

ACUIX™ ES Domes

INDOOR AND OUTDOOR, PTZ AND FIXED OPTIONS

The ACUIX™ ES PTZ dome features four housing configurations and four integrated high-resolution, auto-focus cameras for virtually any application. The indoor color cameras are available with either an 18X zoom lens and 460 TVL of resolution or a fixed 2.8-10 mm Vari-focal Auto-Iris lens and 540 TVL of resolution. The outdoor Wide Dynamic Range (WDR) and True Day/Night (TDN) models feature 18X, 26X and 36X zoom lenses and up to 530 TVL of resolution. The quick and easy installation characteristics make the ACUIX ES the undisputed first choice when a cost competitive, fully featured dome is required.

Like the ACUIX PTZ dome, the ACUIX ES PTZ dome uses Honeywell proprietary technology that allows users to remotely upload firmware to all domes and permits secure storage of all camera settings such as labels, presets, tours, and privacy zones.

The ACUIX ES PTZ comes with many software features that increase performance and make installation and operation easy. Privacy Zones allow a user to mask up to 24 regions to ensure sensitive areas remain obscured (up to eight on screen at once). Password protection prevents unauthorized users from changing system settings. Standard options include UTP video and up to 8 dry contact inputs. Multi-language menus are provided for English, French, German, Dutch, Italian, Polish, Czech and Spanish.

Market Opportunities

The combination of Honeywell technology, advanced video processing, and low-profile design makes ACUIX ES ideally suited for retail, banking and finance, healthcare, schools and campuses, and anywhere detailed surveillance is essential. Highly reliable, ACUIX ES offers world-class performance and seamless system integration.

Features - PTZ Version

- 18X, 26X and 36X, 530 TVL, 128X Wide Dynamic Range (WDR), True Day/Night
- 18X Color, 460 TVL
- Remote firmware updates
- Secure backup of all camera settings
- Up-the-Coax control
- UTP video output available
- 2 dry contact inputs standard and 8 available as an option
- Up to 64 user-defined presets
- 3 preset tours of up to 24 presets each
- Up to 24 privacy zones (up to 8 on screen at once)
- Password protection prevents unauthorized users from altering system settings
- Built-in surge and lightning protection
- Menus are provided for English, French, German, Dutch, Italian, Polish, Spanish and Czech

Features - Fixed Version

- 1/3" Sony Interline CCD
- Super high resolution color: 540 TVL
- Indoor in-ceiling and surface/pendant mount housings
- Easy to use cable management housing design
- 2.8-10 mm (F1.3) aspherical Vari-focal Auto Iris lens
- Local video output for setup
 - Service/monitor cable is included
- 2-D axis gimbal
- Line lock with phase adjustment (24 VAC)
- Dual 12 VDC/24 VAC voltage



In-ceiling



Surface Mount



Indoor Pendant



Outdoor Pendant

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SPECIFICATION - CAMERAS

PTZ Cameras	18X Color	18X WDR/TDN	26X WDR/TDN	36X WDR/TDN
Image Sensor	1/4" SuperHAD CCD	1/4" EXview HAD CCD	1/4" EXview HAD CCD	1/4" EXview HAD CCD
Lens	18X optical zoom, f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0	18X optical zoom, f=4.1 mm (wide) to 73.8 mm (tele), F1.4 to F3.0	26X optical zoom, f=3.5 mm (wide) to 91.0 mm (tele), F1.6 to F3.8	36X optical zoom, f=3.4 mm (wide) to 122.4 mm (tele), F1.6 to F4.5
Horizontal Resolution	>460 TVL (NTSC and PAL)	>530 TVL (NTSC and PAL)	>530 TVL (NTSC and PAL)	>530 TVL (NTSC and PAL)
Digital Zoom	12X (216X total zoom)	12X (216X total zoom)	12X (312X total zoom)	12X (432X total zoom)
Angle of View (H)	48° (wide end) to 2.8° (tele end)	48°(wide end) to 2.8° (tele end)	54.2° (wide end) to 2.2° (tele end)	57.8° (wide end) to 1.7° (tele end)
Sync System	Internal/external line lock	Internal/external line lock	Internal/external line lock	Internal/external line lock
Minimum Illumination	1.0 lux (F1.4 50 IRE)	0.7 lux (F1.4 50 IRE)	1.0 lux (F1.6 50 IRE)	1.4 lux (F1.6 50 IRE)
S/N Ratio	>50 dB	> 50 dB	> 50 dB	> 50 dB
Electronic Shutter	1/50 to 1/10,000 sec	1/1 to 1/10,000 sec	1/1 to 1/10,000 sec	1/1 to 1/10,000 sec
White Balance	Auto, Indoor, Outdoor, One Push, Manual	Auto, Indoor, Outdoor, One Push, Manual	Auto, Indoor, Outdoor, One Push, Manual	Auto, Indoor, Outdoor, One Push, Manual
Gain	Auto/Manual -3 to 28 dB, 2 dB steps	Auto/Manual -3 to 28 dB, 2 dB steps	Auto/Manual -3 to 28 dB, 2 dB steps	Auto/Manual -3 to 28 dB, 2 dB steps
Backlight Compensation	On/Off	On/Off	On/Off	On/Off
Focusing System	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual

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SPECIFICATION - CAMERAS

Fixed Camera 2.8-10 mm, Vari-focal	
Video Standard	PAL/NTSC
Scanning System	625 scan lines, 50 Hz/525 scan lines, 60 Hz (PAL/NTSC)
Image Sensor	1/3" Sony CCD color image sensor
Lens	2.8-10 mm, Vari-focal Auto Iris, F1.3
Horizontal Resolution	540 TVL
Number of Pixels (H x V)	752 x 582
Angle of View	Tele: 34.3° (D), 27.4° (H), 20.5° (V) Wide: 129° (D), 100.2° (H), 73.3° (V)
Sync System	12 VDC: Internal, 24 VAC: line lock option
Minimum Illumination	Clear dome - 0.6 lux @ F1.3 (AGC on, 50 IRE) Smoke dome - 2 lux @ F1.3 (AGC on, 50 IRE)
S/N Ratio	50 dB (AGC Off)
Video Output	1.0 Vp-p, composite @ 75 Ohms
Auto Gain Control	On/off, selectable
ALC	Auto Iris: DC drive
Automatic Electronic Shutter	1/50 – 1/100,000 second (PAL)
White Balance	ATW/AWC
Line Lock Phase Adjust	Adjustable (available only with 24 VAC)
Backlight Compensation	On/off, switchable
Flickerless	On/off, switchable

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SPECIFICATION

18X, 26X, 36X Outdoor and 18X Indoor	
Operational	
Angular Travel	Horizontal: 360° continuous Tilt: -2° above horizontal to 90° down
Speed (Manual Mode)	Pan: variable from 0.0625° to 360°/sec Tilt: variable from 0.0625° to 360°/sec
Speed to Preset	<0.6 sec.
Preset Accuracy	± 0.4°
Presets Per Dome	64
Preset Tours	3 tours with up to 24 presets per tour
Still Shot™ Feature (Outdoor models only)	Freeze-frame of video between presets during tour
Mimic Tours	Three 2-minute mimic tours
Sector Identification	16 independent sectors or zones
Privacy Zones	24 in all cameras
Default Function	Activates preset tours and mimic tours after programmable period of inactivity
Flashback	Recalls the last preset position observed whether in manual, preset tour or mimic tour. Presets can be toggled between last two.
Digital Zoom Label	Provides on-screen identification of digital zoom setting (i.e., 2X, 4X, 12X). User selectable.
24 VAC Line-Lock	Unit is 24 VAC line locked with 180° phase adjust
Alarm Processing	2 on-board inputs for dry contacts; 8 available on "B" models – unlimited options available with IntelliBus
Protocols Supported	IntelliBus, Diamond, MAXPRO mode, VCL, VCL up the coax, Pelco 'P' & 'D' & Pelco P_AD, Pelco D_AD
Receiver/Driver	Digital Communication: RS485 Addressing: 8 position DIP switch Protocol: 8 position DIP switch Switch selectable termination

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SPECIFICATION

18X, 26X, 36X Outdoor	
Environmental	
Temperature	Operating: -4°F to 122°F (-20°C to +50°C) Storage: -40°F to 140°F (-40°C to +60°C)
Relative Humidity	0 to 100%, non-condensing IP66 rated enclosure
Regulatory	
Immunity	EN50130-4
Safety	UL 60065/EN60065
Electrical	
Input Voltage	24 VAC @ 50/60 Hz, 12 VDC
Input Tolerance	20.4 to 27.6 VAC and 10.2 to 13.8 VDC
Power Consumption	40 W peak (at nominal input voltage with heater on) 15 W Idle (heater off, 22 W with heater on)
Mechanical	
Dimensions	Housing: 7.66" (194.6 mm) H x 10.01" (255.5 mm) Dia. Lower Dome: 7.52" (191 mm) Dia.
Weight	7.3 lb (3.3 kg)
Construction	Housing: Aluminum Lower Dome: Optical Grade Acrylic
Mounting Method	Pendant Only

18X Indoor	
Environmental	
Temperature	Operating: -40°F to 140°F (-40°C to +60°C) Storage: -40°F to 140°F (-40°C to +60°C)
Relative Humidity	0 to 93%, non-condensing
Regulatory	
Emissions	FCC: Part 15, Class B CE: EN55022, Class B
Immunity	EN50130-4 CE: EN61000-6-1:2001
Safety	UL 60065 CE: EN60065
Electrical	
Input Voltage	24 VAC @ 50/60 Hz, 12 VDC, Class 2 LPS
Input Tolerance	21 to 27 VAC and 10.5 to 16 VDC
Power Consumption	15 W peak
Indoor In-ceiling Mount	
Mechanical	
Dimensions	Housing: 5.98" (152 mm) H x 8.13" (206.4 mm) Dia. Lower Dome: 5.75" (146 mm) Dia.
Weight	5 lb (2.27 kg)
Construction	Housing: Aluminum Lower Dome: Optical Grade Acrylic
Mounting Method	193.8 mm diameter mounting hole with 3 wing tabs
Surface and Pendant Mount	
Mechanical	
Dimensions	Surface Mount Housing: 5.04" (128 mm) H x 7.64" (194 mm) Dia. tapering to 5.98" (152 mm) Dia. Pendant Housing: 6.6" (167.64 mm) H x 7.64" (194 mm) Dia. tapering to 5.98" (152 mm) Dia. Lower Dome: 5.75" (146 mm) Dia.
Weight	5 lb (2.27 kg)
Construction	Housing: Polycarbonate Finish: Warm Gray Lower Dome: Optical Grade Acrylic
Mounting Method	Surface mount on flat surface. Can be recess mounted to reduce profile by 1.1" (28 mm). 1.5" NPT with included mount for pendant mount model.

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SPECIFICATION

Fixed Indoor	
Environmental	
Temperature	Operating: 14°F to 122°F (-10°C to 50°C) Storage: -20°C to 60°C
Relative Humidity	30% to 90% non-condensing
Regulatory	
Emissions	FCC, CE (EN55022)
Immunity	CE (EN50130-4)
Safety	UL 60065, EU: 73/23/EEC LVD
Electrical	
Input Voltage	12 VDC/24 VAC
Input Range	11-16 VDC, 17-28 VAC
Surge Suppression	1.5 kW Transient
Power Consumption	3.5 W (max)

Fixed Indoor	
In-ceiling Mount	
Mechanical	
Dimensions	5.98" (152 mm) H x 8.13" (206.4 mm) Dia.
Weight	3.1 lb (1.4 kg)
Construction	Housing: Aluminum Lower Dome: Optical Grade Acrylic
Mounting Method	193.8 mm diameter mounting hole with 3 wing tabs
Connectors	Video Output: BNC connector Power Input: (Screw terminal block)
Surface and Pendant Mount	
Mechanical	
Dimensions	Surface Mount Housing: 5.04" (128 mm) H x 7.64" (194 mm) Dia. tapering to 5.98" (152 mm) Dia. Pendant Housing: 6.6" (167.64 mm) H x 7.64" (194 mm) Dia. tapering to 5.98" (152 mm) Dia. Lower Dome: 5.75" (146 mm) Dia.
Weight	3.1 lb (1.4 kg)
Construction	Housing: Polycarbonate Finish: Warm Gray Lower Dome: Optical Grade Acrylic
Mounting Method	Surface mount on flat surface. Can be recess mounted to reduce profile by 1.1" (28 mm). 1.5" NPT with included mount for pendant mount model.
Connectors	Video Output: BNC connector Power Input: (Screw terminal block)

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ACCESSORIES AND ORDERING

Accessories	
Mounts and Adapters	
HDXWM2	Indoor and Outdoor Wall Mount
HDXSM1	Half Swan Neck Pole Mount
HDPRM2	Parapet and Flat Roof Mount
HDCM1	Ceiling Mount for Indoor Pendant (Not for outdoor use)
HDXPMA1	Pole Mount Adapter for HDXWM2 and Rugged Housing
HDXCMA1	Corner Mount Adapter for HDXWM2 and Rugged Housing
HDXWM1B	Indoor Wall Mount, Black Matte Finish

Ordering - Outdoor Models

HDV F P W A S

Series ————|

Camera ————|

F = 26X WDR TDN
J = 18X WDR TDN
L = 36X WDR TDN

Format ————|

P = PAL
N = NTSC

Housing ————|

W = Outdoor (White)

Interface ————|

A = 2-wire RS485, Video over Coax, 2 contact inputs
B = 2-wire RS485, Video over Coax, Video over UTP, 8 contact inputs

Dome ————|

S = Smoke
C = Clear

Example
HDVFPWAS =
26X WDR & TDN/PAL/Outdoor White/RS485 2 Contact Inputs/Smoke

Ordering - Indoor Models

HDV A P D A S W

Series ————|

Camera ————|

A = 18X Color
1 = 2.8-10 mm VFAI

Format ————|

P = PAL
N = NTSC

Housing ————|

D = In-ceiling
S = Surface/Pendant

Interface ————|

A = 2-wire RS485, Video over Coax, 2 contact inputs
B = 2-wire RS485, Video over Coax, Video over UTP, 8 contact inputs
F = Video over coax (Must use this option when ordering fixed unit)

Trim Ring (in-ceiling versions only) ————|

W = White

Dome ————|

S = Smoke
C = Clear

Example (PTZ)
HDVAPDASW =
18X Color/PAL/In-ceiling/RS485 2 Contact Inputs/Smoke/White trim

Example (Fixed)
HDV1PDFSW =
2.8-10 mm VFAI Fixed/PAL/In-ceiling/Video over coax/Smoke/White trim

NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

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