X	X	X
One Touch Recording	✓	✓	✓	✓	X	✓	X	✓	X	X	X
Onboard Annotation	✓	X	X	✓	X	✓	X	X	X	X	X
HDMI	Out / In	Out / In	Out / In	Out / In	Out	Out	X	Out / In	Out	X	X
VGA	Out / In	Out / In	Out / In	Out / In	X	Out	X	X	X	X	X
RS-232	✓	X	Optional	X	X	X	X	X	X	X	X
Remote Control	✓	✓	✓	✓	X	X	X	✓	X	X	X
Rechargeable Battery	X	X	X	X	X	X	X	✓	✓	X	X
Warranty	5 Years	5 Years	5 Years	5 Years	3 Years	3 Years	1 Year	5 Years	3 Years	2 Years	2 Years

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

## Cart / Cabinet Comparison Chart

Model	C48i	C36i+	E32c+	E24c+	C20i	X18iS	E12	X12	C30u+
Type	AC Charging								USB Charging
Device Capacity	48	36	32	24	20	18	12	12	30
Supported Devices	Up to 14"	Up to 15"	Up to 15.6"	Up to 15.6"	Up to 16"	Up to 15"	Up to 15.6"	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	75 x 400 x 267	30 x 425 x 311	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	687 x 638 x 1070	527 x 453 x 445	614 x 483 x 448	637 x 686 x 1037
LED Indicator Lights	✓	✓	X	X	✓	✓	X	X	✓ (Individual)
Charging/Disinfection/Sync	Charging	Charging	Charging	Charging	Charging	Charging/Disinfection	Charging	Charging	Charging/Sync
Power Management	Adaptive Intelligent Charging	Adaptive Intelligent Charging	Smart Cycle AC Charging	Smart Cycle AC Charging	Self-monitoring, Smart AC Charging	Adaptive Intelligent Charging	Smart Cycle AC Charging	Smart AC Charging	USB Type-C
Cable Management	✓	✓	✓	✓	✓	✓	✓	✓	✓
Individual AC Adapter Compartments	✓	✓	✓	✓	✓	✓	X	X	X
Shelves	Fixed	Sliding	Fixed	Fixed	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)	66.3 kg (146.17 lbs)	17 kg (37.48 lbs)	22.5 kg (49.60 lbs)	76 kg (168 lbs)
External Power Outlets	2	2	X	X	2	2	X	X	2
Warranty	Mechanical: 10 Years ; Electrical: 5 Years								

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



## Distance Learning Camera Comparison Chart

Model	DL30 	DL10 
<b>Camera</b>		
<b>Effective Picture Elements</b>	2 Megapixels CMOS	2 Megapixels CMOS
<b>Output Resolution</b>	Full HD 1080p 60fps	Full HD 1080p 60fps
<b>Optical Zoom</b>	12X	3X
<b>HFOV</b>	76.5° (Wide) to 6.8° (Tele)	82° (Wide) to 31.7° (Tele)
<b>Pan/Tilt Rotation</b>	Pan: ±170° Tilt: ±90°	Pan: ±170° Tilt: ±90°
<b>Pan/Tilt Speed</b>	Pan: 1° to 90°/sec Tilt: 7.85° to 45°/sec	Pan: 1° to 100°/sec Tilt: 10.8° to 100°/sec
<b>Preset Speed</b>	Pan: 120°/sec Tilt: 110.84°/sec	Pan: 200°/sec Tilt: 200°/sec
<b>Output Interfaces</b>	IP, USB	IP, USB
<b>USB Video Formats</b>	MJPEG, YUY2	MJPEG, YUY2
<b>UVC</b>	UVC 1.1	UVC 1.1
<b>UAC</b>	UAC 1.0	UAC 1.0
<b>Control Interfaces</b>	IP, USB	IP, USB
<b>Network Protocols</b>	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP / RTCP, RTSP, RTMP, VISCA over IP
<b>Control Protocols</b>	VISCA (IP), CGI (IP), USB	VISCA (IP), CGI (IP), USB
<b>Auto Tracking Modes</b>	Presenter Mode, Zone Mode, Hybrid Mode	Presenter Mode, Zone Mode, Hybrid Mode
<b>Gesture Control</b>	—	Yes (Tracking On/Off, Full/Upper Body)
<b>Protection Modes</b>	Privacy Mode, Sleep Mode	Privacy Mode, Sleep Mode
<b>Microphones</b>		
<b>Built-in Microphones</b>	—	2 (Omnidirectional)
<b>Noise Suppression</b>	—	Yes
<b>Pickup Range</b>	—	5 m
<b>Sensitivity</b>	—	-33 dBFS
<b>Frequency Response</b>	—	30 Hz to 20 KHz
<b>Maximum SPL</b>	—	129 dB SPL at 0.5 m
<b>Warranty</b>	Camera: 3 Years ; Accessories: 1 Year	

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

## Professional PTZ Camera Comparison Chart

Model	PTC500S PTC500+	PTC115 PTC115+	PTC330 PTC330N	PTC310U PTC310UN	PTC310H PTC310HN	PTC310 PTC310N	PTZ330 PTZ330N	PTZ310 PTZ310N
<b>PTZ Camera</b>								
<b>Effective Picture Elements</b>	2 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS	8 Megapixels CMOS	8 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS	2 Megapixels CMOS
<b>Output Resolution</b>	Full HD 1080p 60fps	Full HD 1080p 60fps	Full HD 1080p 60fps	4K 30fps	4K 30fps	Full HD 1080p 60fps	Full HD 1080p 60fps	Full HD 1080p 60fps
<b>Optical Zoom</b>	30X	15X	30X	12X	12X	12X	30X	12X
<b>HFOV</b>	65° (Wide) to 2.3° (Tele)	65° (Wide) to 4.3° (Tele)	65.1° (Wide) to 2.34° (Tele)	70° (Wide) to 6° (Tele)	70° (Wide) to 6° (Tele)	70° (Wide) to 6° (Tele)	67° (Wide) to 2.3° (Tele)	72.5° (Wide) to 6.3° (Tele)
<b>Panoramic Camera</b>								
<b>Effective Picture Elements</b>	2 Megapixels CMOS	2 Megapixels CMOS	—	—	—	—	—	—
<b>Output Resolution</b>	Full HD 1080p 60fps	Full HD 1080p 60fps	—	—	—	—	—	—
<b>HFOV</b>	110°	110°	—	—	—	—	—	—
<b>Camera</b>								
<b>Pan/Tilt Rotation</b>	Pan: ±175° Tilt: +90°/-30°	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: ±170° Tilt: +90°/-30°
<b>Pan/Tilt Speed</b>	2° to 50°/sec	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	0.1° to 100°/sec
<b>Preset Speed</b>	160°/sec	160°/sec	200°/sec	200°/sec	200°/sec	200°/sec	200°/sec	200°/sec
<b>Output Interfaces</b>	3G-SDI HDMI IP USB (PTC500+ only)	3G-SDI HDMI IP USB (PTC115+ only)	3G-SDI HDMI IP USB	3G-SDI HDMI IP USB	HDMI IP USB	3G-SDI HDMI IP USB	3G-SDI HDMI IP USB	3G-SDI HDMI IP USB
<b>USB Video Formats</b>	YUV, MJPEG (PTC500+ only)	YUV, MJPEG (PTC115+ only)	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	MJPEG, YUY2	YUV, MJPEG, H.264	YUV, MJPEG, H.264
<b>UVC</b>	UVC1.1 (PTC500+ only)	UVC1.1 (PTC115+ only)	UVC1.1	UVC1.1	UVC1.1	UVC1.1	UVC1.1	UVC1.1
<b>UAC</b>	UAC1.0 (PTC500+ only)	UAC1.0 (PTC115+ only)	UAC1.0	UAC1.0	UAC1.0	UAC1.0	UAC1.0	UAC1.0
<b>Control Interfaces</b>	RS-232 IP USB (PTC500+ only)	RS-232 IP USB (PTC115+ only)	RS-232 RS-422 IP USB	RS-232 RS-422 IP USB	RS-232 RS-422 IP USB	RS-232 RS-422 IP USB	RS-232 RS-422 IP USB	RS-232 RS-422 IP USB
<b>Network Protocols</b>	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, RTP/RTCP, RTSP, RTMP, ONVIF*, VISCA over IP							
<b>Control Protocols</b>	VISCA, Pelco-D, Pelco-P, CGI							
<b>NDI®   HX</b>	—	—	Yes (PTC330N only)	Yes (PTC310UN only)	Yes (PTC310HN only)	Yes (PTC310N only)	Yes (PTZ330N only)	Yes (PTZ310N only)
<b>Auto Tracking Modes/AI Functions</b>	Wide Area Mode Stage Mode Segment Mode	Wide Area Mode	Presenter Mode Zone Mode Hybrid Mode	Presenter Mode Zone Mode Hybrid Mode	Presenter Mode Zone Mode Hybrid Mode	Presenter Mode Zone Mode Hybrid Mode	SmartFrame SmartShoot	SmartFrame SmartShoot
<b>Warranty</b>	Camera: 3 Years ; Accessories: 1 Year							

\* ONVIF only available on PTC500S, PTC500+, PTC115, PTC115+, PTZ330, PTZ330N, PTZ310, and PTZ310N.

\*\* 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](mailto:IPE.Sales@aver.com)





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