

# **Tech Spec**

#### RoboSHOT 20 UHD

High Performance, Ultra High Definition PTZ Camera North America: 999-9950-000 (silver/black), 999-9950-000W (white) International: 999-9950-001 (silver/black), 999-9950-001W (white)

## **Camera Features**

- Back-illuminated 9.03 Megapixel, ultra high definition 1/2.3-type sensor delivers native 2160p/30 (3840 x 2160) video
- 12X optical zoom and 1.67X digital zoom; effective 20X zoom range; horizontal field of view 74° (wide) to 4.8° (tele) at 20X
- Imaging and performance comparable to 3-chip cameras
- Precise pan and tilt movements from 120° per second down to 0.35° per second
- Simultaneous HDMI, HDBT, 3Gb/s HD-SDI and IP streaming outputs
- Presenter-friendly IR remote control
- Full administrative control from your browser via web interface
- Integration-ready Telnet or serial RS-232 control
- Smooth, silent direct-drive motors

### **Connector Panel**



- 12 VDC, 3.0 Amp power connector Connect the power supply shipped with the camera
- OneLINK/HDBT connector Connect to OneLINK interface (video, power and control up to 328 ft/100m)
- HDMI connector HDMI video output
- HD-SDI connector HD-SDI video output
- RS-232 port Connect to a controller to manage the camera using a modified VISCA protocol
- HD video select switch Select the appropriate HDMI video output resolution for the near-end video display
- DIP switches Set IR frequency, IR on/off, image flip (camera is invertible), and baud rate

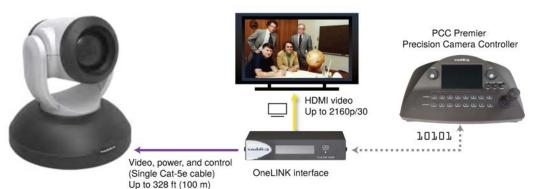
#### What's Included

Each RoboSHOT 20 UHD camera is shipped with these items:

- Vaddio IR Remote Commander
- 12 VDC, 3.0 A switching power supply and AC cord set(s)
- Thin Profile Wall Mount with mounting hardware
- EZCamera<sup>™</sup> RS-232 control adapter
- Quick Start Guide



#### **Basic Connection Diagram**



### Specifications

#### Video and Image

Outputs/protocols	HDMI, HDBT, HD-SDI, IP (H.264)	Aspect ratio	HDMI: 16:9 (all resolutions)	
			IP (H.264) Streaming: 16:9, 3:2	
			and 4:3	
HDMI	QFHD: 2160p/30/25 (3840 x 2160)	3Gb/s HD-SDI	FHD: 1080p/59.94/50/29.97/25,	
resolutions/frame	FHD: 1080p/59.94/50/29.97/25,	resolutions/frame	1080i/59.94/50	
rates	1080i/59.94/50	rates	HD: 720p/59.94/50	
	HD: 720p/59.94/50			
Streaming	imultaneous IP (RTSP format with H.264 compression) up to 1080p/30			
Camera				
Image device	1/2.3-Type Exmor R High-speed, Low-noise CMOS Sensor			
Pixels	9.03 Megapixels Total, 8.93 Effective Megapixels			
Zoom	12X optical zoom, 1.67X digital zoom; combined total 20X zoom			
Minimum illumination	3.0 lx (F1.8, 50IRE) color; recommended 100+ lux			
Horizontal FOV	74° (wide) to 4.8° (tele)	Min. working distance	10 mm (wide), 1500 mm (tele)	
Pan angle and speed	±160°, 0.35°/sec to 120°/sec	Tilt angle and speed	+90, -30°, 0.35°/sec to 120°/sec	
Gain	Auto / Manual (0 to 33 dB)	Aperture/detail	16 Steps	
Focusing system	Auto Focus / Manual Focus Mode / One Push Trigger Mode			
White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual			
Backlight compensation	n On/off	Sync system	Internal	
Noise reduction	6 steps	S/N ratio	Over 50 dB	
Control and	Vaddio IR Remote Commander, web interface (Chrome, Firefox, Safari, Internet Explorer, Microsoft			
management	Edge), Telnet, RS-232 API (modified VISCA)			
Power	12 VDC, 3.0 Amp power supply; LTPoE++			

#### Physical and Environmental

Height	7.9 in (200 mm)	Operating temperatute	-5 °C to +60°C (23°F to 140°F)
Width	8.0 in (203 mm)	Operating humidity	20% to 80% RH (non-condensing)
Depth	7.7 in (196 mm)	Storage temperature	-20° to +60° C (-4°F to 140°F)
Weight	6 lbs (2.7 kg)	Storage humidity	20% to 95% RH (non-condensing)

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