

HD6 PRESSURIZED PTZ DOME

www.honeywellvideo.com

HIGH SPEED PTZ DOME SYSTEM

The HD6 Pressurized Dome is designed for environments where salt air, dust, humidity or smog infiltrates conventional dome housings. The pressurized dome features two independent O-ring seals between the top and bottom of the housing that maintains up to 5 PSI of dry nitrogen inside the dome. A thermostatically controlled 24 VAC heater and blower maintain a comfortable operating environment for the camera, zoom lens and the HD6 drive mechanism. The True Day/Night camera option delivers images in extreme low-light conditions. The slow speed shutter (selectable down to 1/4 second) provides low-light color performance down to 0.15 lux.

Market Opportunities

The HD6 Pressurized Dome is perfect for installation in any outdoor environment where salt air, dust, humidity or smog is present. The HD6 Pressurized Dome is used in many traffic surveillance, seaport, and industrial applications where harsh weather and atmospheric conditions prevail.

Features

- Nitrogen pressurized dome housing with integral sun shroud
- Protects against dust, smog, salt air, humidity, and other corrosive environments
- Feed-through Schraeder Valve permits easy recharging
- Built in 24 VAC heater and blower
- High-Resolution Color or True Day/Night Cameras for extreme low-light performance
- Slow-speed shutter (down to 1/4 sec) provides low-light color performance down to 0.15 Lux - Selectable
- 360° continuous pan rotation (proportional to zoom)
- Variable pan speed 1/10° - 400° per second
- 3, 2-minute PTZ Patterns (Auto Learn Function)
- Up to 98 programmable PreShot (pan, tilt, zoom) positions with 24-character on-screen labels
- PreShot recall speed is approx. 1/2 second
- 10 programmable VectorScans (video guard tours)
- 16 sector IDs with 24-character on-screen displays
- 10 privacy zones
- Auto data polarization
- 4 on-board alarm inputs
- Auto-pivot tracking
- Language selection (English, French, German, Italian, Polish or Spanish) for programming menus & on-screen displays
- Protocols: Diamond (Standard), Maxpro, VCL, Pelco P & D
- Auto Homing feature can also activate Tours and Patterns with Dwell time up to 99 minutes
- Unshielded Twisted Pair (UTP) video option available
- "Flashback" recalls last PreShot or manual position
- 24 VAC line-lock with 180° phase adjustment



HD6 PRESSURIZED PTZ DOME

www.honeywellvideo.com

SPECIFICATIONS

CAMERA	HD6A	HD6B	HD6C	HD6D	HD6E
Image Sensor	1/4" type EXview HAD CCD	1/4" type EXview HAD CCD	1/4" Progressive CCD	1/4" EXview CCD	1/4" EXview CCD
Aspherical 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	23X optical zoom, f=3.6 mm (wide) to 82.8 mm (tele), F1.6 to F3.7	23X optical zoom, f=3.8 (wide) to 87.4mm (tele), F1.6 to F3.8	25X optical zoom, f=3.8 (wide) to 95mm (tele), F1.6 to F3.7
Horizontal Resolution	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)
Digital Zoom	12X (216X total zoom)	12X (216X total zoom)	4X (92X total zoom)	4X (92X total zoom)	4X (100x total zoom)
Angle of View (H)	48 degrees (wide end) to 2.8 degrees (tele end)	48 degrees (wide end) to 2.8 degrees (tele end)	54 degrees (wide end) to 2.5 degrees (tele end)	56.2 degrees (wide end) to 2.4 degrees (tele end)	56.2 degrees (wide end) to 2.2 degrees (tele end)
Sync System	Internal/External (V-Lock)	Internal/External (V-Lock)	Internal/External	Internal/VD pulse lock (auto detect)	Internal/VD pulse lock (auto detect)
Minimum Illumination	0.7 lux (typical) (50 IRE) 0.05 lux (slow shutter mode at 1/4s)	0.7 lux (typical) (50 IRE) 0.05 lux (slow shutter mode at 1/4s) 0.01 lux (NightShot at 1/4s)	3.0 lux (typical) 0.2 lux (slow shutter mode at 1/4s) 0.02 lux (NightShot at 1/4s)	1.0 lux (30 IRE, AGC 34dB)	0.8 lux (30 IRE) 0.05 lux (IR filter OFF)0.008 lux (IR filter ON, 128 fields)
S/N Ratio	More than 50dB	More than 50dB	More than 50dB	More than 49dB	> 50dB (AGC Off)
Electronic Shutter	1/1 to 1/10,000 s	1/1 to 1/10,000 s	1/2 to 1/4,000 s	1/60 (50) to 1/10,000 sec (28 steps)	1/60 (50) to 1/10,000 sec
White Balance	Auto, ATW, Indoor, Outdoor, Manual	Auto, ATW, Indoor, Outdoor, Manual	Auto/Manual	Auto, Indoor, Outdoor, Manual	Auto, Indoor, Outdoor, Manual
Gain	Auto/Manual (-3 to 28 dB, 2 dB steps)	Auto/Manual (0 to 28 dB, 2 dB steps)	Auto/Manual	Auto/Manual (8dB to 38dB adjustable)	Auto/Manual (8dB to 38dB adjustable)
AE Control	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Wide Dynamic Range (WDR)	Auto, Manual, Exposure level, Back-light compensation	Auto, Manual, Exposure level, Back-light compensation
Exposure Level	-10.5 to +10.5 dB (1.5dB steps)	-10.5 to +10.5 dB (1.5dB steps)	Adjustable through 256 levels	Adjustable through 100 levels	Adjustable through 100 levels
Back-Light Compensation	On/Off	On/Off	Wide Dynamic Range On/Off	On/Off/Auto	On/Off/Auto
Focusing System	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual

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

HD6A High resolution color camera with an 18X optical zoom (48° wide angle and 2.8° telephoto). The HD6A is compatible with the entire line of HD6 dome housings.

HD6B High resolution Day/Night camera with an 18X optical zoom (48° wide angle and 2.8° telephoto). The HD6B is compatible with the entire line of HD6 dome housings.

HD6C High resolution Day/Night camera with an 23X optical zoom (54° wide angle and 2.5° telephoto). The HD6C is compatible with the entire line of HD6 dome housings.

HD6D High resolution color camera with an 23X optical zoom (56.2° wide angle and 2.4° telephoto). The HD6D is compatible with the entire line of HD6 dome housings.

HD6E High resolution Day/Night camera with an 25X optical zoom (56.2° wide angle and 2.2° telephoto). The HD6E is compatible with the entire line of HD6 dome housings.

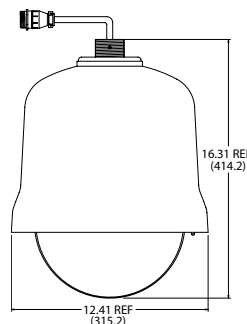
HD6 PRESSURIZED PTZ DOME

www.honeywellvideo.com

SPECIFICATIONS

Operational	
Angular Travel	Horizontal: 360° continuous Tilt: 0° horizontal to 90° down
Speed (Manual Mode)	Pan: variable from 0.10° to 400°/sec. Tilt: variable from 0.10° to 200°/sec.
Speed to Preshot	400°/sec. (<0.5 sec.)
PreShot Accuracy	<0.10° accuracy
PreShots Per Dome	Pan/tilt/zoom = 100
Video Tours (VectorScans)	10 per dome
PreShots Per Tour	64
Still Shot™ Feature	PreShot freeze-frame of video during tour
Patterns (Learn mode)	3 2-minute programmable PTZ tours
Sector Identification	16 independent sectors (zones)
Privacy Zones	10 programmable zones that blank the video when entered for privacy issues
Installation in Dome	Simple electrical quick disconnect and mechanical slide mount
Alarm Processing	4 on-board alarm inputs for dry contacts
Protocol Translation	Diamond, Maxpro, VCL and Pelco "P" & "D".
Auto-Homing	Activates Vectorscan tours and "Auto Learn" patterns. Dwell time is programmable up to 99 minutes
Flashback	Recalls the last PreShot position observed whether in manual, Vectorscan or Auto Learn (pattern) mode. PreShots can be toggled between last two
Digital Zoom label	Provides on-screen identification of digital zoom setting (ie 2x, 4x, 12x). User can select if On or Off.
24 VAC Line-Lock	Unit is 24 VAC line locked with 180° phase adjust.
Freeze Frame of Video	When activated, the unit freezes the video signal for assessment or recording
Receiver/Driver	Digital – on board Communication: RS-485 Numeric rotary switch addressability Battery-backed memory

Electrical	
Input Voltage	PTZ: 24 VAC ± 20%, 50/60Hz Heater/Blower: 24 VAC ± 20%, 50/60Hz
Power Consumption	PTZ: 22 W @ 24 VAC Heater/Blower: 96 W @ 24 VAC
Mechanical	
Dimensions	Housing: 16.31" H x 12.41" Dia Lower Dome: 9.50" Dia
Weight	17 lbs. (7.7 kg)
Construction	Housing, inner: Steel Housing, outer: White reflective acrylic Lower Dome: Vacuum formed, optically graded acrylic Sealing flange: 1/2" thick aluminum casting with O-ring seals Lower dome: compresses O-rings
Finish	Housing: White, polycarbonate Lower Dome: Clear or smoked, optically graded acrylic. Includes inner liner
Interior Pressurization	Dual Schraeder Valves for purging and pressurization. Single Over Pressure valve – factory set @ 7-10 lbs. Recommended: Dry nitrogen gas for pressurization only. Optional: Recharge kit model AVN001NRK
Environmental	
Operating Temperature	-50°F to 122°F (10°C to 50°C)
Regulatory	
Emissions	FCC: Part 15 Class A CE: EN50081-1
Immunity	CE: EN50082-1



HD6 PRESSURIZED PTZ DOME

www.honeywellvideo.com

SPECIFICATIONS

Components	
Dome Scan	
HDSA00N1	Scan 18X NTSC
HDSA00P1	Scan 18X PAL
HDSB00N1	Scan 18X TDN NTSC
HDSB00P1	Scan 18X TDN PAL
HDSC00N1	Scan 23X WDR & TDN NTSC
HDSC00P1	Scan 23X WDR & TDN PAL
HDSD00N1	Scan 23X NTSC
HDSD00P1	Scan 23X PAL
HDSE00N1	Scan 25X TDN NTSC
HDSE00P1	Scan 25X TDN PAL
Dome Housing (Standard RS485 Interface Board*)	
HDT0E000	Pressurized
Lower Dome	
HDB0W200	Smoked
HDB0W400	Clear

Accessories	
Fixed Camera Bracket	
KDF00M0000	Fixed mounting bracket converts any HD6 into a fixed camera. This fixed bracket allows PTZ and fixed camera to be easily interchanged
Compatible Devices	
HJZTP	PTZ Dome, DVR and Mux Telemetry Controller
HEGS5000	Standalone joystick for HD6 and KSX32080 matrix switcher
HDCD8TP	Code distribution unit, RS232 to RS485 converter
Power Supplies	
HPTV2401WPZ	24 VAC, 8 A with surge protection for power, video and data, NEMA 4X enclosure
HPV2401WPS	24 VAC, 8 A with surge protection for power and video, NEMA 4X enclosure
HPTV2401Z	24 VAC, 8 A with surge protection for power, video and data, indoor enclosure
HPTV2401S	24 VAC, 8 A with surge protection for power and video, indoor enclosure
Outdoor Mounts	
MDW1210W	Wall mount
DWM19S	Extreme condition wall mount
DPM15	Pendant mount
Mount Adapters	
CMA18W	Corner mount adapter for MDW1210W
CMA18BS	Corner mount adapter for DWM 19S
PMA7W	Pole mount adapter for MDW1210W
PMA18BS	Pole mount adapter for DWM 19S

Ordering	
<p>HOW TO ORDER</p> <p>Example: HD6BE1N1 = 18XTDN/Pressurized/Clear/NTSC/RS485</p>	<p>HD6 B E 1 N 1</p> <p>Series: HD6</p> <p>Camera: B</p> <p>Pressurized: E</p> <p>Lower Dome: 1</p> <p>Format: N</p> <p>Interface: 1</p> <p>Legend:</p> <ul style="list-style-type: none"> A = 18X Color B = 18X TDN C = 23X WDR & TDN D = 23X Color E = 25X TDN 1 = Clear 2 = Smoked N = NTSC P = PAL 1 = RS485 4 = CAT5

Honeywell Security
Honeywell Video Systems
2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299
800.796.CCTV
www.honeywell.com

HV-05-305
L/HD6PRES/D
March 2006
©2006 Honeywell International Inc.