

REVEAL™

Vaddio™ IN-Wall™ Architectural Series Cameras

Vaddio's revolutionary REVEAL IN-Wall PTZ cameras are the first in Vaddio's Architectural Series of fine video products. Quite simply, the industrial design of the REVEAL and the image quality of the PTZ camera are stunning. The REVEAL was conceived to blend into high-end videoconference and presentation rooms as the aesthetics match closely to that of flat screen monitors in shape, color and finish.

The showpiece of the REVEAL IN-Wall PTZ Camera is the smart glass technology framing system which when activated, frosts the glass cover and shuts off the camera so there is no mistake that the REVEAL is on or off. This ensures that conference participants know what state the camera is in (on or off) which is important in the high-end room system designs.

The REVEAL glass is composed of a liquid crystal matrix, laminated between ITO coatings and glass. When the camera is turned on, the glass switches to its clear state, the camera homes and is ready for use. Vaddio also offers a clear glass version of the REVEAL system too. While the design and appeal of the REVEAL is noted, the electronics inside are also just as impressive.

Significant attributes of the REVEAL include the use of a 1/3-type, 1.3 megapixel CCD image sensor for crisp clear images, 18X glass optical zoom lens and 1.8 LUX rating which works well in small or large rooms and low light environments, the IN-Wall enclosure uses the depth of the wall cavity eliminating the cameras extension into the room, and the REVEAL works with the Vaddio Cat. 5 HSDS™ cabling standard for video, power and control. The REVEAL comes in two (2) system options using the Vaddio Quick-Connect HD-18 SR or Quick-Connect DVI/HDMI and the Quick-Connect CCU HD18 can be added. The REVEAL looks as good as it does on the inside as the outside and provides superior images for wide range of HD applications.

WHAT'S INCLUDED

- REVEAL Camera Module (with REVEAL or Clear Glass)
- Choice of Quick Connect System(s)
- Power Supply and AC Cord Set
- Documentation

TECHNICAL FEATURES

It's in the Glass

The REVEAL smart glass system uses a liquid crystal matrix layered between optical grade glass sheets, when activated it turns the glass opaque and switches the camera off. REVEAL is also available in a plain glass version.



Figure 1: REVEAL IN-Wall PTZ Camera with REVEAL Glass Activated and Camera Turned Off



Figure 2: REVEAL IN-Wall PTZ Camera with REVEAL Glass Deactivated and Camera Turned ON (or Clear Glass Version)

The Look and Feel

The REVEAL is a startling departure to that of other HD PTZ Cameras made today. The beauty of the glass and brushed aluminum fittings compliments any conferencing and presentation environment.

Quick-Connect Systems with HSDS

Like all Vaddio made cameras, there are multiple options for using the REVEAL with the Vaddio HSDS Cat 5 video, power and control systems. The options include; Quick-Connect HD-18 SR, Quick-Connect DVI-D/HDMI and even the Quick-Connect CCU HD-18.

Superior Image Quality

The REVEAL uses a 1/3-type CCD 1.3 megapixel sensor with an 18X optical zoom lens and delivers brilliant and accurate colors and works well in low light with a 1.8 Lux rating as well.

HD Resolutions

The REVEAL outputs HD YPbPr using HSDS over Cat 5 and is capable of a full 1080p/60 resolution. A full list of video resolutions includes; 1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 480i/29.97, 576i/25.

System Compatibility

Simply by using the Quick-Connect DVI-D/HDMI Interface, a digital signal can be achieved for compatibility with today's most popular videoconferencing conferencing systems. The control codes are also compatible with VISCA™ protocols making the REVEAL easy to control.

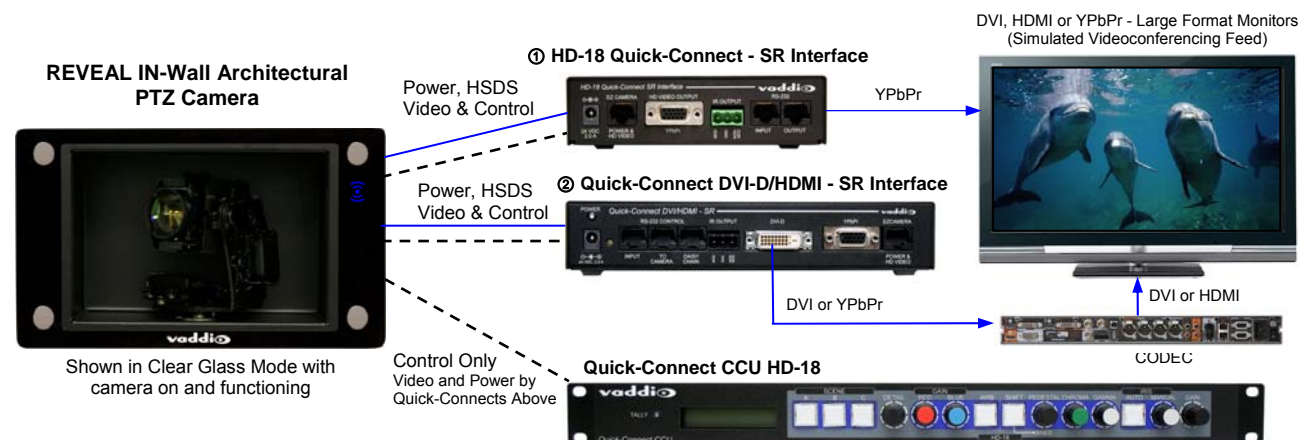
Cerise sur le Gâteau (Frosting on the Cake)

The REVEAL was designed and manufactured by Vaddio in the in the greater Minneapolis - St. Paul metro area, Minnesota, USA.

SYSTEM CONNECTIVITY

Figure 3: System Configurations Showing Choices of Quick-Connect Systems

① HD-18 Quick-Connect -SR Interface or ② Quick-Connect DVI/HDMI - SR Interface (not both)



TECHNICAL SPECIFICATIONS

REVEAL IN-Wall Architectural Camera Systems	
Part Numbers (Preliminary)	REVEAL Frosted Smart Glass with Quick-Connect HD-18 SR - 999-6935-000/001 (001 Int'l Version) REVEAL Frosted Smart Glass with Quick-Connect DVI-D/HDMI - 999-6936-000/001 (001 Int'l Version) REVEAL Clear Glass with Quick-Connect HD-18 SR - 999-6925-000/001 (001 Int'l Version) REVEAL Clear Glass with Quick-Connect DVI-D/HDMI - 999-6926-000/001 (001 Int'l Version)
Connectors	Two (2) RJ-45 on top of camera enclosure: One (1) for Power and HSDS Video, One (1) for Control
Glass Properties	The REVEAL glass It is composed of a liquid crystal matrix, laminated between ITO (Indium tin oxide) layers and glass. When a charge is applied to the opaque glass, the glass becomes transparent
Camera Properties	1/3-type, 1.3 Megapixel CCD Image Sensor with 18X (f=4.7~84.6mm) Optical Zoom Lens, 1.8 Lux Min. Illumination (F1.8, 50IRE)
Video Resolutions Supported	1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/59.94, 1080i/50, 720p/59.94, 720p/50, 480i/29.97, 576i/25
Pan/Tilt Range and Field Of View (FOV)	Horizontal Pan: ± 40°, 0°defined as center home position, Approx. 135° total , Vertical Tilt: + 25°, - 40°, 0°defined as center home position, Approx. 96° total, Camera - Horizontal Field of View 55.2° (wide end) to 3.2° (tele end)
Power Supply	24 VDC, 2.0 Amp PowerRite Power Supply included with AC Cord Sets Low Voltage DC solution, No AC cabling is required.
Power Consumption	500mA in stand-by frosted opaque mode, 550 mA in clear glass camera on mode
Dimensions (H x W x D)	IN-Wall section of back box: 5.75" (146mm) H x 8.5" (216mm) W x 3.85" (98mm) D, Wall cut out dimensions: 6" (152.4mm) H x 8.75" (222.25) W Outer Frame Size: 6.75"(171.5mm) H x 11.75" (298.5mm) W Glass Dimensions: 7.1875" (182.5625mm) H x 12.75" (323.85mm) W x .325" (8.255mm) Thick Glass Offset from wall: 1.25" (31.75mm)
Weight	8.55 lbs. (3.878214763500001 kg, roughly)