

# RoboSHOT® Elite NDI®

Professional PTZ Camera

## ORDERING INFORMATION

### RoboSHOT 12E NDI

#### Black

999-99407-000 (North America)

999-99407-001 (Europe/UK)

999-99407-009 (Australia/New Zealand)

#### White

999-99407-000W (North America)

999-99407-001W (Europe/UK)

999-99407-009W (Australia/New Zealand)

### RoboSHOT 30E NDI

#### Black

999-99437-000 (North America)

999-99437-001 (Europe/UK)

999-99437-009 (Australia/New Zealand)

#### White

999-99437-000W (North America)

999-99437-001W (Europe/UK)

999-99437-009W (Australia/New Zealand)

## OVERVIEW

The RoboSHOT® Elite NDI® PTZ Camera series is designed with NewTek NDI® (Network Device Interface) technology, which makes it easy to share high-quality video over a local Ethernet network. It's perfect for broadcast solutions where customers need a high-end NDI camera to work with their NewTek Tricaster controller and existing NDI system, and is ideal for large meeting rooms, lecture halls and houses of worship.

The RoboSHOT 12E and 30E NDI cameras are currently the only cameras that offers full native NDI; other cameras are NDI|HX, which is suited for limited bandwidth installations. NDI technology allows multiple video and audio sources to be shared across a network. This eliminates costly direct connections, expensive cable runs, and infrastructure upgrades – while turning every source into a destination instantly available anywhere on the network.

The RoboSHOT Elite series is Vaddio's next generation of professional cameras. Designed with an 1/2.5-type Exmor R CMOS sensor, RoboSHOT Elite cameras deliver striking, high-definition video image quality. Cutting-edge image signal processing (ISP) results in better light-gathering capabilities, incredible contrast and sharp 1080p/60 video, even in dim lighting conditions.

### Enhanced Wide Dynamic Range

RoboSHOT Elite cameras are equipped with enhanced wide dynamic range, which can help correct for environments with uneven lighting by making darker or over-bright areas in video more visible and detailed.

### Remote Management

A web-based user interface gives the user camera control with a web browser from anywhere in the world over the IP network. Perfect for remote management, network operating centers and overall IT control.



### Smooth Tri-Synchronous Motion

The Elite Series of RoboSHOT PTZ cameras is equipped with Vaddio's industry-leading Tri-Synchronous Motion technology allowing all three axes of the camera to move simultaneously for ultra-smooth, natural camera motion.

### Flexible Video Outputs

Video outputs include simultaneous NDI streaming and local HDMI video output.

The RoboSHOT 12E cameras are recommended for small to medium spaces such as conference rooms, training rooms, and classrooms that require a wide angle of view.

The RoboSHOT 30E cameras are ideal for larger spaces such as large meeting rooms, lecture halls, conference centers and houses of worship.

## FEATURES

- Back-illuminated 8.51 Megapixel, high definition 1/2.5 Type Exmor R CMOS Sensor delivers 1080p/60 video
- RoboSHOT 12E models feature 12x Optical zoom
- RoboSHOT 30E models feature 30x zoom including IntelliZoom™ Image Processing
- Simultaneous HDMI and NDI streaming outputs
- Full administrative control via web interface; manage remotely while monitoring the stream separately



## TECHNICAL SPECIFICATIONS

<b>Outputs/protocols</b>	NDI® Streaming and HDMI
<b>Aspect ratio</b>	HDMI: 16:9 (all resolutions) NDI Streaming: 16:9 (all resolutions)
<b>Resolutions/frame rates</b>	FHD: 1080p/60/59.94/50/29.97/25, 1080i/60/59.94/50 HD: 720p/60/59.94/50
<b>Streaming resolutions/frame rates</b>	NDI® streaming up to 1080p/60
<b>Image device</b>	1/2.5 Type Exmor R CMOS Sensor
<b>Pixels</b>	8.51 million; (8.57M Total Megapixels)
<b>Lens/Zoom</b>	12E MODELS: 12x optical zoom, f=4.4mm wide end to 88.4mm tele end, F2 to F3.8 30E MODELS: 30x zoom, 20 x optical zoom + 10x IntelliZoom, f=4.4mm wide end to 88.4mm tele end, F2 to F3.8
<b>Horizontal FOV</b>	12E MODELS: 70.2° wide end to 6.8° tele end   30E MODELS: 70.2° wide end to 3.1° tele end
<b>Pan angle speed</b>	±150°, 0.35°/sec to 120°/sec
<b>Tilt angle speed</b>	+90, -30°, 0.35°/sec to 120°/sec
<b>Min. working distance</b>	229mm (wide), 800mm (tele)
<b>Min. illumination</b>	1.6 lux; 100+ lux recommended
<b>Electronic Shutter Speed</b>	1/1 to 1/10000 sec.
<b>Backlight compensation</b>	On/off
<b>Aperture/detail</b>	16 steps
<b>Focusing system</b>	Auto Focus / Manual Focus Mode / One-push Trigger Mode
<b>Gain</b>	Auto / Manual (0 to 33 dB)
<b>White balance</b>	Auto, ATW, Indoor, Outdoor, One-push, Manual
<b>S/N ratio</b>	More than 50 dB
<b>Power</b>	PoE+
<b>Remote management</b>	NewTek NDI software or equipment, IR Remote, web interface, Telnet and VISCA/RS-232 command APIs
<b>Enhanced Wide Dynamic Range</b>	Yes
<b>Spotlight Compensation Mode</b>	Yes
<b>Noise Reduction</b>	Yes
<b>Presets</b>	16 + Custom Home
<b>Invertible</b>	Yes
<b>Motors</b>	Silent BLDC Direct Drive Motors
<b>Warranty</b>	2 years plus option for purchasing additional 3 years
<b>Weight</b>	4.85 lbs (2.2 kg)
<b>Height</b>	6.94" (17.63 cm)
<b>Width</b>	7.05" (17.91 cm)
<b>Depth</b>	6.75" (17.15 cm)
<b>Operating/storage temperature</b>	0°C to +40°C (32°F to 104°F)
<b>Operating/storage humidity</b>	20% to 80% RH, non-condensing

Specifications are subject to change without notice.

### Listed part numbers include the following items:

- 1 RoboSHOT 12E or 30E NDI Camera (in black or white)
- 1 Quick-Start Guide
- 1 PoE+ Midspan Power Injector with AC cord set(s)
- 1 Thin Profile Wall Mount (in coordinating black or white) with mounting hardware and installation manual
- 1 Vaddio IR Remote Commander



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**COMMERCIAL BRANDS**  
 Chief | Da-Lite | Middle Atlantic | Projecta | Vaddio