

## HD6 VIP DIGITAL DOME

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### HIGH SPEED PTZ DOME WITH INTEGRATED IP FUNCTIONALITY

Honeywell's network ready HD6 VIP (Video Internet Protocol) Digital PTZ Dome offers professional-grade video surveillance using TCP/IP based, integrated network capability for live video transmission over Ethernet. The HD6 VIP Digital Dome is designed to be used with Honeywell's Digital Video Manager (DVM) and Fusion DVR, which combines the advantages of both digital video and networked products – enabling a flexible and scalable video surveillance solution.

The HD6 VIP Digital Dome offers the full range of features and functionality currently available in our HD6 Series domes, plus the integration of remote viewing and control over standard TCP/IP, the HD6 VIP Digital Dome excels in functionality. The VIP dome features high-quality motion JPEG images at up to 30 fps, providing excellent image quality while the user-level password protection feature restricts access to maintain full security. When combined with Honeywell's DVM system, the HD6 VIP Dome offers intelligent video analytics. For less complex installations, video and control can be accessed via a Web browser.

#### Market Opportunities

Honeywell's HD6 VIP Digital Dome is engineered to withstand the harshest of environments and equally blends into critical application requirements. Markets that demand extreme functional requirements and performance, such as retail, industrial, and traffic are finding the comprehensive feature set and durability of the HD6 Series to be an obvious choice in meeting their security needs. With Honeywell's DVM, Fusion and network ready HD6 VIP Dome, digital video solutions are enabling security and surveillance professionals to capture new business opportunities in the fast growing field of network video.

#### Features

- Live video monitoring over standard TCP/IP
- View Live Video and control (pan, tilt, zoom) the HD6 VIP Dome through a Web browser
- Compatible with Honeywell's DVM (Digital Video Manager) and Fusion DVR
- High quality motion JPEG images at up to 30 fps
- User level password protection for restricted camera access
- High-Resolution Color WDR and True Day/Night Cameras for extreme low-light performance
- Slow-speed shutter provides low-light color performance down to 0.008 lux
- 360° continuous pan rotation 2° to 90° tilt travel
- Variable pan speed 1/10° - 400° per second proportional to zoom
- 3, 2-minute PTZ mimic tours
- Up to 98 programmable PreShots with 24-character on-screen labels
- PreShot recall speed is less than 1/2 second
- 10 programmable VectorScans (video guard tours)
- 16 sector IDs with 24-character on-screen displays
- PreShot accuracy of 0.10°
- 10 privacy zones
- Auto data polarization with Diamond Protocol
- 4 on-board alarm inputs
- Auto-pivot tracking
- English, French, German, Italian, Polish or Spanish languages for programming menus & OSD
- Auto Homing feature can also activate Tours and Patterns with Dwell time up to 99 minutes
- Patented "Flashback" technology recalls last stored position



Indoor Pendant



Indoor Ceiling



Weather

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## SPECIFICATIONS

CAMERA	HD6A	HD6B	HD6C	HD6D	HD6E
<b>Image Sensor</b>	1/4" type EXview HAD CCD	1/4" type EXview HAD CCD	1/4" Progressive CCD	1/4" EXview CCD	1/4" EXview CCD
<b>Aspherical Lens</b>	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
<b>Horizontal Resolution</b>	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 470 TVL (NTSC) > 460 TVL (PAL)	> 480 TVL (NTSC) > 470 TVL (PAL)
<b>Digital Zoom</b>	12X (216X total zoom)	12X (216X total zoom)	4X (92X total zoom)	4X (92X total zoom)	4X (100x total zoom)
<b>Angle of View (H)</b>	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)
<b>Sync System</b>	Internal/External (V-Lock)	Internal/External (V-Lock)	Internal/External	Internal/VD pulse lock (auto detect)	Internal/VD pulse lock (auto detect)
<b>Minimum Illumination</b>	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)
<b>S/N Ratio</b>	More than 50dB	More than 50dB	More than 50dB	More than 49dB	> 50dB (AGC Off)
<b>Electronic Shutter</b>	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
<b>White Balance</b>	Auto, ATW, Indoor, Outdoor, Manual	Auto, ATW, Indoor, Outdoor, Manual	Auto/Manual	Auto, Indoor, Outdoor, Manual	Auto, Indoor, Outdoor, Manual
<b>Gain</b>	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)
<b>AE Control</b>	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
<b>Exposure Level</b>	-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
<b>Back-Light Compensation</b>	On/Off	On/Off	Wide Dynamic Range On/Off	On/Off/Auto	On/Off/Auto
<b>Focusing System</b>	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 Indoor Pendant, Indoor Drop Ceiling and Weather dome housings.

**HD6B** High resolution Day/Night camera with an 18X optical zoom (48° wide angle and 2.8° telephoto). The HD6A is compatible with the Indoor Pendant, Indoor Drop Ceiling and Weather dome housings.

**HD6C** High resolution Day/Night camera with an 23X optical zoom (54° wide angle and 2.5° telephoto). The HD6A is compatible with the Indoor Pendant, Indoor Drop Ceiling and Weather dome housings.

**HD6D** High resolution color camera with an 23X optical zoom (56.2° wide angle and 2.4° telephoto). The HD6A is compatible with the Indoor Pendant, Indoor Drop Ceiling and Weather dome housings.

**HD6E** High resolution Day/Night camera with an 25X optical zoom (56.2° wide angle and 2.2° telephoto). The HD6A is compatible with the Indoor Pendant, Indoor Drop Ceiling and Weather dome housings.

## HD6 VIP DIGITAL DOME

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### SPECIFICATIONS

Operational	
Angular Travel	Horizontal: 360° continuous Tilt: 2° above 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 = 98
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 for privacy issues
Installation in Dome	Simple electrical quick disconnect and mechanical slide mount
Alarm Processing	4 on-board alarm inputs for dry contacts

Operational Cont.	
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

Communication			
Network Protocols	TCP/IP, HTTP, FTP, SMTP, NTP, ARP, DHCP, BOOTP		
Compatibility	Windows® 2000, XP, NT, ME, and Linux		
Frame Rate	Up to 30 fps (NTSC), 25 fps (PAL)		
Network Connection	10BaseT/100BaseTX Ethernet (IEEE 802.3) RJ45 connector		
Video			
Resolution	QCIF: 176 x 112 (NTSC)/176 x 144 (PAL) CIF: 352 x 240 (NTSC)/352 x 288 (PAL) 4CIF: 704 x 480 (NTSC)/704 x 576 (PAL)		
Compression	Low	Medium	High
NTSC 352 x 240	3 KB	7 KB	10 KB
NTSC 704 x 480	13 KB	28 KB	43 KB
PAL 352 x 288	4 KB	8 KB	12 KB
PAL 704 x 576	20 KB	34 KB	52 KB

## HD6 VIP DIGITAL DOME

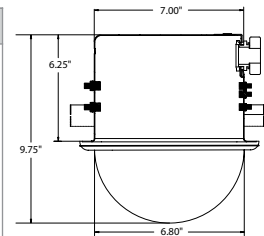
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### SPECIFICATIONS

#### Indoor Ceiling

Electrical	
Input Voltage	24 VAC @ 50/60Hz
Input Tolerance	24 VAC ± 20%
Power Consumption	22 W @ 24 VAC
Mechanical	
Dimensions	Housing: 6.25" H x 6.78" Dia Lower Dome: 6.75" Dia Trim Ring: 6.875" Dia
Weight	5.5 lbs. (2.5 kg)
Construction	<b>Housing:</b> Ceiling – Steel Lower Dome – Vacuum formed, optically graded acrylic

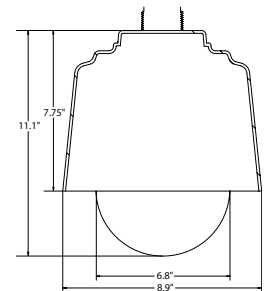
Mechanical (continued)	
Construction (continued)	<b>Finish:</b> Lower Dome – Clear or smoked, includes inner liner. Gold and chrome coatings available as special order items. Trim Ring – Black, white or gold
Environmental	
Operating Temperature	32°F to 104°F (0°C to 40°)
Regulatory	
Emissions	FCC: Part 15 Class A



#### Indoor Pendant

Electrical	
Input Voltage	24 VAC @ 50/60Hz
Input Tolerance	24 VAC ± 20%
Power Consumption	22 W @ 24 VAC
Mechanical	
Dimensions	Housing: 7.75" H x 8.98" Dia Lower Dome: 6.75" Dia Trim Ring: 6.875" Dia
Weight	6.6 lbs. (3.0 kg)
Construction	<b>Housing:</b> Inner – Steel Outer – Polycarbonate Lower Dome – Polycarbonate

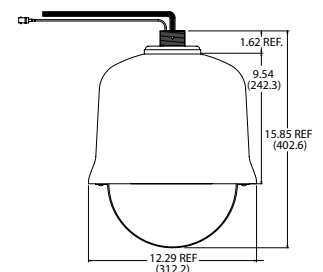
Mechanical (continued)	
Construction (continued)	<b>Finish:</b> Outer – White Polycarbonate Lower Dome – Polycarbonate Trim Ring – Polycarbonate
Environmental	
Operating Temperature	32°F to 104°F (0°C to 40°)
Regulatory	
Emissions	FCC: Part 15 Class A



#### Weather

Electrical	
Input Voltage	PTZ: 24 VAC @ 50/60Hz Heater/Blower 24 VAC @ 50/60Hz
Input Tolerance	24 VAC ± 20%
Power Consumption	PTZ: 22 W @ 24 VAC Heater/Blower 96 W @ 24 VAC
Mechanical	
Dimensions	Housing: 15.85"H x 12.29" Dia Lower Dome: 9.50" Dia
Weight	15 lbs. (6.8 kg)
Construction	<b>Housing:</b> Inner – Steel Outer – Reflective acrylic Lower Dome – Reflective acrylic

Mechanical (continued)	
Construction (continued)	<b>Finish:</b> Outer – White Polycarbonate Lower Dome – Clear or smoked, includes inner liner
Environmental	
Operating Temperature	-50°F to 122°F (-45°C to 50°C) (maintained by heater/blower)
Regulatory	
Emissions	FCC: Part 15 Class A



# HD6 VIP DIGITAL DOME

## SPECIFICATIONS

Components			
<b>Dome Scan</b>			
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		
<b>Dome Housing</b>			
HDT0D00D	Drop Ceiling		
HDT0P00D	Pendant		
HDT0W00D	Weather		
<b>Lower Dome</b>			
	<b>Type</b>	<b>Tint color</b>	<b>Trim Color</b>
HDB0DH00	Drop/Pendant	Smoked	White
HDB0DJ00	Drop/Pendant	Smoked	Black
HDB0D400	Drop/Pendant	Clear	Black
HDB0D500	Drop/Pendant	Clear	White
HDB0DA00	Drop/Pendant	Gold 1/2	Black
HDB0DB00	Drop/Pendant	Gold 1/2	White
HDB0DE00	Drop/Pendant	Chrome 1/2	Black
HDB0DF00	Drop/Pendant	Chrome 1/2	White
HDB0W200	Weather	Smoked	–
HDB0W400	Weather	Clear	–

Accessories	
<b>Indoor/Outdoor Mounts</b>	
MDW1210W	Wall mount
DWM19S	Extreme condition wall mount
DPM15	Pendant mount
PRM100B	Parapet roof mount, black
PRM100W	Parapet roof mount, white
<b>Mount Adapters</b>	
CMA18B	Corner mount adapter for MDW1210W, black
CMA18W	Corner mount adapter for MDW1210W, white
CMA18BS	Corner mount adapter for DWM19S
PMA7W	Pole mount adapter for MDW1210W
PMA18B	Pole mount adapter for DWM19S, black
PMA18W	Pole mount adapter for DWM19S, white
PMA18BS	Pole mount adapter for DWM19S
<b>Power Supplies</b>	
HPTV2401WPZ	24 VAC, 8 A with surge protection for power, video and data, NEMA 4X enclosure
HPTV2401WPS	24 VAC, 8 A with surge protection for power and video, NEMA 4X encl.
HPTV2401Z	24 VAC, 8 A with surge protection for power, video and data, indoor encl.
HPTV2401S	24 VAC, 8 A with surge protection for power and video, indoor enclosure
<b>Compatible Devices</b>	
DVM	Distributed IP-based video management system
Fusion Series DVR	Digital recording and transmission system

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## SPECIFICATIONS

**Ordering**

HOW TO ORDER

Example:  
**HD6BW1ND =  
18XTDN/Weather/Smoked/NTSC**

**HD6 B W 1 ND**

Series ——— |  
Camera ——— |  
A = 18X Color  
B = 18X TDN  
C = 23X WDR & TDN  
D = 23X Color  
E = 25X TDN

Housing ——— |  
D - In Ceiling  
P - Pendant  
W - Weather

Dome/Trim Ring ——— |  
Indoor  
1 = Smoked/Black  
2 = Smoked/White  
4 = Clear/Black  
5 = Clear/White

Outdoor  
1 = Smoked  
4 = Clear

Format ——— |  
ND = NTSC  
PD = PAL