AVer

**INTELLIGENT
TRACKING.
BROADCAST
EXCELLENCE.**

1-inch Sensor

AVer **TR615**

Broadcasting-Grade
AI Auto Tracking PTZ Camera

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Introducing the TR615, a broadcasting-grade 4K AI Auto Tracking PTZ Camera for professional broadcasting, live event production, and premium live streaming. With AI-powered auto tracking technology and ultra-smooth PTZ motion, enjoy precise, hands-free camera control. Featuring a 1-inch Sony Exmor RS® CMOS sensor, 19X optical zoom, and AI-enhanced algorithm, the TR615 produces cinematic 4K video and supports dual 12G-SDI, Genlock, NDI® HX3, Dante AV-H*, and Free-D for streamlined integration into broadcast workflows.
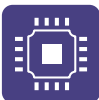
* Upgrade to Dante AV-H in 2025Q3 with Dante Ready Licensing.

4K ULTRAHD	228X Total Zoom	1-inch Sony Exmor RS® CMOS Sensor	12G-SDI x 2
4K 60fps Resolution			
Genlock	Supports Free-D	Human Detection AI	Presenter Mode
Zone Mode	Hybrid Mode	Voice Tracking*	5-Year Warranty

* Voice Tracking requires PTZ Link or MT300(N).
†Exmor RS® is a trademark of Sony Group Corporation or its affiliates.

Zoom In, Capture Every Detail

19X optical + 12X digital zoom meets crystal-clear 4K 60fps images! Capture every crisp detail, even with extreme zoom. Perfect for live events, sports broadcasting, and studio production. Unparalleled image precision, pixel-free sharpness for dynamic, high-quality professional videos.

Premium 1-Inch Exmor CMOS Sensor

Masterful imaging powered by a 1-inch Sony Exmor RS® CMOS sensor. Experience exceptional 4K image quality with minimal noise, even in low-light environments. By capturing more light and detail, experience cinema-like depth, true-to-life colors, and outstanding clarity. Tailored for professional broadcasting, live streaming, and high-end video creation where visual excellence is paramount.

AI-Powered Auto Tracking

Advanced AI algorithms accurately and naturally follow the presenter, even with complex movements. Stable tracking with smooth and professional footage achieved through continuous, hands-free frame adjustments. Ideal for bringing live events, interviews, and presentations to life.

Precision-Engineered Motion System

Silky-smooth PTZ movement at variable speeds with zero gear backlash are made possible with broadcast-grade direct-drive motors. Industry-leading 0.05° precise camera positioning accuracy and optical-grade movement stabilization ensure pinpoint panning and tilting. Enjoy a natural, fluid experience in automated tracking, even in high-paced live productions and demanding presenter tracking scenarios.

Seamless Production Ecosystem Integration

Going beyond standard NDI® and Dante-compatible PTZ camera use, the TR615 offers SRT-enabled remote production and RTMP streaming. Genlock facilitates seamless multi-camera switching, automated presenter handoff between cameras, and tally light coordination across your production ecosystem. Build a cohesive, reliable infrastructure for broadcast studios, hybrid events, and live productions.

Simplified Deployment & Operation

Deploy the TR615 in just 10 minutes! With Intelligent Human Detection, the TR615 self-adjusts to focusing on the presenter, eliminating the need for complex manual setups. The intuitive Web UI allows remote camera control, tracking parameter adjustments, and easy fine-tuning — perfect for professional broadcasters and AV technicians.

Product Specifications

Camera

Image Sensor	1" 4K Sony Exmor RS® CMOS
Total Picture Elements	20.92 Megapixels
Effective Picture Elements	17.25 Megapixels
Output Resolutions	4K/60, 4K/59.94, 4K/50, 4K/30, 4K/29.97, 4K/25, 1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50
Minimum Illumination	1.4 lux (IRE50, F2.8, 30fps)
S/N Ratio	≥ 50 dB
Gain	Auto, Manual
TV Line	1600 (Center)
Shutter Speed	1/4 to 1/10,000 sec
Exposure Control	Auto, Manual, Priority AE (Shutter, IRIS), BLC, WDR
White Balance	Auto, Manual, ATW, One Push, Indoor, Outdoor
Optical Zoom	19X
Digital Zoom	12X
Total Zoom	228X
Viewing Angles	DFOV: 77.8° (Wide) to 4.5° (Tele) HFOV: 69.5° (Wide) to 3.5° (Tele) VFOV: 41.5° (Wide) to 2.3° (Tele)
Focal Length	f = 9.79 mm (Wide) to 186.39 mm (Tele)
Aperture (Iris)	F = 2.8 (Wide) to 4.5 (Tele)
Minimum Working Distance	1.5 m (Wide), 5.0 m (Tele)
Pan / Tilt Angles	Pan: ±170°, Tilt: +90° / -30°
Pan / Tilt Speed (Manual)	Pan: 0.05° to 100° / sec, Tilt: 0.05° to 100° / sec
Preset Speed	Pan: 200° / sec, Tilt: 200° / sec
Preset Positions	10 (IR), 256 (RS-232 / RS-422 / IP)
Camera Control - Interface	RS-232 (DIN8), RS-422 (RJ45), IP, USB
Camera Control - Protocols	VISCA (RS-232 / RS-422 / IP), PELCO-D & PELCO-P (RS-232 / RS-422), CGI (IP), USB, ONVIF
Image Processing	Noise Reduction (2D / 3D), Flip, Mirror, WDR, BLC
Power Frequencies	50 Hz, 60 Hz

AI Technology

Auto Tracking Modes	Presenter Mode, Zone Mode, Hybrid Mode
AI Feature	Multi-Presenter Detection

Privacy Protection Mechanisms

Protection Mode	Sleep Mode

Audio

Channel	2ch Stereo
Codec	AAC-LC (48 K)
Sample Rates	48 KHz

Interface

Video Outputs	12G-SDI x 2, HDMI, IP, USB
Audio Outputs	12G-SDI x 2, HDMI, IP, USB
Audio Inputs	Mic in, Line in, XLR
Genlock Input	BNC

Warranty

Camera	5 Years
Accessories	1 Year

Package Contents

Camera, Remote Control, RS-232 In/Out Cable, Din 8 To D-Sub 9 Cable, Power Adapter, Power Cord, Cable Tie (x7), M2 x 4 mm Screws (x6), M3 x 6 mm Screws (x3), 1/4"-20L 6.5mm Screws (x2), Cable Fixing Plate (x3), Ceiling Mount Brackets (x2), Drilling Paper, Quick Start Guide

Optional Accessories

AVer CL01 PTZ Camera Controller, L-Type Wall Mount

General

Power Requirement	AC 100 - 240V to DC 12V/5A
Power Consumption	32.4W
PoE	PoE++
Dimensions (W x H x D)	202.5 x 304.5 x 231.5 mm
Net Weight	4.3 (±0.1) kg
Application	Indoor
Tally Lamp	Yes
Security	Kensington Slot
Remote Control	Infrared
Operating Conditions	Temperature: 0 °C to +40 °C ; Humidity: 20% to 80%
Storage Conditions	Temperature: -20 °C to +60 °C ; Humidity: 20% to 95%
Sustainability	Plastic Material: ABS Sustainability Method: PCR-PC

IP Streaming

Resolution	4K 60fps
Network Video Compress Formats	H.264, H.265, MJPEG
Network Audio Compress Formats	AAC-LC (48 K)
Maximum Frame Rate	4K 60fps
Bit-Rate Control Modes	VBR, CBR (selectable)
Range of Bit-Rate Setting	512 Kbps to 64 Mbps
Network Interface	10 / 100 / 1000 Base-T
Multi-Stream Capability	4K 60fps Standard Mode, Zoom Mode, NDI® Mode: 5 (RTSP, HDMI, USB, 12G-SDI, & NDI®) Teams Mode: 1 (USB)
Network Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, RTP / RTCP, RTSP, RTMP, SRT, HLS, NDI, LLDP, VISCA over IP, ONVIF
NDI® HX3	Yes (Pre-installed)
NDI® Embedded Bridge	Yes
Dante AV-H	Yes (Available in 2025Q3)
Camera Tracking Data Output	Supports Free-D Type D0 / D1

USB

Connector	USB 3.2 Gen 1
Video Format	MJPEG, YUY2
Audio Format	PCM
Maximum Video Resolution	4K
USB Video Class (UVC)	UVC 1.1
USB Audio Class (UAC)	UAC 1.0

Web UI

Live Video Preview	Yes
Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control
Camera/Image Adjustment	Exposure, White Balance, Picture
Network Configuration	DHCP, IP Address, Gateway, Subnet Mask, DNS
Supported Web Browsers	Chrome, Edge, Safari

Software Tools

Device Utility	Supports Windows® 7 or later, macOS® 10.14 or later
Enterprise Management	Supports Windows® 10 or later
Room Management	Supports Windows® 7 or later, macOS® 11.6 or later
Cloud Management	Supports Windows® 7 or later, macOS® 10.14 or later
PTZ Control Panel	Supports iOS & iPadOS® 11 or later
PTZ Link	Supports Windows® 7 or later, macOS® 10.14 or later
OBS Plugin for PTZ Cameras	Supports Windows® 8 or later, macOS® High Sierra v10.13 or later
CaptureShare	Supports Windows® 7 or later, macOS® 10.14 or later

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

Front

1. Tally Lamp
2. PTZ Camera
3. Power Indicator
4. IR Sensor

Back

5. Kensington Lock
6. RS-232
7. RS-422 In
8. RS-422 Out
9. Mic In
10. Audio In
11. XLR-R
12. XLR-L
13. Genlock
14. 12G-SDI 1
15. 12G-SDI 2
16. HDMI
17. USB 3.2 Gen 1
18. PoE++
19. DC 12V

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