Vizrt PTZ3 UHD PLUS
Vizrt PTZ3 PLUS

Connect, capture, and create beautiful live productions and presentations with two PTZ cameras built for BroadcastAV

NOVEMBER 2024

Vizrt PTZ3 PLUS and UHD PLUS Cameras

Tailor-made to bridge the gap where ProAV meets Broadcast, **Vizrt PTZ3 PLUS and UHD PLUS cameras** deliver high quality video for any live production or presentation. With intelligent AI-driven talent tracking, greater microphone choice with phantom power, and easier than ever integration with augmented reality (AR)

graphics systems like **Viz Virtual Studio Go**, it's never been easier all content creators to create broadcast quality content with high-end graphics. All using a single ethernet cable providing video, audio, power, control, tally, and FreeD camera tracking data over NDI|HX.


Connect, capture, and create

Offering exceptional HD or UHD picture quality, 20-30x optical zoom, great low-light performance , and phantom-powered audio, the Vizrt PTZ3 PLUS and PTZ3 UHD PLUS cameras combine quality hardware with intelligent production-enhancing features, including AI presenter tracking and the world's first FreeD tracking data embedded via NDI|HX. All in a sleek, discrete body that blends into any space.

Product highlights

AI-driven presenter tracking enabling operator autonomy
Keep talent in shot automatically based on face and posture detection with AI presenter tracking. Tracking continues even when talent turns away from the shot, with an auto 0.5-10s timeout/reset if the presenter leaves the presentation area, and the camera never tracks off set or breaks a green screen effect thanks to edge limitation. Blackboard detection locks the camera in place when it identifies a presentation area for a more enjoyable viewer experience.

When partnered with FreeD-over-NDI|HX, powerful AR and XR experiences with Viz Virtual Studio Go are possible through a single cable.
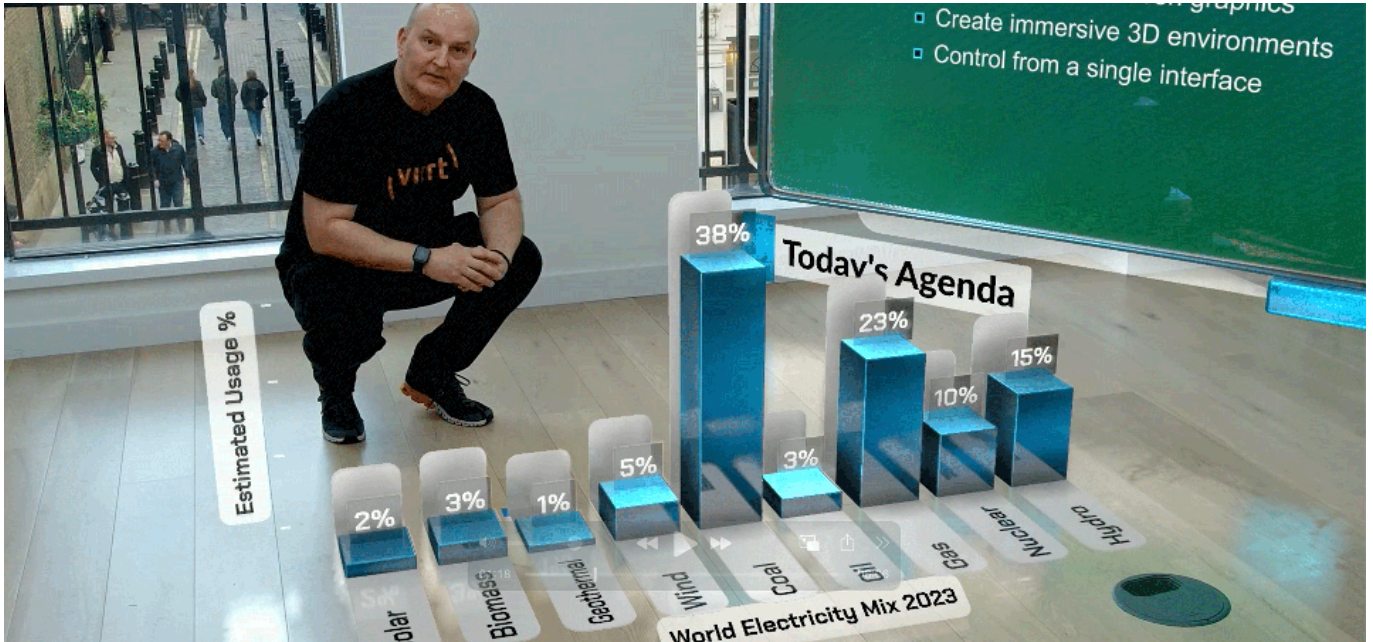
Embedded FreeD camera positioning metadata over NDI|HX

To simplify setup and use of camera tracking data for Augmented Reality (AR) or Extended Reality (XR) system setups, the cameras embed the open FreeD tracking data protocol in the NDI|HX stream itself, adding camera position, rotation, and lens data metadata into every frame. This world-first development removes the need for additional hardware and further reduces production complexity, making it easier than ever for all content creators to create broadcast quality content with high-end graphics systems like Viz Virtual Studio Go.

Owners of the original NewTek PTZ3 and PTZ3 UHD models can enjoy FreeD-over-NDI|HX with a free firmware upgrade available on Vizrt.com.

Professional audio with phantom power to mini XLR

The phantom powered mini XLR port makes it easy to connect any powered or non-powered microphone, audio source, or sound mixer to ingest audio in the same NDI|HX stream, so your productions sound as good as they look. Enjoy wider choice and less setup with the option to power +48v microphones with no amplifier or additional cabling needed. And never worry about accidentally powering non-powered mics with two-step confirmation needed to turn phantom power on.

Intuitive control at your fingertips

A simple and intuitive software control panel makes it easy to setup, configure, and adjust your PTZ3 PLUS cameras with pinpoint precision. Manage video sources, audio settings including phantom power, AI tracking, and device administration from one panel.

Discrete design

Focus on the picture, not the camera. Vizrt PTZ3 PLUS cameras keep branding to a minimum, without losing their Vizrt personality. Available in black and white variants with branded swappable front IR panels ensure PTZ3 PLUS cameras blend into any production, corporate, medical, or academic environment, whichever way you mount it.

VIZRT
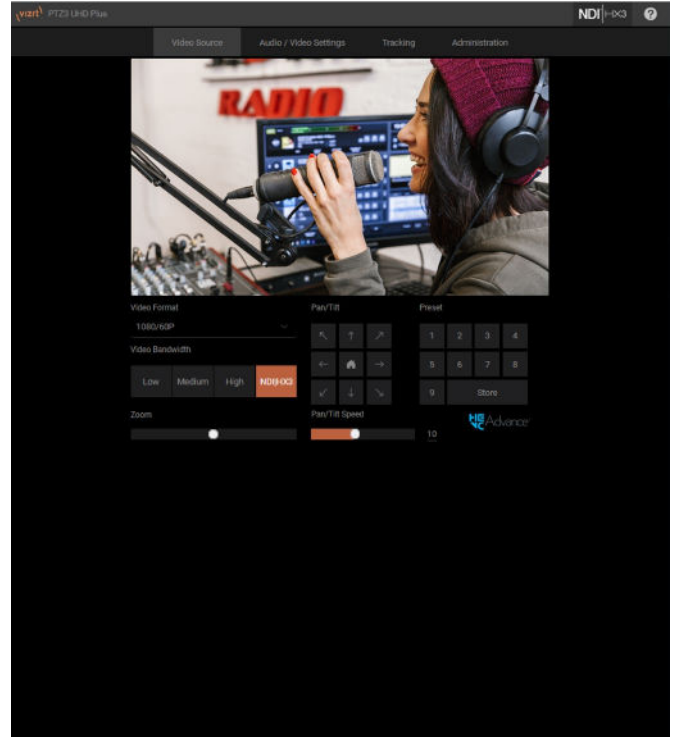
Example use cases

Visual Radio	Perfect for visual radio broadcasting, with high quality visuals, professional audio inputs, and great low light performance
Broadcast	For on-demand live productions and use by social media and marketing teams
Corporate	Turn any office or meeting room into a remote studio for executive communications, video conferencing, or online training
Education	Streamline virtual classroom production, lecture capture, and distance learning for live and on-demand teaching
Entertainment	Expand event coverage in-venue and behind the scenes for live streaming, recording, and social video
Gaming	Capture the action, emotion, and intensity of competitive gaming and esports from every angle
Government	Inform and involve citizens with real-time access to live meetings and community programming
Professional A/V	Explore virtually endless video applications, from medical and security installations to house of worship productions, weddings, and graduations
Sports	Enhance the fan experience with unique camera angles or outfit facilities for covering practices and club activities

What's in the box?
Everything you need to get started, right there in the box, including:

✓ PTZ3 PLUS/UHD PLUS Camera
✓ Reversible L wall mount bracket mount
✓ Fixed plate ceiling/shelf mount
✓ Mount fixings
✓ Remote control (to control up to four cameras)
✓ Secondary reversed faceplate for upside-down mounting
✓ Mini XLR to XLR Adapter cable
✓ Power supply with UK, US, EU, and ASIA Power cables
✓ USB C cable and USB to serial cable for firmware updates and recovery
✓ Welcome card with QR code for software updates and user guide

PTZ3 UHD PLUS

Tally Light

Reversible Name Plate

Mini XLR Phantom Power Mic Input

POE Capable RJ45 Ethernet (NDI HX3)

12vDC Power

RS232 I/O

USB-C

3G-SDI Output

HDMI Output

PTZ3 PLUS

Tally Light

Reversible Name Plate

Mini XLR Phantom Power Mic Input

POE Capable RJ45 Ethernet (NDI HX3)

12vDC Power

RS232 I/O

USB-C

3G-SDI Output

HDMI Output
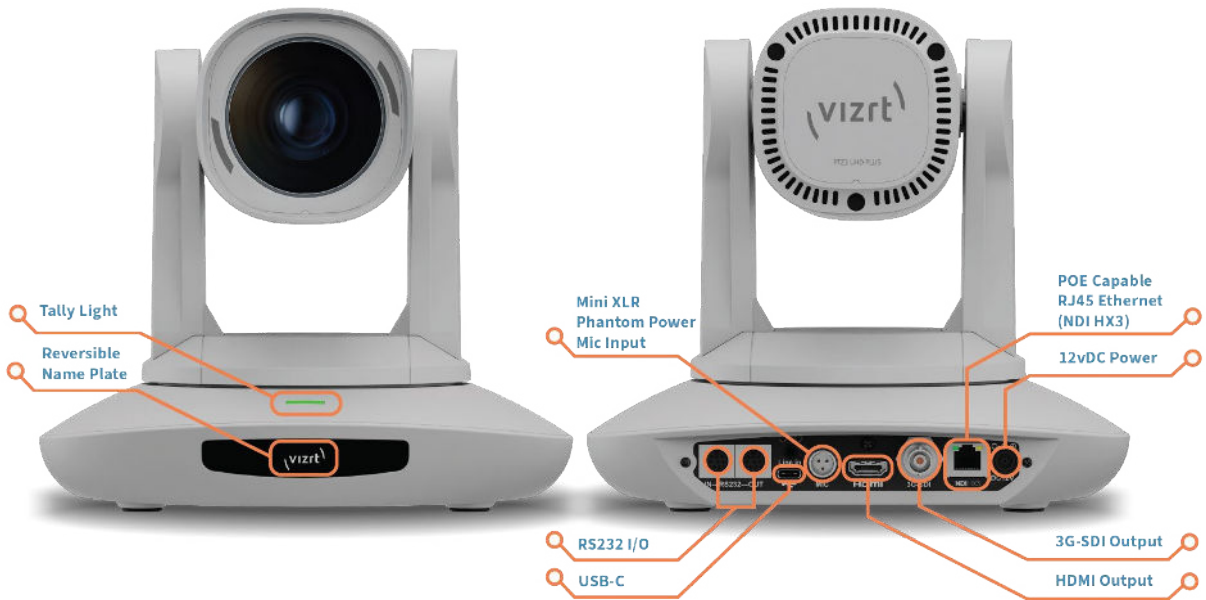
PTZ3 PLUS & UHD PLUS Specs

	PTZ3 PLUS	PTZ3 UHD PLUS
TRACKING AND AI		
Tracking Data	FreeD-over-NDI|HX, FreeD via UDP	FreeD-over-NDI|HX, FreeD via UDP
Face and Posture Presenter Tracking AI	Yes	Yes
Presenter Tracking Pan/Tilt Limit	Yes - tracking area limited within top-left and bottom-right boundary	Yes - tracking area limited within top-left and bottom-right boundary
Target Timeout (Return to Home)	0.5s to 10s selectable	0.5s to 10s selectable
Presenter Target Scaling	1/6, 1/8, 1/10, 1/12, 1/16, 1/20	1/6, 1/8, 1/10, 1/12, 1/16, 1/20
Presenter Target Switching	Yes - left to right selectable	Yes - left to right selectable
Blackboard Detection	Yes - reduces tracking in front of presentation area to minimize distractions	Yes - reduces tracking in front of presentation area to minimize distractions
VIDEO ENCODING		
Video Output	NDI|HX 3, NDI|HX 2, 3G-SDI*, HDMI	NDI|HX 3, NDI|HX 2, 3G-SDI*, HDMI
NDI Codecs	H.264 or HEVC	H.264 or HEVC
Bit Rate	CBR/VBR	CBR/VBR
Datarates	Low, Med, High, HX 3 Ultra	Low, Med, High, HX 3 Ultra
NDI Multicast	Yes	Yes
NDI Discovery Server	Yes	Yes
Video Formats	**1080p:** 60, 59.94, 50, 30, 29.97, 25, 24 **1080i:** 59.94, 50 **720p:** 60, 59.94, 50, 30, 29.97, 25	**2160p**:** 60, 59.94, 50, 30, 29.97, 25 **1080p:** 60, 59.94, 50, 30, 29.97, 25, 24 **720p:** 60, 59.94, 50, 30, 29.97, 25
OPTICS		
Lens	20x Optical & 2x Digital Zoom	30 x Optical & 2x Digital Zoom
Sensor	Panasonic 1/2.86" CMOS	Sony 1/1.8" 12MP sensor
Shutter Speed	1/30 to 1/10,000 sec	1/30 to 1/10,000 sec
Horizontal Viewing Angle	60°(Far) - 3,2°(Near)	60°(Far) - 2°(Near)
Focal Length	4.9~98mm	6.91mm~214.64mm
Aperture	F1 ~ F14	F1.8 ~ F14
Min. Object Distance	(Tele) 1.5M	(Tele) 1.5M
Min. Illumination	0.7lux (50 IRE Max AGC, 1/30, F1.8)	0.5lux (50 IRE Max AGC, 1/30, F1.8)

Simultaneous 3G-SDI output disabled in camera modes above 4Kp30

**In 4K modes, NDI\|HX 2 encoding is supported at launch. In HD modes, NDI\|HX 3 is supported*

EXPOSURE CONTROLS

Focus Control	Auto or Manual	Auto or Manual
Iris Control	Auto or Manual	Auto or Manual
Shutter Control	Auto or Manual	Auto or Manual

PICTURE CONTROL

Picture Control	Brightness, Contrast, Saturation, Sharpness	Brightness, Contrast, Saturation, Sharpness
Noise Reduction	2D/3D	2D/3D
Mirror	On/Off	On/Off
Flip	On/Off	On/Off
White Balance Modes	Auto/Indoor/Outdoor/One-Push/ Auto-tracking/Manual	Auto/Indoor/Outdoor/One-Push/ Auto-tracking/Manual

PAN AND TILT RANGE

Panning Angle	-170° to +170°	-170° to +170°
Tilting Angle	30° to +90°	30° to +90°

AUDIO

Audio Input	Mini XLR, 3.5mm stereo audio input (line)	Mini XLR, 3.5mm stereo audio input (line)
Mic Gain/Volume Control	Yes	Yes
Phantom Power to Mini XLR	Enabled through Web GUI with double confirm	Enabled through Web GUI with double confirm

USER OPERATION

Tally	Web-based or NDI® Studio Monitor applications for remote configuration, control, and monitoring.	Web-based or NDI® Studio Monitor applications for remote configuration, control, and monitoring.
User Interface	HDMI/SDI OSD operated through IR Remote	HDMI/SDI OSD operated through IR Remote

INTERFACES

Networking	1 Gigabit Ethernet	1 Gigabit Ethernet
Control	NDI®	NDI®
Power	PoE+ (IEEE 802.3 at) or DC12V Power Supply	PoE+ (IEEE 802.3 at) or DC12V Power Supply

ACCESSORIES

Mini XLR to XLR adapter	Included	Included
Wall Mount	Included	Included
Ceiling Mount	Included	Included
Mount Fixings	Included	Included
Remote Control	Included: IR remote for up to 4x cameras	Included: IR remote for up to 4x cameras
Warranty	3-years	3-years