



# RoboSHOT™ HD PTZ Cameras

## RoboSHOT 30 HD PTZ

**High Definition PTZ Camera Featuring 30X Optical Zoom and Tri-Synchronous™ Motion**

The all-new RoboSHOT 30 HD PTZ Camera is a powerful, professional quality PTZ camera with high quality imaging, exceptional detail and marvelous color reproduction. This camera offers integrators, dealers and end users with an incredible advantage over other professional PTZ cameras available today.

The optical zoom power of the RoboSHOT 30 is perfect for medium to large rooms and provides exceptional support for applications including, House of Worship services, large auditorium A/V systems, large distance learning classrooms, live event theatres, IMAG for performances, large lecture theatres with lecture capture and more!

The key features of the RoboSHOT cameras are Tri-Synchronous Motion, the silent direct drive pan/tilt motors, advanced Exmor® image sensor, multi-element lens and ISP (image signal processor) combination.



Image: RoboSHOT 30 HD PTZ Camera  
(Black and white models available)

The Tri-Synchronous Motion algorithm in the RoboSHOT cameras is capable of moving all three (pan, tilt and zoom) axes simultaneously. The algorithm calculates the position and velocity of the smooth, direct-drive motor movements between the presets so pan, tilt and zoom arrive at the preset shot simultaneously, which allows for smooth and useable on-air camera movements. That's right, there's no more pan/tilt, then zoom like other PTZ cameras available today.

The lens, image sensor and ISP are the magic beans behind this camera's remarkable video performance characteristics. The lens is a powerful, glass, multi-element lens featuring a 30X optical zoom with an impressive 2.3° tele end and 63.7° wide field of view. The Exmor® 1/2.8", 2.34 Megapixel, Full HD (1080p/60) high-speed, low noise CMOS image sensor combined with the Advanced ISP produces totally awesome, vivid, realistic color with super-fast, razor sharp auto focus and iris routines.

The RoboSHOT 30 uses the Vaddio EZCamera™ System to transport HSDS™ differential video, power and control to and from the camera over Cat-5e cables. The proven Quick-Connect™ Interfaces immediately provide the ultimate in configuration flexibility. Five models of Quick-Connects are available including the Quick-Connect USB Mini, Quick-Connect SR, Quick-Connect DVI/HDMI Quick-Connect USB and the Quick-Connect Universal CCU.

The RoboSHOT cameras have an Ethernet port and a built-in web server, which allows the user to control the camera functions on a web page with any browser from anywhere in the world over the IP network. Telnet, IR Remote and RS-232 control for the camera are available to satisfy almost any, if not all, system control requirements.

The RoboSHOT 30 was designed for the times and represents a new era in specifying and integrating professional quality cameras into large room system integrations. In short, it has never been easier to integrate cameras into any large to medium room system than with the RoboSHOT 30.



Example: Built-in Camera Control Web Page

## CAMERA SYSTEMS

The RoboSHOT 30 is paired with all five of the Vaddio Quick-Connect Interfaces and shipped as a complete camera system. The available systems are as follows:

- **RoboSHOT 30 QMini:** RoboSHOT 30X Camera & Quick-Connect USB Mini, PN: 999-9911-000 North America 999-9911-001 (Int'l)
- **RoboSHOT 30 QSR:** RoboSHOT 30X Camera & Quick-Connect SR, PN: 999-9915-000 North America 999-9915-001 (Int'l)
- **RoboSHOT 30 QDVI:** RoboSHOT 30X Camera & Quick-Connect DVI/HDMI SR, PN: 999-9916-000 North America 999-9916-001 (Int'l)
- **RoboSHOT 30 QUSB:** RoboSHOT 30X Camera & Quick-Connect USB, PN: 999-9919-000 North America 999-9919-001 (Int'l)
- **RoboSHOT 30 QCCU:** RoboSHOT 30X Camera & Quick-Connect CCU, PN: 999-9917-000 North America 999-9917-001 (Int'l)

Add a "W" at the end of the part number for the white version (white version available Jan 2015). Please see the System Manuals for more information on system contents at [support.vaddio.com](http://support.vaddio.com)

## TECHNICAL IMAGE

## Recessed Rear Panel Connections

Rear Panel of the RoboSHOT 30 HD PTZ Camera



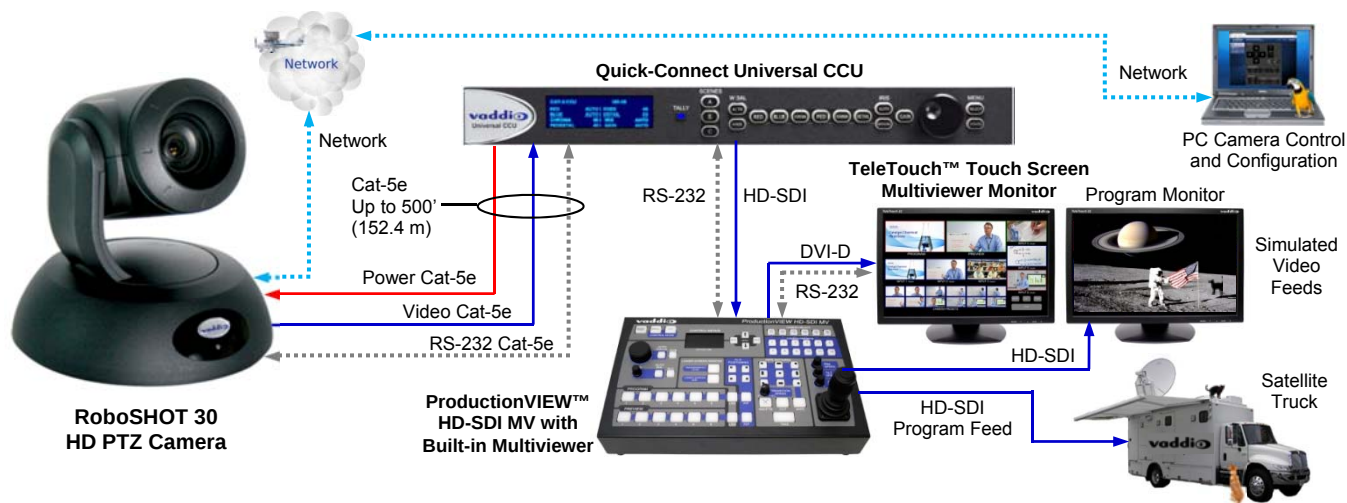
### Rear Panel Connections (left to right):

- ① Ethernet 10/100 port on shielded RJ-45 for access to the built-in web pages, Telnet control or system updates/upgrades
- ② HD Video Select rotary switch for setting the cameras HD output resolution
- ③ Camera Settings DIP switches for 3-IR frequency, IR on/off, Image Flip (camera is invertible), Normal or Super-wide Mode and Baud Rate
- ④ RS-232 port on shielded RJ-45 connector used with all Quick-Connect Interfaces
- ⑤ EZ-Power Video port on shielded RJ-45 for 24 VDC Quick-Connects (2-Cat-5 up to 100'/30.48m), for video only with the CCU systems
- ⑥ 36 VDC Port on shielded RJ-45 connector for power over Cat-5e up to 500' (152.4m), video from EZ-Power Video port

## SYSTEM DRAWING

### Configuration Example

RoboSHOT 30 with Quick-Connect Universal CCU, ProductionVIEW HD-SDI MV with TeleTouch Monitors



## CAMERA SPECIFICATIONS\*

|                               |                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                  | Exmor 1/2.8", 2.38 Megapixel, Full HD (1080p/60 native) High-speed, Low Noise CMOS Image Sensor                                                                                                                   |
| Lens                          | 30X Optical Zoom                                                                                                                                                                                                  |
| Horizontal FOV                | 65° Wide end to 2.3° Tele end, f=4.3mm to 129mm, F1.6 to F4.7                                                                                                                                                     |
| Supported Resolutions         | HD Resolutions: 1080p/60/59.94/50/30/25, 1080i/60/59.94/50, 720p/60/59.94/50/30/25, 16:9 Format                                                                                                                   |
| Vaddio Special Features       | Tri-Synchronous Motion: Concurrent PTZ motor movement and simultaneous PTZ arrival at a stored preset. Advanced ISP: Vivid and accurate color with extremely fast, razor sharp automatic focus and iris routines. |
| S/N Ratio                     | > 50 dB                                                                                                                                                                                                           |
| Minimum Illumination          | 1.4 lux (F1.6, 50IRE), Recommended illumination >100 lux and above (Normal office lighting is 375-500 lux)                                                                                                        |
| Minimum Distance              | 10mm (wide end) to 1.2m (tele end)                                                                                                                                                                                |
| Pan & Tilt Angle/Speed        | Pan/Tilt Angles: ±160°, Tilt: +90° to -30°<br>Pan/Tilt Speeds: Both Axes 0.35°/sec to 120°/sec                                                                                                                    |
| Sync System                   | Internal                                                                                                                                                                                                          |
| Control Methods               | Ethernet for Internal Web Pages and Telnet, IR Remote Commander and RS-232 for external controllers                                                                                                               |
| Operating/Storage Temperature | 0°C to +40°C (32°F to 104°F), 20% to 80% Humidity                                                                                                                                                                 |
| Dimensions/Weight             | 6.942" (176.3mm) H x 7.056" (179.2 mm) W x 6.757" (171.6mm) D<br>4.85 lbs.(2.199923 kg) (About 900 peanut M&Ms)                                                                                                   |

\*Specifications are subject to change and revision without notification or obligation.