Your one stop shop
for IP security solutions

IP Product Selection Guide

A complete IP solution

You can rely on Honeywell for the latest innovations to help you keep up with the IP video market. Because we're your one-stop shop for sales, support and service, you can rest assured that an IP solution backed by Honeywell will be easier to install and maintain. We make sure the products you choose will work the first time – and work together. Trust us to be the only source you need for everything IP.

So why **IP?**

IP Video surveillance continues to grow at a fast pace because integrators are seeing the value that it can provide. Driven by their need for higher performance and higher quality video, end users are looking for ways to incorporate fully accessible video surveillance solutions into their business while utilizing their existing IP infrastructure. Honeywell's complete line of IP video products provides the right solution for almost any application all from a single supplier.

• **Make Quick and Informed Decisions:** Superior image quality and full-frame-rate video lets users quickly identify threats or potential issues. Whether up close or zoomed in from afar, users can have a clear picture to make informed decisions.

• **Expand Business Applications:** Video is not just for catching theft or other evidence, but to help customers improve their overall business. Through cloud type services and web based interfaces, users can access their video information and monitor their businesses from anywhere.

• **Reduce Total Cost of Ownership:** Cost efficiencies and the convenience of leveraging existing network infrastructure helps reduce the overall cost of a system.

• **Protect Existing Investment:** Hybrid NVRs and video encoders help customers add new high-definition IP cameras to their system without having to replace all of their existing analog cameras until they are ready.

• **Improve Accessibility:** No longer are users tied to their servers or stations to view their video. Mobility is the key for real-time access to video information. With cloud and web applications driven through mobile apps, users can access their video information anytime, anywhere.

• **Reduce Installation Time and Costs:** IP solutions install quickly and easily with auto-discovery tools. Because IP cameras have a wider field of view than analog cameras, you can install fewer cameras, and therefore reduce costs.

• **Complete System Scalability:** Add one camera at a time or hundreds; from entry to enterprise, IP video solutions are easy to scale no matter the application.

Why Honeywell?

Migration to IP will be successful only if technology drives real, measurable value for security dealers and end users. This value is exactly where Honeywell has focused our R&D efforts – on developing IP products that:

- Are easy to install and easy to use
- Fit a broad range of applications that provide a real alternative to analog systems on everyday projects
- Can compete on performance with anything else in the marketplace

Our Open Technology Alliance forges strategic relationships with third-party manufacturers to give you ultimate flexibility when designing IP security systems. It allows you to capitalize on our open architecture and use the third-party equipment you already have in place to hold down costs and transition to IP with confidence and ease. Visit www.honeywellsecurity.com/hota to learn more.

Why partner with Honeywell for IP?

It's critical to partner with a leader who can open your world to the power of IP. For a complete IP security solution, open your door to the world's premier security provider. Customers have trusted us for over 80 years, and you can too, with an easy, cost-effective transition from analog to IP. Our IP solutions include:

- MAXPRO® VMS video management software
- A complete selection of recording devices
- A robust camera offering, including high definition cameras
- A wide range of system components including compatible software, encoders/decoders and keyboards

The price of IP is falling. The performance of IP is astounding. The time to migrate is now.

IP Cameras

Honeywell's IP camera portfolio includes a range of solutions, which meet varying feature requirements for indoor and outdoor applications, that are easy to operate and maintain no matter what the user's skill level – or their budget.

	System Series IP Mini Domes		
	1080p		
	H3W2GR1	**H3W2GR2**	**H3W4GR1**
Description	H.264 True Day/Night Low-Light, Wide Dynamic		
Housing Color	White		
Scanning System	Progressive Scan		
Image Sensor	1/2.7" 2 MP progressive CMOS		1/3" 4 MP progressive CMOS
Lens	2.7-12 mm, MFZ, F1.4	7-22 mm, MFZ, F1.4	2.7-12 mm, MFZ, F1.4
Minimum Illumination	0.01 lux color/0 lux with IR LEDs on @ F1.4		
Video Compression	H.264/H.264H/H.264B/MJPEG		
Resolution	1080p (1920x1080)/SXGA (1280x1024)/1.3M(1280x960)/ 720p (1280x720)/D1 (704x576/ 704x480)/ CIF (352x288/352x240)	4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video output on)/ 3M (2304x1296)/1080p (1920x1080)/SXGA (1280x1024)/1.3M (1280x960)/ 720p (1280x720)/D1 (704x576/704x480)/CIF (352x288/352x240)	
Frame Rate	720p 1-3 fps, D1 (704x480) 1-9 fps, CIF (352x240) 1-30 fps	720p 1-3 fps, D1 (704x480) 1-9 fps, CIF (352x240) 1-30 fps	1-20 fps (720p, D1-704x480, CIF-352x240)
On Board Video Storage (card not included)	Up to 128 GB microSDHC card Class 10 (not included)		
Audio/Two-Way	Line in/out		
Intelligent Video	Camera tamper detection and video motion detection		
S/N Ratio	50 dB or more		
Automatic Electronic Shutter	Auto, Manual, 1/3(4)-1/10 000 s		
Video Streaming	Up to triple stream support		
Security	Individual signed certificates and data encryption		
Power Consumption	12VDC/24VAC 9W max, PoE (802.3af) Class 0		
Input Voltage	12VDC +/-10%, 24VAC +/-10%, PoE IEEE 802.3af		
Standards	ONVIF Profile S and G compliant		
Indoor/Outdoor Mounts	H3G-CB: Replacement Dome (Clear), H3G-SB: Replacement Dome (Smoke), HD3-MK2: Wall Mount Bracket		

Rugged Bullet		IR Domes	

1080p			
HBL2GR1	**HBW2GR1**	**HBW2GR3**	**HBW4GR1**
H.264 True Day/Night Low-Light, Wide Dynamic			
White			
Progressive Scan			
1/2.7" 2 MP progressive CMOS 1/3" 4 MP progressive CMOS	1/2.8" 2 MP progressive CMOS	1/3" 4 MP progressive CMOS	1/3" 4 MP progressive CMOS
2.7-12 mm, MFZ, F1.4	7-22 mm, MFZ, F1.4	2.7-12 mm, MFZ, F1.4	2.7-12 mm, MFZ, F1.4
0.005 lux color/0 lux with IR LEDs on @ F1.4	0.01 lux color/0 lux with IR LEDs on @ F1.4	0.01 lux color/0 lux with IR LEDs on @ F1.4	0.005 lux color/0 lux with IR LEDs on @ F1.4
H.264/H.264H/H.264B/MJPEG			
4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video outputon)/3M (2304×1296)/1080p (1920×1080)/ SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/D1 (704×576/704×480)/CIF (352×288/352×240		1080p (1920×1080)/SXGA (1280x1024)/1.3M (1280×960)/720p(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)	
Up to 30 fps	Up to 15 fps	Up to 12 fps	1-30 fps (1080p, SXGA-1280x1024, 1280x960, 720p,D1-704x480)
Up to 128 GB microSDHC card Class 10 (not included)			
Line In/Out			
Camera tamper detection and video motion detection			
50 dB or more			
Auto, Manual, 1/3(4)–1/10 000 s			
Up to triple stream support			
Individual signed certificates and data encryption			
12VDC/24VAC 9W max, PoE (802.3af) Class 0			
12VDC +/-10%, 24VAC +/-10%, PoE IEEE 802.3af			
ONVIF Profile S and G compliant			
H3G-CB: Replacement Dome (Clear), H3G-SB: Replacement Dome (Smoke), HD3-MK2: Wall Mount Bracket			

IP Cameras

From the simplest to the most complex, Honeywell has an IP camera with crisp, high quality resolution so users can see objects in greater detail. There's a complete range of IP camera solutions for every application.

	System Series IP			
		IR Domes		
		1080p		
	HBW2GR3	**H4L2GR1**	**H4W2GR1**	**H4W2GR2**
Description	H.264 True Day/Night Ultra Low-Light, Wide Dynamic		H.264 True Day/Night Low-Light, Wide Dynamic	
Housing Color	Gray			
Scanning System	Progressive Scan			
Image Sensor	1/3" 4 MP progressive CMOS	1/2.7" 2 MP progressive CMOS	1/2.7" 2 MP progressive CMOS	1/2.8" 2 MP progressive CMOS
Lens	7–22 mm, MFZ, F1.4	2.7–12 mm, MFZ, F1.4	5-50 mm, MFZ, F1.4	2.7-12 mm, MFZ, F1.4
Minimum Illumination	0.01 lux color/0 lux with IR LEDs on @ F1.4	0.005 lux color/0 lux with IR LEDs on @ F1.4	0.005 lux color/0 lux with IR LEDs on @ F1.4	0.01 lux color/0 lux with IR LEDs on @ F1.4
Video Compression	H.264/H.264H/H.264B/MJPEG			
Resolution	4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video output on)/3M (2304×1296)/1080p (1920×1080)/ SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/ D1 (704×576/704×480)/CIF (352×288/352×240)	1080p (1920×1080)/ SXGA (1280x1024)/1.3M (1280×960)/ 720p(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)	1080p (1920×1080)/ SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/ D1 (704×576/704×480)/CIF (352×288/352×240)	4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video output on)/3M (2304×1296)/1080p (1920×1080)/ SXGA (1280x1024)/1.3M (1280×960)/720p (1280×720)/ D1 (704×576/704×480)/CIF (352×288/352×240)
Frame Rate	1-30 fps (1080p, SXGA-1280x1024, 1280x960, 720p, D1-704x480)	1-30 fps (1080p, SXGA-1280x1024, 1280x960, 720p, D1-704x480)	1-20 fps (2688x1520 with Analog video output off, 2560x1440); 1-30 fps (2304x1296, 1080p, SXGA-1280x1024, 1280x960, 720p)	1-20 fps (2688x1520 with Analog video output off, 2560x1440); 1-30 fps (2304x1296, 1080p, SXGA-1280x1024, 1280x960, 720p)
On Board Video Storage (card not included)	Up to 128 GB microSDHC card Class 10 (not included)			
Audio/Two-Way	Line In/Out			
Intelligent Video	Camera tamper detection and video motion detection			
S/N Ratio	50 dB or more			
Automatic Electronic Shutter	Auto, Manual, 1/3(4)–1/10 000 s			
Video Streaming	Up to triple stream support			
Security	Individual signed certificates and data encryption			
Power Consumption	HBL2GR1 PoE (802.3at) 24VAC 14.5W Class 4	24VAC 12W max (zoom/focus/IRs heater active), typical 10.5W PoE (802.3af) Class 0	12.5 W (max)	14.4 W (max)
Input Voltage	PoE IEEE 802.3af, Type 1, Class 3		12 V DC, 24 V AC PoE IEEE 802.3af, Type 1, Class 0	
Standards	ONVIF Profile S and G compliant			
Indoor/Outdoor Mounts	HBG-BB: Ip66 Back Box (for Cable Termination), HBG-FP: Front Lens Plate (for Replacement if Vandalized)		HB4G-PM: Pole Mount Bracket, HB34G-CM: Corner Mount Bracket, HD4CHIP-PK2: Pendant Mount Bracket, HD4CHIP-WK2: Wall Mount Bracket, H4G-CB: Replacement Dome (Clear), H4G-SB: Replacement Dome (Smoke)	

System Series IP				
IR Bullet		Rugged Domes		
1080p		1080p	3MP	5MP
HBW2GR3	HBD2FR2	H4D2S2	H4D3S2	H4D5S2
H.264 True Day/Night				
Cool Gray		White		
Progressive Scan				
1/2.7" CMOS		1/2.7" CMOS	1/3" CMOS	1/2.5" CMOS
3-9 mm MFZ	10-23 mm MFZ	3-9 mm MFZ		
0.18 lux color 0.15 lux BW at 50 IRE	0.14 lux color at 50 IRE	0.45 lux color 0.02 lux BW	0.3 lux color 0.01 lux BW	0.5 lux color 0.02 lux BW
H.264 and MJPEG				

IR Bullet stream table:

Resolutions	H.264 Bitrate (Typical)*	Frame Rate	Storage/ Day (GB)
1920 x 1080	3 Mbps	30	31.64
1280 x 720	1.4 Mbps	30	14.77
800 x 450	0.75 Mbps	30	7.91
640 x 360	0.4 Mbps	30	4.22
320 x 180	0.2 Mbps	30	2.11

Actual bit rate is scene and motion dependent with H.264 stream

Rugged Domes stream table:

Primary Stream Resolution	H.264 Bitrate (Typical)[1]	Frame Rate	Storage/ Day (GB)
2592 x 1944[2]	4.0 Mbps	12	42.2
2048 x 1536[3]	4.0 Mbps	15	42.2
1920 x 1080	4.0 Mbps	30	42.2
1280 x 1024	4.0 Mbps	30	42.2
1280 x 720	2.0 Mbps	30	21.1
1024 x 768	2.0 Mbps	30	21.1
800 x 600	2.0 Mbps	30	21.1
720 x 480	1.0 Mbps	30	10.5
640 x 480	1.0 Mbps	30	10.5
352 x 240	0.5 Mbps	30	5.3

[1] *Actual bit rate is scene and motion dependent with H.264 stream*
[2] *H4D5S2(X) cameras only*
[3] *H4D5S2(X) and H4D3S2(X) cameras only*

Up to 30 fps		Up to 15 fps	Up to 12 fps
	Up to 32 GB Micro SDHC (Class 10)		
Line input			
Camera tamper detection and video motion detection			
50 dB (AG C off) or more			
1/30-1/130,000 sec		1-1/10,000 sec	
Dual Streaming. Controllable frame rate and bandwidth. Constant or variable bit rate.		Quad Streaming. Controllable frame rate and bandwidth. Constant or variable bit rate.	
Multiple user access levels with password protection			
12.5 W (max)		14.4 W (max)	
PoE IEEE 802.3af, Type 1, Class 3		12 V DC, 24 V AC PoE IEEE 802.3af, Type 1, Class 0	
ONVIF Profile S support			
	H34S-IC In-Ceiling Mount H4SIP-PK Pendant, H4SIP-WK Wall Mounting Kit with Outdoor Housing and Sunshield		

IP Cameras

Honeywell's open, expanded line of IP cameras provide high quality resolution so users can see objects in greater detail. Users can zoom in from further distances using fewer cameras to cover a larger area.

	System Series IP		
	Box		
	1080p		
	HCL2G	**HCW2G**	**HCW4G**
Description	H.264 True Day/Night Ultra Low-Light, Wide Dynamic	H.264 True Day/Night Low-Light, Wide Dynamic	
Housing Color	Gray		
Scanning System	Progressive Scan		
Image Sensor	1/2.8" 2 MP progressive CMOS	1/2.7" 2 MP progressive CMOS	1/3" 4 MP progressive CMOS
Lens	Ordered separately, support for DC-iris lens		
Minimum Illumination	0.002 lux color/0.0002 lux BW @ F1.4	0.01 lux color/0.001 lux BW @ F1.4	
Video Compression	H.264 and MJPEG	H.264/H.264H/H.264B/MJPEG	
Resolution	1080p (1920x1080)/SXGA (1280x1024)/1.3 M (1280x960)/720p (1280x720)/D1 (704x576/704x480)/ CIF (352x288/ 352x240)	4M (2688x1520 with Analog video output off, or 2560x1440 with Analog video output on)/3M (2304x1296)/1080p (1920x1080)/SXGA (1280x1024)/1.3M (1280x960)/720p (1280x720)/D1 (704x576/704x480)/CIF (352x288/ 352x240)	
Frame Rate	1-30 fps (1080p, SXGA-1280x1024, 1280x960, 720p, D1-704x480)	1-20 fps (2688x1520 with Analog video output off, 2560x1440); 1-30 fps (2304x1296, 1080p, SXGA-1280x1024, 1280x960, 720p)	
On Board Video Storage (card not included)	Up to 128 GB microSDHC card Class 10 (not included)		
Audio/Two-Way	Line in/out		
Audio Compression	G.711a/G.711u/AAC		
Intelligent Video	Camera tamper detection		
S/N Ratio	50 dB (AGC off) or more		
Automatic Electronic Shutter	Auto, Manual, 1/3(4)–1/10 000 s		
Video Streaming	Up to triple stream support		
Security	Individual signed certificates and data encryption		
Users	20 users		
Power Consumption	12VDC/24VAC 6.5W max, PoE (802.3af) Class 0		
Input Voltage	12VDC +/-10%, 24VAC +/-10%, PoE IEEE 802.3af		
Standards	ONVIF Profile S and G compliant		
Indoor Mounts	HBC5WT Wall/Ceiling Mount, White		
Environmental Housing	-22ºF to 140ºF		
Indoor/Outdoor Mounts			

IP Cameras

System Series IP HDZ PTZ Domes		
480K	**1080p 22x**	**1080p 30x**
HDZ30/HDZ30IN/HDZ36E	HDZ22HD/HDZ22HDIN/HDZ22HDE	HDZ302LIW/HDZ302LIK
H.264 True Day/Night, Wide Dynamic Range		
White		
Interlaced Scan	Progressive Scan	
1/4" Sony CCD	1/1.9 in. Sony Progressive CMOS	
Indoor HDZ30: 3.4 to 102 mm, Outdoor HDZ36E: 3.4 to 122.4 mm	4.3-94.6 mm	6.0-180 mm
0.08 lux color 0.005 lux BW	0.005 lux (color)/0.0005 lux (B/W) @ F1.6; 0 lux IR On	
H.264 and MJPEG	H.264 / MJPEG / MPEG4	
D1: NTSC 720x480 CIF: NTSC 352x240	Up to 1920x1080p	
Up to 60 fps	Up to 30 fps	
Up to 32 GB Micro SDHC (Class 10)		
Line in/out		
G.711/G.726 ADPCM/AAC	G.711/G.711Mu	
Privacy Zones and Motion detection		
> 50 dB (AG C off) or more		
1-1/10,000 sec	1/1 to 1/30,000 sec	
Up to triple stream support		
Individual signed certificates and data encryption		
20 users		
Indoor-Pendant HDZ30/In-Ceiling HDZ30IN :20W Outdoor HDZ36E: 57W with heater	Indoor pendant HDZ22HD/In-Ceiling HDZ22HDIN: 20W Outdoor HDZ22HDE: 50W with heater	HDZ302LIW: 24 W; 32 W (IR On) HDZ302LIK: 24 W; 38 W (IR On)
Indoor HDZ30/HDZ30IN: 24 V AC or PoE+ Outdoor HDZ36E: 24 V AC or PoE++	Indoor HDZ22HD/HDZ22HDIN: 24 V AC or PoE+ Outdoor HDZ22HDE: 24 V AC	24VAC or PoE++
ONVIF Profile S compliant		
HDXWM2 - Wall Mount, HDZHINKIT - In Ceiling back can, HDZINBKT - In Ceiling mounting bracket, used to retrofit pendant to In-Ceiling		
Indoor Models: 32°F to 104°F, Outdoor HDZ36E: −49°F to 122°F, HDZ22HDE and HDZ30HDIN: −−40°F to 158°F		
HDZWM1: Wall Mount, HDZCMA: Corner Mount adapter for Wall Mount, HDZCM1: Ceiling Mount, HDZJB: Junction Box, HDZWM2: Wall Mount with access hole, HDZPMA: Pole Mount adapter for wall mount		

IP Recording Devices

	Performance Series IP Cameras			
	1.3 MP	3 MP	3 MP	
	HED1PR3	HED3PR3	H4D3PRV2	H4D3PRV3
Description	H.264 True Day/Night			
Housing Color	White			
Scanning System	Progressive Scan			
Image Sensor	1/3" CMOS			
Lens	2.8 mm		2.7-12 mm MFZ	2.8 mm
Minimum Illumination	.08 lux color	0.045 lux color	0.1 lux color	
Video Compression	H.264 and MJPEG			

Resolution											
	Primary Stream Resolution	Bit Rate H.264 (Typical)*	Frame Rate	Storage/Day (GB)	Primary Stream Resolution	Bit Rate H.264 (Typical)*	Frame Rate	Storage/Day (GB)	Primary Stream Resolution	Bit Rate H.264 (Typical)*	Frame Rate	Storage/Day (GB)
	1.3 MP (1280×960)	1157kbps	30	11.9	3 MP (2304×1296)	1179kbps	20	12.1	3 MP (2304x1296)	1146kbps	20	11.8
	720p (1280×720)	1119kbps	30	11.5	1080p (1920×1080)	1690kbps	30	17.4	1080p (1920×1080)	1651kbps	30	17
	D1 (704×480)	430kbps	30	4.4	720p (1280×720)	568kbps	30	5.9	720p (1280×720)	529kbps	30	5.4
	CIF (352×240)	197kbps	30	2	D1 (704×480)	339kbps	30	3.5	D1 (704×480)	316kbps	30	3.3
					CIF (352×240)	185kbps	30	1.9	CIF (352×240)	171kbps	30	1.8

Frame Rate	Up to 30 fps			
On Board Video Storage (card not included)	Up to 128 GB Micro SDHC (Class 10)			
Audio/Two-Way				
Audio/One-Way				
Intelligent Video	Camera tamper detection and video motion detection			
S/N Ratio	50 dB (AG C off) or more			
Automatic Electronic Shutter	1/3-1/30,000 sec		1/3(4)-1/100,000 sec	1-1/100,000 sec
Video Streaming	Dual Streaming. Controllable frame rate and bandwidth. Constant or variable bit rate.			
Security	Multiple user access levels with password protection			
Power Consumption	<3.8 W (IR On)	<3.7 W (IR On)	<8.5 W (IR On)	<4.7 W (IR On)
Input Voltage	12 V DC, PoE 802.3af			
Standards	ONVIF Profile S support			
Housing Rating	IP66		IP66 & IK10	
Indoor Mounts	HQA-WK Wall Mount and HBS2-BB Junction Box			
Indoor/Outdoor Mounts				
Mobile APP	HonView Touch for iPhone, iPad, Android Phone & Tablets			

IP Cameras

	Performance Series IP Cameras		
	IR Bullet		
	1.3 MP	**3 MP**	
	HBD1PR1	HBD3PR1	HBD3PR2
Description	H.264 True Day/Night		
Housing Color	White		
Scanning System	Progressive Scan		
Image Sensor	1/3" CMOS		
Lens	3.6 mm		2.7-12 mm MF
Minimum Illumination	0.08 lux color	0.045 lux color	0.1 lux color
Video Compression	H.264, H.264H, H.264B and MJPEG		
Resolution	Primary Stream Resolution / Bit Rate H.264 (Typical)* / Frame Rate / Storage/Day (GB): 1.3 MP (1280×960) 1132kbps 30 11.7; 720p (1280×720) 1087kbps 30 11.2; D1 (704×480) 387kbps 30 4; CIF (352×240) 174kbps 30 1.8	Primary Stream Resolution / Bit Rate H.264 (Typical)* / Frame Rate / Storage/Day (GB): 3 MP (2304x1296) 1096kbps 20 11.3; 1080p (1920×1080) 1595kbps 30 16.4; 720p (1280×720) 513kbps 30 5.3; D1 (704×480) 294kbps 30 3; CIF (352×240) 165kbps 30 1.7	
Frame Rate	Up to 30 fps		
On Board Video Storage (card not included)			Up to 128 GB Micro SDHC (Class 10)
Audio/Two-Way			
Audio/One-Way			
Intelligent Video	Camera tamper detection and video motion detection		
S/N Ratio	50 dB (AG C off) or more		
Automatic Electronic Shutter	1/3-1/30,000 sec	1-1/100,000 sec	1/3(4)-1/100,000 sec
Video Streaming	Dual Streaming. Controllable frame rate and bandwidth. Constant or variable bit rate.		
Security	Multiple user access levels with password protection		
Power Consumption	<4.8 W (IR On)	<4.7 W (IR On)	<8.5 W (IR On)
Input Voltage	12 V DC, PoE 802.3af		
Standards	ONVIF Profile S support		
Housing Rating	IP66		
Indoor Mounts	HBS2-BB Junction Box		
Indoor/Outdoor Mounts			
Mobile APP	HonView Touch for iPhone, iPad, Android Phone & Tablets		

IP Recording Devices

Hybrids offer powerful high definition IP recording and security monitoring for small to medium installations.
They also support analog cameras to ease the transition from analog to IP.

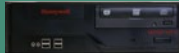|	Performance Series IP Embedded NVRs		
	4ch (4 PoE)	8ch (8 PoE)	16ch (8 PoE)
Video Inputs	4	8	16
IP Streams	4	8	16
Video Analytics	NA		
Video Outputs (Local)	1 HDMI; 1 VGA		
IPS Recorded	120	240	480
Compression	H.264 / MJPEG		
Record Resolution	5MP (2560 x 1920); 4MP (2688 x 1520 and 2560 x 1440); 3MP (2304 x 1296 and 2048 x 1536); 1080p (1920 x 1080); 720p (1280 x 720); D1 (704 x 480); SXGA (800 x 600); 1.3MP (1280 x 1024)		
Operating System	Windows® XP; Windows Vista; Windows 7		
Internal Storage	2 SATA ports; up to 12 TB; RAID (redundancy)		
Bidirectional Audio Channels	1 channel input; 1 channel output; RCA		
Alarm Inputs/Control Outputs	4/2		
USB Ports	2 ports: USB 3.0 on rear panel; USB 2.0 on front panel		
Network Ports	1 port RS232, 1 port RS485, 1 port RJ-45		
Max Number Of Users	20		
Smart Device Compatibility	Apple® and Android™ devices (smartphones, tablet computers, and laptops)		
Mobile App	Yes		
Dimensions (WxDxH)	14.8 x 11.2 x 2.1 inches (375 x 285 x 52.6 mm)	14.8 x 12.6 x 2.1 inches (375 x 320 x 53 mm)	

	Hybrid Recorders		
	MAXPRO NVR Hybrid XE (Xpress Edition)	**MAXPRO NVR Hybrid SE** (Standard Edition)	**MAXPRO NVR Hybrid PE** (Professional Edition)
Analog Video Inputs	16 (Looping with accessory cable), BNC	16 Looping, BNC	16 (BNC with accessory cable)
IP Streams	Up to a combined total of 16 channels of analog and IP cameras	Up to a combined total of 64 channels of analog and IP cameras	Up to a combined total of 64 channels of analog and IP cameras
Video Analytics	Analog Cameras: Server based VMD (SMART VMD) IP Cameras: Server based VMD (SMART VMD) or Camera based - Motion, Blur, Blinding, Scene Change		
Data Capture (POS/ATM/ALARM)	Yes Alarm Integrated with POS/ATM Optional (IDM)		
Video Outputs (Local)	Main out: HDMI or VGA or DVI-D or Display port, Spot out: RCA		Main out: HDMI cw DVI-D to HDMI adapter or VGA or DVI-D or Display port, Spot out: RCA
IPS Recorded	16 channels with all 16 analog at 480 fps @ CIF or 120 fps @ 4CIF, combination of 8 analog with 100 fps @ 4CIF and 8 IP with 240 fps @ 720p HD or 240 fps @ 1080p (4 Mbps bitrate) HD **OR** all 16 IP with 480 fps @ 4CIF/VGA/720p HD or480 fps @ 1080p (4 Mbps bitrate) HD. Network bandwidth/throughput - Incoming: 65 Mbps, Outgoing: 180 Mbps, Total: 245 Mbps	64 channels with combination of 16 analog with 480 fps @ CIF or 120 fps @ 4CIF and 48 IP with 1440 fps @ 1080p (4 Mbps bitrate) HD OR all 64 IP with 1920 fps @ 720p HD **OR** 1280 fps @ 1080p (4 Mbps bitrate) HD. Network bandwidth/throughput - Incoming: 160 Mbps, Outgoing: 350 Mbps, Total: 510 Mbps	64 channels with combination of 16 analog with 480 fps @ CIF or 120 fps @ 4CIF and 48 IP with 1440 fps @ 1080p (4 Mbps bitrate) HD **OR** all 64 IP with 1920 fps @ 720p HD or 1920 fps @ 1080p (4 Mbps bitrate) HD. Network bandwidth/throughput - Incoming: 256 Mbps, Outgoing: 425 Mbps, Total: 681 Mbps
Compression	MJPEG, MPEG-4, H.264. IP camera dependent		
Record Resolution	Analog: 360x240, 720x240, 720x480 IP camera dependent		
Operating System	Windows Embedded Standard 7 SP1, 64-bit		
Internal Storage	1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 12TB fixed drives	1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 9 TB, 12 TB, 16 TB, 18 TB, 24 TB, 4 removable drives	4 TB to 48 TB raw storage, RAID 5/6 support, 8 removable drives
Audio Channels	IP camera dependent. 1 audio per video		
Alarm Inputs/ Control Outputs	16 inputs, 16 outputs, 1 analog PTZ control (RS485)		16 inputs, 4 outputs, 1 analog PTZ control (RS485)
DVD Drive	DVD-RW		
USB Ports	6 ports		
Dimensions (WxDxH)	17.8" x 16.3" x 3.5"	21.75" x 17.3" x 7"	16.9" x 26" x 3.5"
Networks Ports	2		
Software			
OS Support for the Remote Viewing Software	Desktop Client: Windows 7 Professional 32/64-bit SP1, Windows 8.1, Windows 10, Windows Server 2012 R2 Windows Server 2008 R2 SP1; Web Client: Windows, Mac; Mobile App: iOS, Android		
Local User Interface	Yes		
Graphical User Interface	Yes		
Live Video	Yes		
PTZ Control	Desktop Client: Yes, Web Client, Mobile App: Presets		
Audio	Desktop Client: Yes		
Retrieve	Yes		
Clip Generation	Desktop Client: Yes (video & audio)		
Searches	Desktop Client: Time/date timeline, time jump FWD/REV, bookmarks, calendar, preview, film strip SMART Motion Search and event search		
Remote Access Software	Included (Desktop and Web Client, Mobile App), Free multi-site: MAXPRO Viewer		
Remote View Software Capacity - Per Recorder			
Max Live Video Streams	Desktop Client: 256, Web Client: 64		
Max Video Retrieval Sessions	Desktop Client: 32, Web Client: 32		
Users	1024		
Alarm Notification	Desktop Client, Mobile App: Yes		

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IP Recording Devices

Learn one, know them all! The MAXPRO® Series is a complete and flexible portfolio of IP video management hardware and software with solutions that are scalable for small to large applications.

	Hardware NVRs (Boxed)		
	MAXPRO NVR XE (Xpress Edition)	**MAXPRO NVR SE** (Standard Edition)	**MAXPRO NVR PE** (Professional Edition)
Video Inputs	Max 8 or 16	Max 64	Max 64
IP Streams	Up to 8/16	Up to 64	Up to 64
Video Analytics	IP Cameras: Server based VMD (SMART VMD) or Camera based - Motion, Blur, Blinding, Scene Change		
Data Capture (POS/ATM/ALARM)	Yes - Alarm Integrated through camera based IO, POS/ATM Optional (IDM)		
Video Outputs (Local)	HDMI or VGA or DVI-D or Display port	HDMI or VGA or DVI-D or Display port	HDMI cw DVI-D to HDMI adapter or VGA or DVI-D or Display port
IPS Recorded	480@4CIF/VGA or 480@720p HD or 480@1080p (4 Mbps bitrate) HD Network bandwidth/throughput Incoming: 65 Mbps, Outgoing: 180 Mbps, Total: 245 Mbps	1920@4CIF/VGA or 1920@720p HD or 1280@1080p (4 Mbps bitrate) HD Network bandwidth/throughput - Incoming: 160 Mbps, Outgoing: 350 Mbps, Total: 510 Mbps	1920@4CIF/VGA or 1920@720p HD or 1920@1080p (4 Mbps bitrate) HD Network bandwidth/throughput - Incoming: 256 Mbps, Outgoing: 425 Mbps, Total: 681 Mbps
Compression	MJPEG, MPEG-4, H.264. IP camera dependent		
Record Resolution	Various settings including HD IP camera dependent		
Operating System	Windows Embedded Standard 7 SP1, 64-bit		
Internal Storage	1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 12 TB Fixed drives	1 TB, 2 TB, 3 TB, 4 TB, 6 TB, 8 TB, 9 TB, 12 TB, 15 TB, 16 TB, 18 TB, 20 TB, 24 TB, 30 TB, 36 TB, 6 removable drives	4 TB to 48 TB raw storage, RAID 5/6 support, 8 removable drives
Audio Channels	IP camera dependent. 1 audio per video		
Alarm Inputs/Control Outputs	Camera dependent		
DVD Drive	Yes	Yes	Yes
USB Ports	8 ports	7 ports	6 ports
Network Ports	2	2	2
Dimensions (WxDxH)	13.00" x 15.66" x 3.78"	19.0" x 27.0" x 3.5"	16.9" x 26" x 3.5"
Software			
OS Support for the Remote Software	Desktop Client: Windows 7 Professional 32/64-bit SP1, Windows 8.1, Windows 10, Windows Server 2012 R2 Windows Server 2008 R2 SP1; Web Client: Windows, Mac; Mobile App: iOS Android		
Local User Interface	Yes		
Graphical User Interface	Yes		
Live Video	Yes		
PTZ Control	Desktop Client: Yes, Web Client, Mobile App: Presets		
Audio	Desktop Client: Yes		
Retrieve	Yes		
Clip Generation	Desktop Client: Yes (video and audio)		
Searches	Desktop Client: Time/date timeline, time jump FWD/REV, bookmarks, calendar, preview, film strip SMART Motion Search and event search		
Remote Access Software	Included (Desktop and Web Client, Mobile App), Free multi-site: MAXPRO Viewer		
Remote View Software Capacity Per Recorder			
Max Live Video Streams	Desktop Client: 256, Web Client: 64, Mobile App:16 (Live + Playback)		
Max Video Retrieval Sessions	Desktop Client: 32, Web Client: 32, Mobile App:16 (Live + Playback)		
Users	1024		
Alarm Notification	Desktop Client, Mobile App Yes		

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	Software NVRs	
	MAXPRO NVR Software	**Enterprise System**
Video Inputs	Max 4, 8, 16, 32, 48 or 64	Unlimited
IP Streams	Up to 4, 8, 16, 32, 48 or 64	999,000
Video Analytics	IP Cameras: Server-based VMD (SMART VMD) or Camera based - Motion, Blur, Blinding, Scene Change	Standard motion detection included on unlimited channels Advance motion detection optional per channel
Data Capture (POS/ATM/ALARM)	Yes - Alarm Integrated through camera based IO, POS/ATM Optional (IDM)	Yes Alarm Integrated with POS/ATM Optional
Video Outputs (Local)	Server hardware dependent	Workstations optional, decoder outputs
IPS Recorded	Server hardware dependent - Minimum hardware specs recommended for various IPS	System dependent
Compression	MJPEG, MPEG-4, H.264 IP camera dependent	Analog, MJPEG, MPEG-1, MPEG-2, MPEG-4, H.264
Record Resolution	Various settings include HD IP camera dependent	IP Camera dependent
Operating System	Windows 7 Professional 32-bit or 64-bit SP1, Windows 8.1, Windows 10, Windows Server 2012 R2, Windows Server 2008 R2 SP1, Virtualization - VMware	Windows XP, Windows 7 Professional/Ultimate (64-bit), Windows 2003 Server, Windows 2008 Server R2 (64-bit)
Internal Storage	Server hardware dependent	Server hardware dependent
Audio Channels	IP camera dependent, 1 audio per video	1 audio per video
Alarm Inputs/Control Outputs	Camera dependent	Optional unlimited Integrated optional
DVD Drive	Server hardware dependent	Server hardware dependent
USB Ports	Server hardware dependent	Server hardware dependent
Network Ports	Server hardware dependent	Server hardware dependent
Dimensions (WxDxH)	Server hardware dependent	Server hardware dependent
Software		
OS Support for the Remote Software	Desktop Client: Windows 7 Professional 32/64-bit SP1, Windows 8.1, Windows 10, Windows Server 2012 R2, Windows Server 2008 R2 SP1; Web Client: Windows, Mac; Mobile App: iOS Android	Windows XP, Windows 7 Professional/Ultimate (64-bit), Windows 2003 Server, Windows 2008 Server R2 (64-bit)
Local User Interface	Yes	Yes
Graphical User Interface	Yes	Yes
Live Video	Yes	Yes
PTZ Control	Desktop Client; Yes, Web Client, Mobile App: Presets	Yes
Audio	Desktop Client: Yes	Yes
Retrieve	Yes	Yes
Clip Generation	Desktop Client: Yes (video and audio)	Video and audio
Searches	Desktop Client: Time/date timeline, time jump FWD/REV, bookmarks, calendar, preview, film strip, SMART Motion Search and event search	Time/date, motion event, preview, object, status, data, event
Remote Access Software	Included (Desktop and Web Client, Mobile App), Free multi-site: MAXPRO Viewer	Licensed or web viewer
Remote View Software Capacity Per Recorder		
Max Live Video Streams	Desktop Client: 256, Web Client: 64, Mobile App:16 (Live + Playback)	Hardware dependent
Max Video Retrieval Sessions	Desktop Client: 32, Web Client: 32, Mobile App:16 (Live + Playback)	Near unlimited
Users	1024	Near unlimited
Alarm Notification	Desktop Client, Mobile App: Yes	Yes

IP Video Management System

MAXPRO® VMS (video management system) controls multiple sources of video subsystems in a facility to collect, manage and present video in a clear and concise manner. By determining the capabilities of each subsystem across various sites, MAXPRO VMS allows video management of any analog or digital video device through a unified configuration and viewer.

	MAXPRO VMS	MAXPRO Lite	MAXPRO Viewer
Maximum Number of Cameras	64, Unlimited upgrade	64, Upgrade to 128 max	1600
Maximum Number of Clients	1, Unlimited upgrade	1, Upgrade to 3 max	5
Video Export Format	Secure Data Container, MPEG, WMV, AVI (depends on DVR/NVR)		
Video Digital Certificate	Yes, includes verification utility/viewer		
Reporting	Yes, report system and user events		No
Access Control Integration*	Yes, Pro-Watch® and third-party alarms, simple ASCII interface also available	Yes, Pro-Watch and simple ASCII interface also available	Yes, Pro-Watch
Matrix Switcher Integration*	Yes, VideoBloX, MAXPRO and third-party switchers	Yes, VideoBloX and MAXPRO	No
True Hybrid Matrix	Yes, view analog cameras on digital monitors and analog matrix		No
DVR/NVR Integration*	Yes, Rapid Eye, Fusion, Enterprise, MAXPRO NVRs (hardware and software), IP Engine (DVM upgrade) and third-party recorders		Yes, Rapid Eye, Fusion, Enterprise, MAXPRO NVRs (hardware and software), HRXD
SDK Availability	Yes, powerful SDK available for third-party integration		No
Support for Video Analytics	Yes, server or camera based, NVR/DVR specific		No
MAXPRO VMS Server Redundancy	Yes		No
NVR/DVR Redundancy	Yes, NVR/DVR specific		
Encoder Redundancy	Yes, encoder specific		Not applicable
Centralized Management	Yes, manage all users and devices locally or remotely		No
Operating System	Windows 7 Professional 32-bit or 64-bit SP1, Windows 8.1, Windows 10, Windows Server 2012 R2, Windows Server 2008 R2 SP1, Virtualization - VMware Windows Server 2008 R2 SP1, Virtualization - VMware		
Database Format	SQL Express optional full SQL		SQL Express
Macro Language	Yes, create elaborate custom actions based on system events and user inputs		No
Map Function	Yes		No
Alarm Management	Advanced alarm management lets you view video captured before, during and after every alarm, and you can also view live video from the camera that recorded the alarm		
Video Wall	Yes, control any system monitor digital or analog from any workstation or UltraKey controller keyboard		No
Custom Salvo	Yes, create custom "My Salvo" and "Shared Salvo"		Yes, "Shared Salvo"
Operator Messaging	Yes, broadcast message to another operator or monitor with video push		No
Video Surround	Yes, associate nearby cameras to one another for rapid tracking		
Live Video Controls	Sharpness, blur, brightness, contrast, hue, saturation, maintain aspect ratio, stretched, original size and picture mirror, interlace and de-interlace (NVR/DVR specific)		
Search Types	Time/date timeline, snapshot, jump FWD/REV, bookmarks, events		Time/date timeline, snapshot, jump FWD/REV, events

*For a complete list of integrations, visit the Honeywell Open Technology Alliance website at www.honeywellsecurity.com/hota.

IP System Components

Honeywell's IP portfolio includes a wide range of system components including compatible software, encoders, decoders and keyboards.

Encoders/Decoders

HVE1
1 Channel Encoder

HVE4
4 Channel Encoder

HVE8
8 Channel Encoder

Video encoders utilize the latest processors and encoding technology to convert analog camera signals into IP streams.

Keyboards

UltraKey Plus HJK7000
Video management
color touchscreen
programmable keyboard

UltraKey Lite HJC5000
Video management touchscreen
programmable keyboard

UltraKey Touch HJC4000
Digital video recorder and
PTZ dome controller

Data Analytics Software

Data Analytics
IDM (Integrated Data Manager)
Video and data transaction integration
(POS, Gaming, ATM, ASCII data ETC.))

Choose Honeywell...
and begin the transition to IP
security with confidence and ease.

For more information **call 1-800-323-4576**
or visit **www.honeywellvideo.com**

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