Honeywell
THE POWER OF **CONNECTED**

Security

VIDEO SURVEILLANCE GUIDE 2018-3

VIDEO
SURVEILLANCE SYSTEMS

The reliability, integrity and dependability of our video systems ensure that you can meet all of your existing and future security challenges with complete confidence. Our solutions range from IP and analogue cameras and digital and network video recorders, through to intelligent video analytics and sophisticated video management systems.

Download our free "Cameras & NVRs" App All our video products on your device...

or visit:

http://www.security.honeywell.com/uk

GET IT ON **Google Play**

Download on the **App Store**

PROTECTION AND PEACE OF MIND FROM HONEYWELL

There's a Honeywell Security system for every lifestyle, budget and need, and it does more than keep you and your employees safe and secure. With our extensive technology portfolio, experienced team and trusted brand, we are recognised as the "partner of choice" within the security industry. Here are a few reasons why:

• Truly Global Footprint

Honeywell Security operate directly in 100+ cities worldwide providing local support to our customers. Our products are globally available through a network of trained and certified system integrators, installers and distributors. Through a highly selective process, we choose only the most qualified security partners to join our elite program. We are also able to support customers internationally with our Global Customer Accounts program.

• Product Quality

At a product level, Honeywell's CCTV range was specifically developed to meet the stringent needs of the global CCTV market and be fully compliant with all local regulatory requirements in the markets our products are sold in, eg. CE, UL etc...

• Integrated Solutions

Honeywell is leading the connected building systems globally to bring together all its products into a connected platform. This enables significant efficiencies for end users and system operators by helping to reduce the total cost of ownership across multiple electronic low voltage systems.

• Scalable Systems – A Solution for Every Need

Honeywell offers connected solutions for all situations starting with standalone systems for small and medium businesses all the way up to large multi-site critical infrastructure projects. Whether you are a small business or the largest commercial enterprise, Honeywell has the right security solution for you.

• Long Term Presence

Honeywell Security is one of the largest suppliers of electronic security products in the world and is backed by the corporate resources of the global Honeywell business. We are proud of our ability to support our loyal customer installation base. Our size and resources mean that you can be confident that Honeywell will still be around for many decades to come.

• New Product Development

Our products are continuously updated to ensure we stay abreast of changing market requirements whilst maintaining excellent durability and reliability. You can therefore be confident that if you use our products, they will have a long and effective working life.

• Single Source Of Supply

Honeywell is one of the largest and oldest companies globally not only for Video Surveillance systems but also offering a complete portfolio of low voltage systems such as Intrusion systems, Access control, Fire, Public Address/Voice Alarm, Building Management systems and others to create a truly Connected Building for end users. This allows end users to buy all their systems from a single vendor for added convenience and reliability for end-to-end support.

• Cyber Security

At Honeywell, we take the cyber security very seriously and ensure all new products and existing products are continually maintained to nsure the highest levels of cyber security to protect our customers from any known vulnerabilities.

• Code of conduct

Honeywell is committed to observing the highest levels of ethics in all our business transactions.
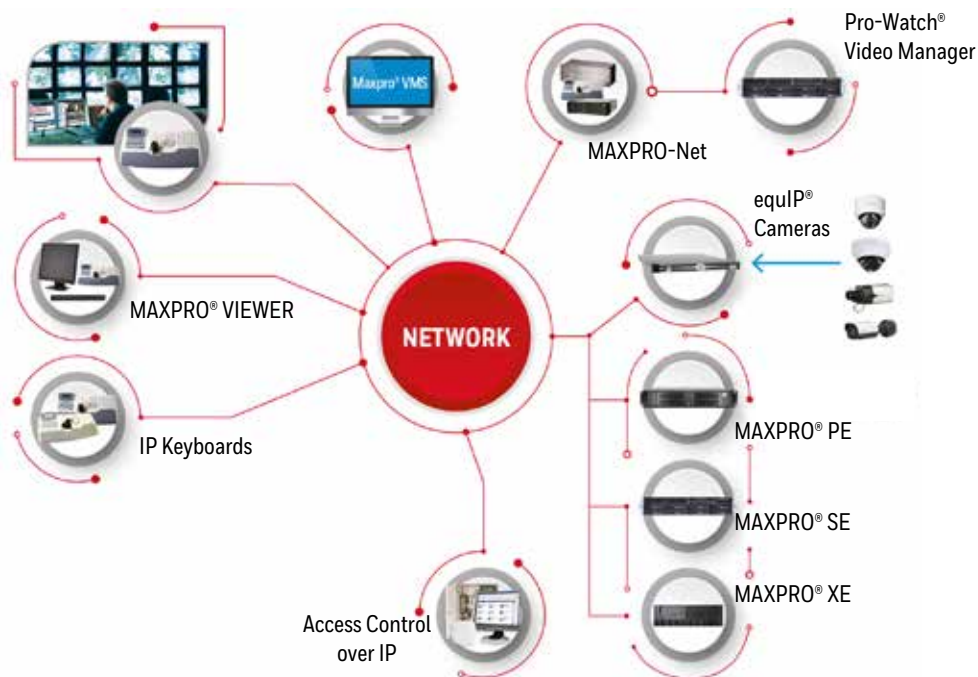
MAXPRO® VMS
Video Management System

MAXPRO® VMS controls multiple sources of video subsystems to enhance the user's video surveillance experience with maximum efficiency and minimum effort.

Using an open architecture and IP-based systems, MAXPRO VMS leverages an existing video infrastructure to collect, manage and present video in a clear and concise manner.

MAXPRO® VMS System Diagram

Pro-Watch® Video Manager

MAXPRO-Net

equIP® Cameras

MAXPRO® VIEWER

IP Keyboards

Access Control over IP

MAXPRO® PE

MAXPRO® SE

MAXPRO® XE

MAXPRO VMS – Single Command and Control Interface

Integrated Video and Security Management System MAXPRO VMS and Pro-Watch®
The integration of MAXPRO VMS and Pro-Watch affords superior access control with alarm monitoring and video capabilities.

Next Generation Vision MAXPRO VIEW Client Software
MAXPRO VIEW is the feature-rich next generation viewer that works with MAXPRO VMS to help operators intuitively perform video operations, thereby increasing personal productivity and responsiveness.

World Class, Scalable NVR
MAXPRO VMS is scalable for the future as the needs of your customers grow. Enterprise NVR technology is used in some of the world's largest digital video surveillance systems.

IP Network Solutions
For a total video management experience, Honeywell's MAXPRO VMS and IP-ready products such as PTZs, Mini-Domes and box cameras integrate with third party DVRs and NVRs – facilitating the migration to IP.

Unified Command & Control UltraKey IP Controllers
MAXPRO VMS gives users a unified end-to-end solution to interface devices ranging from NVRs and DVRs to PTZ controllers, matrix switchers and joystick controllers.

Smarter Video, Smarter Decisions with Active Alert® Video Analytics
MAXPRO VMS offers the option of adding our intelligent video analytics suite, Active Alert. The analytics engine uses advanced search tools for manned and unmanned video surveillance systems that removes the strain of surveillance and the burden of data overload from operators.

MAXPRO® Cloud 2.0
Hosted Video Surveillance

Anytime, Anywhere. When it comes to security, cloud computing is changing how you can run your business. MAXPRO® Cloud hosted video service features the cloud-ready hybrid video appliance that lets users view live and recorded video over the Internet using a PC, Mac, tablet or Smartphone. It is ideal for entry into video surveillance systems and offers opportunities for installers through hosted video services.

MAXPROCloud
Mobile App
Available for iOS and Android devices

MAXPRO® Cloud: Key Benefits

- Integrated Intrusion, Access Control and video with plug and play devices
- Cloud-ready system saves you time – allows you to view and manage live or stored video events from any location via the Internet
- Reduces installation and training costs by not having to install and maintain onsite client software
- Fast and easy deployment – reduces need for IT expertise
- Provides opportunities for RMR through value added hosted video services
- Expandable – additional video storage is available by adding off-the-shelf USB plug-in storage or NAS storage
- Single Sign on to all installed locations
- Powerful and flexible account management of all customer locations
- Full remote monitoring, management and configuration of all devices
- Email alerts of critical site events, alarms and device health
- Back up storage of critical events in the cloud

MAXPRO Cloud is an ideal solution for multi-location small to medium businesses. Single-sign on to multi-sites allows customers to access and manage their systems from anywhere.

MAXPRO® Cloud: How does it work?
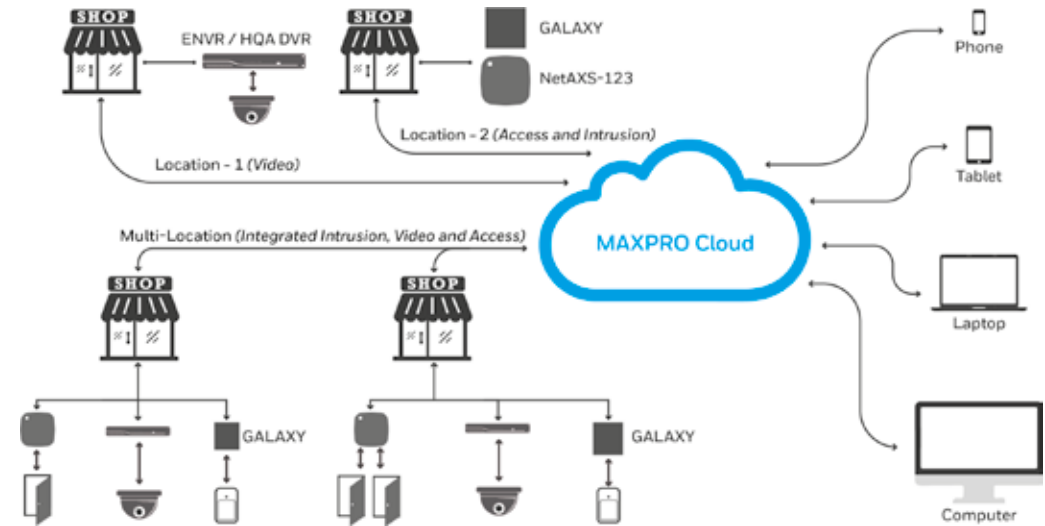
PART NUMBER	DESCRIPTION
HENxx1x2	"Cloud ready" local storage: 2MP, H.264 4/8/16-channel NVRs (see more information on NVRs section)
HRHT4xxx	"Cloud ready" local storage: 4MP, 4/8/16-channel, HQA/CVBS/IP Hybrid DVRs (see more information on DVRs section)

MAXPRO CLOUD SERVICES - MONTHLY FEES	UP TO 1080P	>1080P UP TO 5MP
For one camera without storage	MPC-S000	MPC-H000
For one camera with 7-day storage	MPC-S007	MPC-H007
For one camera with 30-day storage	MPC-S030	MPC-H030
For one camera with 60-day storage	MPC-S060	MPC-H060
For one camera with 90-day storage	MPC-S090	MPC-H090
For one camera with 180-day storage	MPC-S180	MPC-H180
For one camera with 365-day storage	MPC-S365	MPC-H365
For one Galaxy panel	MPC-I000	
For one Door	MPC-A000	

MAXPRO® NVRs
Network Video Recorders

Ideal for small to medium-sized businesses, Honeywell's family of network-based boxed NVRs include a Professional Edition (PE), Standard Edition (SE) and Xpress Edition (XE). To simplify installation, the solutions come with pre-installed software and camera licences for quick set-up and system scalability.

As a system grows, multiple NVR units can be combined into a full MAXPRO VMS system to support the deployment of a large-scale system.

MAXPRONVR
Mobile App
Available for iOS and Android devices

MAXPRO® NVRs

Open and easy to integrate
- Integrates with all Honeywell IP cameras and HVE Encoders
- H.265 compression
- Support for ONVIF Profile S, PSIA
- Compatible with ESI Video Alarm receiver

Easy to Install and Use
- Pre-installed with all software and pre-licensed for up to 64 Channels (except SW)
- Easy 3-Click wizard for a quick installation
- Learn one, know all – common feature rich user experience across MAXPRO NVR family and MAXPRO VMS / Viewier and "MAXPRONVR" mobile App
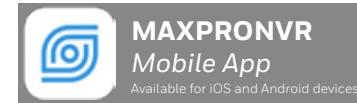
Scalable Integrated Security Solution
- Multiple MAXPRO NVRs deployed for system expansion using a distributed architecture and integrated with the MAXPRO Viewer multi-site software or MAXPRO VMS enterprise video management system
- Integrates with Honeywell WIN-PAK and Pro-Watch Access Control Systems

Flexible NVR Hardware
- Provides the processor and storage enclosure in one chassis, resulting in both space and cost savings
- Rack mountable with up to 8 removable drives

MAXPRO® VIEWER

MAXPRO Viewer is a software application that allows multi-site viewing of Honeywell recorders including MAXPRO® NVRs and previous products that could already be in place. These recorders may be grouped into sites and viewed simultaneously through salvos and on multiple monitors. This creates a single command point where video and events can be viewed from a single user interface through the range of Honeywell recorders.

PART NUMBER	DESCRIPTION	IP STREAMS	COMPRESSION	STORAGE	PERFORMANCE	DVD-RW	USB PORTS	INTERFACE	SYSTEMS
MAXPRO NVR PE	Boxed NVR	Up to 64 IP streams	MJPEG, MPEG-4, H.265, H.264 Compression (IP Camera dependent)	From 1TB to 64TB Storage RAID5/6	Up to 1920 fps @ 1080p (4 Mbps bitrate) HD	✓	6	User interface mimics MAXPRO VMS	Migration to larger MAXPRO VMS
MAXPRO NVR SE	Boxed NVR	Up to 64 IP streams	MJPEG, MPEG-4, H.265, H.264 Compression (IP Camera dependent)	From 1TB to 48TB Storage	Up to 1280 fps @ 1080p (4 Mbps bitrate) HD	✓	6	User interface mimics MAXPRO VMS	Migration to larger MAXPRO VMS
MAXPRO NVR XE	Boxed NVR	Up to 16 IP streams	MJPEG, MPEG-4, H.265, H.264 Compression (IP Camera dependent)	From 1TB to 12TB Storage	Up to 480 fps @ 1080p (4 Mbps bitrate) HD	✓	6	User interface mimics MAXPRO VMS	Migration to larger MAXPRO VMS
MAXPRO NVR Software Only	Flexible, scalable and open IP video surveillance system	Up to 64 IP streams	All required software applications and a licence for 4, 8, 16, 32 or 64 channels	✗	Up to 1920 fps @ 1080p (4 Mbps bitrate) HD	✗	✗	End user's IT department chooses appropriate hardware platform	Supports third party device integrations (PSIA and ONVIF)

8

9

Performance series embedded H.265 NVRs

The Performance 4K Embedded NVR is a Native Integrated Turnkey Video Solution ensuring more efficient / effective safety & security, reduce total cost of ownership, and reduce compliance & liability cost for SMB customers.

	PART NUMBER	RESOLUTION	RECORDING RATE (TOT)	VIDEO OUTPUT	ALARM I/O	AUDIO I/O	PORTS	PoE	SATA/ eSATA	STORAGE
4 CHANNEL *Available Q3/2018*	HEN04103	8 MP (4k) @ 1-15fps 6MP/5MP/ 4MP/ 3MP/ 1080p/720p ..... @ 25/30fps	120 fps (1080p) 80 Mbps	(4k) 1 HDMI 1 VGA	4/2	1/1	1 x USB3.0, 1 x USB2.0, 1 x RS232	4	2/0	no HDD
	HEN04113									1 TB
	HEN04123									2 TB
8 CHANNEL *Available Q3/2018*	HEN08103		240 fps (1080p) 200 Mbps				1 x USB3.0, 1 x USB2.0, 1 x RS232	8		no HDD
	HEN08113									1 TB
	HEN08123									2 TB
	HEN08143									4 TB
16 CHANNEL *Available Q3/2018*	HEN16103		480 fps (1080p) 200 Mbps				1 x USB3.0, 1 x USB2.0, 1 x RS232	16		no HDD
	HEN16123									2 TB
	HEN16143									4 TB
	HEN16163									6 TB
8 CHANNEL	HEN08104	12MP / 8 MP (4k) @ 1-15fps 6MP/5MP/ 4MP/ 3MP/ 1080p/720p ..... @ 25/30fps	240 fps	(4k) 1 HDMI, 1 VGA	4/2	1/1	1 x USB3.0, 1 x USB2.0, 1 x RS232	8	2/0	no HDD
	HEN08144									4 TB
	HEN081124									12 TB
16 CHANNEL	HEN16104		480 fps	(4k) 1 HDMI, 1 VGA	4/2		1 x USB3.0, 1 x USB2.0, 1 x RS232		2/0	no HDD
	HEN16144									4 TB
	HEN16184									8 TB
	HEN16204			(4k) 2 HDMI, 1 VGA	16/6		2 x USB3.0, 1 x USB2.0, 1 x RS232		4/1	no HDD
	HEN16284									8 TB
	HEN162244									24 TB
	HEN16304						2 x USB3.0, 2 x USB2.0, 1 x RS232		8/1	no HDD
	HEN16384									8 TB
32 CHANNEL	HEN32104		960 fps	(4k) 1 HDMI, 1 VGA	4/2		1 x USB3.0, 1 x USB2.0, 1 x RS232	16	2/0	no HDD
	HEN321124									12 TB
	HEN32304						2 x USB3.0, 2 x USB2.0, 1 x RS232		8/1	no HDD
	HEN32384									8 TB
	HEN323164									16 TB
	HEN32204			(4k) 2 HDMI, 1 VGA	16/6		2 x USB3.0, 1 x USB2.0, 1 x RS232		4/1	no HDD
	HEN32284									8 TB
	HEN322164									16 TB
64 CHANNEL	HEN64204		1920 fps							no HDD
	HEN64304									no HDD
	HEN643164						2 x USB3.0, 2 x USB2.0, 1 x RS232		8/1	16 TB
	HEN643324									32 TB
	HEN643484									48 TB

HENxx1xx4
HENxx2xx4
HENxx3xx4

HonView Touch
Mobile App
Available for iOS and Android devices

Embedded NVRs accessories

	PART NUMBER	DESCRIPTION
	HENHQARC	IR Remote Control for ENVR and HQA DVR
	HEN48VPS4CH	48VDC Power Adapter for 4CH ENVR
	HENHQA12VPS	12VDC/5A Power Adapter for ENVR & HQA DVR
	HENHQATRAY	ENVR & HQA DVR RACK MOUNT TRAY for HENxxxx2 models (for second generation NVR only)
	HEN4EC8	Performance 4K NVR Storage Expansion Chassis, 8 SATA (for HENxx2xx4 and HENxx3xx4 series)

Performance series Hybrid DVRs (Analogue HQA and IP)

Our HQA DVRs use an over-coaxial cable analog HD video transmission standard to allow long-distance HD transmission at a lower cost. The Performance Series HQA DVRs are the economic alternative for achieving HD video surveillance while retaining your existing BNC cables and cameras.

	PART NUMBER	DESCRIPTION	RESOLUTION	RECORDING RATE (TOT)	VIDEO OUTPUT	ALARM I/O	AUDIO I/O	SATA PORTS	STORAGE
4 CHANNEL	HRHT4040	HQA/CVBS/ IP Hybrid DVR, PAL/NTSC	4 MP @ 1-15fps, 1080p/720p/ 960H... @ 25/30fps	120 fps (720p) 60 fps (1080p)	1 HDMI, 1 VGA	-	1/1	1	0 TB (No HDD)
	HRHT4041								1 TB
	HRHT4042								2 TB
	HRHQ1040	HQA/TVI/ AHD/SD/IP Hybrid DVR, PAL/NTSC	1080p @ 1-15fps, 720p/ 960H... @ 25/30fps			4/3	4/1		0 TB (No HDD)
	HRHQ1041								1 TB
8 CHANNEL	HRHT4080	HQA/CVBS/ IP Hybrid DVR, PAL/NTSC	4 MP @ 1-15fps, 1080p/720p/ 960H... @ 25/30fps	240 fps (720p) 120 fps (1080p)	1 HDMI, 1 VGA	-	1/1	2	0 TB (No HDD)
	HRHT4082								2 TB
	HRHT4084								4 TB
	HRHQ1080	HQA/TVI/ AHD/SD/IP Hybrid DVR, PAL/NTSC	1080p @ 1-15fps, 720p/ 960H... @ 25/30fps			8/3	4/1		0 TB (No HDD)
	HRHQ1081								1 TB
	HRHQ1082								2 TB
16 CHANNEL	HRHT4160	HQA/CVBS/ IP Hybrid DVR, PAL/NTSC	4 MP @ 1-15fps, 1080p/720p/ 960H... @ 25/30fps	480 fps (720p) 240 fps (1080p)	1 HDMI, 1 VGA	-	1/1	2	0 TB (No HDD)
	HRHT4162								2 TB
	HRHT4164								4 TB
	HRHT4166								6 TB
	HRHT41612								12 TB
	HRHQ1160	HQA/TVI/ AHD/SD/IP Hybrid DVR, PAL/NTSC	1080p @ 1-15fps, 720p/ 960H... @ 25/30fps			16/3	4/1		0 TB (No HDD)
	HRHQ1162								2 TB
	HRHQ1164								4 TB

HonView Touch
Mobile App
Available for iOS and Android devices

How many IP channels can be used?

Number of Analogue/IP Channels available on HQA Hybrid DVRs																		
HRHQ104X & HRHT104X	Analogue Channels used	0	1	2	3	4												
	IP Channels remaining	6	5	4	3	2												
HRHQ108X & HRHT408x	Analogue Channels used	0	1	2	3	4	5	6	7	8								
	IP Channels remaining	12	11	10	9	8	7	6	5	4								
HRHQ116X & HRHT416x	Analogue Channels used	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	IP Channels remaining	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8

*Additional IP channels cannot be used with MAXPRO® Cloud and no IP channel can be used if face detection is on*

HDCS

Central Management Software for Performance Series NVRs/DVRs

HDCS is the central management software designed for the Performance Series-IP Embedded NVR and the Performance Series-HQA (High Quality Analog) DVR to connect multiple devices for video surveillance. Featuring a user-friendly interface, HDCS can be deployed for device add-on, configuration, status monitoring, alarm event checking, video live view and recording, as well as E-map central management system.
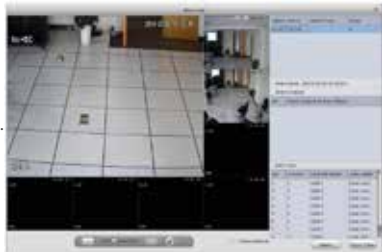
SYSTEM DIAGRAM
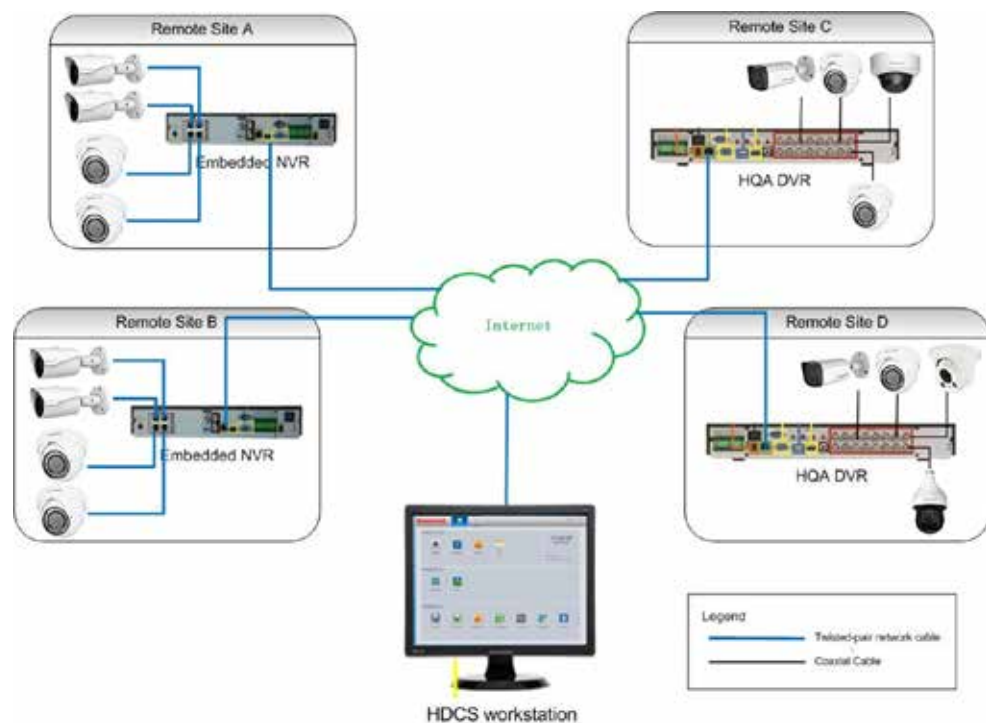
equIP® IP Cameras

Offering unlimited possibilities for every installation, Honeywell's equIP cameras provide outstanding image clarity and definition at minimal bandwidth, enabling better and faster decision making for more effective safeguarding of people and property.

Now with the addition of the equIP range, Honeywell can deliver a more powerful and versatile solution that allows you to customise your installation to your customer's needs.

equIP Cameras

We're Open to Unlimited Possibilities

Designed with open IP standards, including ONVIF Profile S, G and Q, our equIP network cameras offer superb picture quality and seamless integration to our portfolio of MAXPRO NVRs as well as other manufacturers' network devices to ensure full interoperability.

All cameras in the range support powering over PoE. This allows for faster installation time, remote power management for supply, monitoring, and cost saving verses running individual power to each camera. This provides both energy efficient solutions and infrastructure for centralised uninterruptible power backup for critical operations.
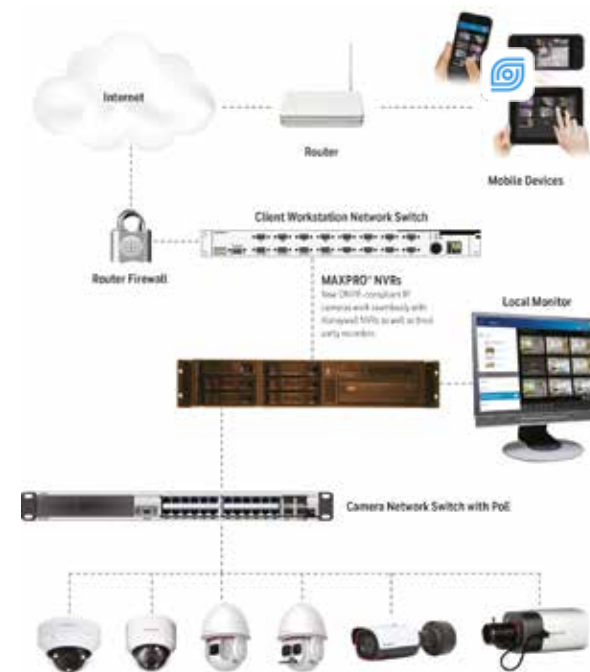
equIP Cameras
IR Indoor Dome IP Cameras

The H3 equIP dome cameras are perfect for indoor installations that require excellent picture quality at minimal bandwidth while offering maximum installation flexibility with three mounting options. Boasting a sleek modern design and offering two different lens options, the cameras are suited for a wide range of applications.

H3W

	H3W2GR2	H3W2GR1	H3W2GR1V	H3W4GR1	H3W4GR1V	H2W2GR1
Resolution	2MP			4MP		2MP
Sensor	1/2.7"		1/2.8"	1/3"		1/2.8"
Best Compression	H.264		H.265+	H.264	H.265+	H.265+
Lens (MFZ)	7~22mm	2.7~12mm	2.7~13.5mm	2.7~12mm	2.7~13.5mm	2.8mm
Angle of View (Horiz)	41°- 18°	99°- 34°	110°-32°	99°-34°	110°-30°	110°
Minimum Aperture	F1.4		F1.6	F1.4	F1.6	F2.0
Minimum Illumination	0.01 lux		0.001 lux	0.01 lux		0.001 lux
Smart IR LEDs range	20m					15m
True WDR	120dB		120dB (¹)	120dB	120dB (¹)	120dB (¹)
Power Input	12VDC / 24VAC / PoE					12VDC / PoE
Consumption (Max)	9W		11W	9W	10.5W	4.4W
Auxillary Power Supply Output	-		12VDC / 2W	-	12VDC / 2W	-
PoE	PoE (Class 0)					PoE (Class 0)
Long distance PoE	100m		300m (²)	100m	300m (²)	100m
Temperature	-30°C +50°C		-30°C +60°C	-30°C +50°C	-30°C +60°C	-30°C +60°C
Video Analytics	See analytics compatibility table					See table
Onvif Profiles	S, G		S, G, Q	S, G	S, G, Q	S, G, Q
Audio	Built-in microphone					Built-in micro
Environemental	N/A					IP67/IK10
In-Ceilling bracket supplied	✓					N/A

(¹) With Smart Scene Adaptive Technology , (²): 300m support using 3X POE switch

Micro-dome IP Cameras

With Low light, WDR and audio detection capabilities, this camera is the ideal solution for elevator surveillance. It can reduce people waiting time with faster response in case of incident and allows people identification to anticipate potential risks.

H2W

equIP Cameras
IR Rugged Dome IPCameras

The H4 equIP rugged dome cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek modern design and offering up to 4K high definition images, the cameras are suited for a wide range of applications.

	H4L2GR1	H4L2GR1V	H4W2GR1	H4W2GR1V	H4W2GR2	H4W4GR1	H4W4GR1V	H4L6GR2	H4D8GR1
Resolution	2MP					4MP		6MP	12MP
Sensor	1/2.8"		1/2.7"	1/2.8"	1/2.7"	1/3"		1/1.8"	1/.7"
Best Compression	H.264	H.265+	H.264	H.265+	H.264		H.265+	H.265	
Lens (MFZ)	2.7~12mm			2.7~13.5mm	7~22mm	2.7~12mm	2.7~13.5mm	4.1~16.4mm	2.7~12mm
Angle of View (Horiz)	102°- 35°	102°- 35°	99°-34°	110°- 32°	44° - 16°	99°-34°	110°-30°	86° – 35°	86°– 35°
Minimum Aperture	F1.4	F1.6	F1.4	F1.6	F1.4		F1.6	F1.53	F1.53
Minimum Illumination	0.005 lux	0.001 lux	0.01 lux	0.001 lux	0.01 lux			0.004 lux	0.02 lux
Smart IR LEDs range	50m								45m
True WDR	140dB	140dB (¹)	120dB	120dB (¹)	120dB		120dB (¹)	Digital WDR	
Power Input	12VDC / 24VAC / PoE								
Consumption (Max)	12W	20.5W	12W	22W	12W		15W	18W	
Auxillary Power Output	-	12VDC-2W	-	12VDC-2W	-		12VDC-2W	-	
PoE	Class 0	Class 4	Class 0	Class 4	Class 0		Class 4		
Long distance PoE	100m	300m (²)	100m	300m (²)	100m		300m (²)	100m	
Temperature	-40°C +60°C								
Video Analytics	See analytics compatibility table								
Onvif Profiles	S, G	S, G, Q	S, G	S, G, Q	S, G		S, G, Q		S, G
Other		RJ45 Gigabit						RJ45 Gigabit	

(¹) With Smart Scene Adaptive Technology , (²): 300m support using 3X POE switch

equIP Cameras

IR Rugged Bullet IP Cameras

The HB equIP serie of IP bullet cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek modern design and offering up to 4K high definition images, the cameras are suited for a wide range of applications.

	HBL2GR1	HBL2GR1V	HBW2GR1	HBW2GR1V	HBW2GR3	HBW2GR3V	HBW4GR1	HBL6GR2	HBD8GR1
Resolution	2MP						4MP	6MP	12MP
Sensor	1/2.8"		1/2.7"	1/2.8"	1/2.7"	1/2.8"	1/3"	1/1.8"	1/.7"
Best Compression	H.264	H.265+	H.264	H.265+	H.264	H.265+	H.264	H.265	
Lens (MFZ)	2.7~12mm			2.7~13.5mm	5~50mm	5~60mm	2.7~13.5mm	4.1~16.4mm	5.1~12.8mm
Angle of View (Horiz)	97°-34°	102°- 35°	99°-34°	110°- 32°	66°-6.2°	62°- 6°	99°-34°	86° – 35°	86°– 35°
Minimum Aperture	F1.4	F1.6	F1.4	F1.6	F1.4	F1.6	F1.4	F1.53	F1.7
Minimum Illumination	0.005 lux	0.001 lux	0.01 lux	0.001 lux	0.01 lux			0.004 lux	0.02 lux
Smart IR LEDs range	60m								65m
True WDR	140dB	140dB (¹)	120dB	120dB (¹)	120dB	120dB (¹)	120dB	Digital WDR	
Power Input	12VDC / 24VAC / PoE								
Consumption (Max)	14.5W	17W	12W	20.5W	12W	17.3W	12W	18W	
Auxillary Power Output	-	12VDC-2W	-	12VDC-2W	-	12VDC-2W	-		
PoE	Class 4		Class 0	Class 4	Class 0	Class 4			
Long distance PoE	100m	300m (²)	100m	300m (²)	100m	300m (²)	100m		
Temperature	-40°C +60°C								
Video Analytics	See analytics compatibility table								
Onvif Profiles	S, G	S, G, Q	S, G	S, G, Q	S, G	S, G, Q	S, G	S, G, Q	S, G
Other		RJ45 Gigabit						RJ45 Gigabit	

(¹) With Smart Scene Adaptive Technology , (²): 300m support using 3X POE switch

equIP Cameras

Box IP Cameras

These box cameras are perfect for installations that require excellent picture quality at minimal bandwidth, with a flexible design that mounts easily to a wall or ceiling. Boasting a sleek modern design and offering up to 4K high definition images, these cameras are suited for a wide range of applications

Lens sold separately

	HCL2G	HCL2GV	HCW2G	HCW2GV	HCW4G	HCD8G
Resolution	2MP				4MP	12MP
Sensor	1/2.8"		1/2.7"	1/2.8"	1/3"	1/1.7"
Best Compression	H.264	H.265+	H.264	H.265+	H.264	H.265
Lens	To be ordered separetly - support DC-Iris					
Focus	Auto Back Focus					
Minimum Illumination	0.002 lux	0.001 lux	0.01 lux	0.001 lux	0.01 lux	0.02 lux
True WDR	140dB	140dB (¹)	120dB	120dB (¹)	120dB	Digital WDR
Power Input	12VDC / 24VAC / PoE					
Consumption (Max)	6.5W	9.5W	6.5W	10W	6.5W	8W
PoE	PoE (Class 0)					
Long distance PoE	100m	300m (²)	100m	300m (²)	100m	
Temperature	-30°C +60°C					
Video Analytics	See analytics compatibility table					
Onvif Profiles	S, G	S, G, Q	S, G	S, G, Q	S, G	
Audio	Built-in microphone					
Other	RJ45 Gigabit					RJ45 Gigabit

(¹) With Smart Scene Adaptive Technology , (²): 300m support using 3X POE switch

Box Camera Lenses

PART NUMBER	DESCRIPTION
HLM27V12MPD (**)	4 MP, 1/2.7", F1.6, 2.7 – 12 mm CS Lens
HLM37V16MPD	12 MP, 1/1.7", F1.5, 3.7 – 16 mm CS Lens

PART NUMBER	DESCRIPTION
HLM5V50MPDE (**)	6 MP, 1/2.7", F1.6, 5 – 50 mm CS Lens
HLM105V42MPD	12 MP, 1/1.7", F1.5, 10.5 – 42 mm CS Lens
HLM30V120MPD	12 MP, 1/1.7", F2.2 –2.47 30-120 mm C Lens

(**) Not compatible with HCD8G

equIP Cameras
IR Fisheye IP Cameras

These fully featured attractive fisheye cameras are perfect for outdoor installations that require excellent picture quality at minimal bandwidth while offering maximum protection against dust, dirt, and water. Boasting a sleek modern design and offering the widest angle of view possible, the cameras are suited for a wide range of applications.

	HFD6GR1	HFD8GR1
Resolution	6MP	12MP
Sensor	1/1.8"	1/1.7"
Best Compression	H.265	
Lens	1.7mm	1.98mm
Angle of View (Horiz)	185°	
Minimum Aperture	F2.0	F2.8
Minimum Illumination	0.01 lux	
Smart IR LEDs range	8m	
WDR	Digital WDR	
Power Input	12VDC / PoE	
Consumption (Max)	10W	
PoE	PoE (Class 0)	
Temperature	-30°C +60°C	
Video Analytics	See analytics compatibility table	
Onvif Profiles	S, G	
Audio	Built-in microphone	
Other	RJ45 Gigabit	

equIP Cameras
IR Muti-imager IP Cameras

Ideal for mission critical verticals introducing nuclear and non-nuclear power stations, utility plants and petrochemical complexes, these highly durable cameras are also ideal for high risk business environments such as banking, higher education and commercial offices.

HMBL8GR1

	HM4L8GR1	HMBL8GR1
Resolution	8MP	
Sensors	1/1.9" (x 4)	1/1.7" x 4
Best Compression	H.265	
Lenses	5.0mm (x 4)	1.98mm
Angle of View (Horiz)	180°	
Minimum Aperture	F2.2	F2.8
Minimum Illumination	0.002 lux	
Smart IR LEDs range	30m	
WDR	Digital WDR	
Power Input	24VAC / PoE+	
Consumption (Max)	25W	
Auxillary Power Supply Output	N/A	
PoE	PoE+ (Class 4)	
Long distance PoE support (300m)	N/A	
Temperature	-40°C +60°C	
Video Analytics	See analytics compatibility table	
Onvif Profiles	S, G, Q	
Other	RJ45 Gigabit	

HM4L8GR1

equIP Cameras

Hazardous and challenging environments cameras

Designed for use in hazardous and challenging environments, Honeywell's explosion-proof and corrosive-proof network cameras features an AISI 316L stainless steel housing to provide maximum protection against deterioration.

HCPB302

	HEPB302W01A04	HEPB302W01A10	HCPB302
Resolution	2MP		2MP
Sensor	1/2.8"		1/2.8"
Best Compression	H.265		H.265
Lens	4.5–135mm MFZ		4.5–135mm MFZ
Angle of View (Horiz)	62.35°–2.53°		62.35°–2.53°
Minimum Aperture	F1.6–F4.4		F1.6–F4.4
Minimum Illumination	0.005 lux in colour, 0.0005 lux in B&W		0.005 lux in colour, 0.0005 lux in B&W
WDR	True WDR 120dB		True WDR 120dB
Power Input	12VDC / 24VDC / 24VAC		24 VAC
Consumption (Max)	42W		42W
Armoured Cable	4m	10m	N/A
ATEX-certified	EN 60079-0; EN 60079-1; EN 60079-31		N/A
IECEx-certified	IEC 60079-0; IEC 60079-1; IEC 60079-31		N/A
Temperature	-60°C +65°C		-40°C + 60°C
Video Analytics	See analytics compatibility table		See analytics table
Onvif Profiles	S		S
Housing	AISI 316L stainless steel		AISI 316L stainless steel
Other	Wiper, Electronic Image stabilization (EIS)		EIS

HEPB302W01Axx

MODEL	ACCESSORIES		
HEPWS	Washer system kit, 10 L	●	
HCPWM	AISI 316L stainless steel wall mount bracket	●	●
HCPPMA	AISI 316L stainless steel pole mount adapter	●	●
HCPCMA	AISI 316L stainless steel corner mount adapter	●	●
HCPPRM	AISI 316L stainless steel parapet mount bracket	●	
HCPPRMJ	AISI 316L stainless steel parapet mount joint	●	
HCPWK	AISI 316L Stainless Steel Wiper Kit, 24 VAC		●
HCPWSK	Washer System Kit, 24 VAC		●

equIP Cameras

Explosion-proof PTZ cameras

Honeywell's latest explosion-protected PTZ network camera is a good fit for onshore, offshore, marine, and heavy industrial installations in hazardous and challenging environments. The camera features a 316L stainless steel housing certified for hazardous areas according to ATEX, IECEx, and UL. The housing prevents any interior sparks or explosions from escaping and igniting the gases or dust in the surrounding air. The HEPZ cameras provide extremely crisp video with up to 2 million effective pixels, 30x optical zoom, and True Day/Night WDR for continuous surveillance in both hazardous and safe area applications.

	HEPZ302W0
Resolution	2MP
Sensor	1/2.8"
Best Compression	H.265
Lens	4.5–135mm MFZ
Angle of View (Horiz)	62.35°–2.53°
Minimum Aperture	F1.6–F4.4
Minimum Illumination	0.005 lux in colour, 0.0005 lux in B&W
PAN/TILT	PAN 360° endless, TILT −90° to 90°
WDR	True WDR 120dB
Power Input	24VAC
Consumption (Max)	120W
ATEX-certified	EN60079-0; EN60079-1; EN60079-31
IECEx-certified	IEC 60079-0; IEC 60079-1; IEC 60079-31
Temperature	-40°C +60°C
Video Analytics	See analytics compatibility table
Onvif Profiles	S, Q
Housing	AISI 316L stainless steel
Other	Wiper

MODEL	ACCESSORIES
HEPZWM	Wall Mount Bracket, AISI 316L stainless steel
HEPZPMA	Pole Mount Adapter, AISI 316L stainless steel
HEPZCMA	Corner Mount Adapter, AISI 316L stainless steel
HEPZPRM	Parapet/Ceiling Mount Adapter, AISI 316L stainless stee
HEPWS	Washer System Kit, with ATEX-certified solenoid valve, 24 VAC/VDC
HEPZA04	4 m Armored Cable with Barrier Cable Gland, ATEX/IECEx
HEPZA10	10 m Armored Cable with Barrier Cable Gland, ATEX/IECEx
HEPZT04	4 m Cable Tail with Conduit Cable Gland 3/4", UL
HEPZT10	10 m Cable Tail with Conduit Cable Gland 3/4", UL

equIP PTZ Cameras

HDZ IP IR PTZ Cameras

Honeywell's HDZ series of Network PTZ True Day/Night cameras provides extremely crisp video with up to 2 million effective pixels. The series uses the latest digital technology and advanced video processing and includes a wide range of models to meet the diverse needs of large scale surveillance applications. Extremely crisp video with model options that include high definition 30x optical zoom

- With continuous video footage via the cameras' onboard SD card storage option, end users can have total confidence even in the unlikely event of a network crash
- Installation time and costs are reduced by eliminating the need for electrician intervention using high power POE++ on outdoor models
- Outdoor models include vandal proof IK10, ensuring continuous monitoring of areas vulnerable to attack and vandalism
- ONVIF compatibility allows "off the shelf" integration to support wider integration to existing or third party systems
- For areas where vibration and adverse weather could interfere with surveillance operations, built-in Electronic Image Stabilizer (EIS) provides an extremely stable platform

HDZ302LIK

	HDZ302LIW	HDZ302LIK
Resolution	2MP	
Sensor	1/1.9"	
Best Compression	H.264	
Lens	6.0-180mm	
Angle of View (Horiz)	61.2° – 2.32°	
Minimum Aperture	F1.6-F4.8	
PAN Travel	360° endless	
TILT Travel	-10° to 90°, auto flip 180°	
PRESETS	250	
PRESET Speed	Pan: Up to 200°/s; Tilt: Up to 200°/s	
Minimum Illumination	0.005 lux	
Smart IR LEDs range	150m	200m
WDR	True WDR 120dB	
Power Input	24 VAC / PoE++	
Consumption : Min (Max)	24W (32W)	24W (38W)
PoE	PoE++ (Class 5)	
Temperature	-40°C +70°C	
Video Analytics	See analytics compatibility table	
Onvif Profiles	S	
Environemental	IP67	IP67 / IK10
Other	Wiper	

HDZ302LIW

equIP PTZ Cameras

HDZ IP PTZ Cameras

HDZ302IN   *HDZ302D*   *HDZ302DE*

	HDZ302IN	HDZ302D	HDZ302DE
Resolution	2MP		
Sensor	1/2.8"		
Best Compression	H.265		
Lens	4.5mm - 135mm		
Angle of View (Horiz)	62.35° - 2.53°		
Minimum Aperture	F1.6-F4.4		
PAN Travel	360° endless		
TILT Travel	-20° to 90°, auto flip 180°		0° to 90°, auto flip 180°
PRESETS	250		
PRESET Speed (PAN/TILT)	Up to 400°/s; / Up to 200°/s		Up to 500°/s; / Up to 400°/s
Minimum Illumination	0.005 lux (colour)/0.0005 lux (B/W) @ F1.6		
WDR	True WDR 120dB		
Power Input	24 VAC / PoE+		
Consumption : Min (Max)	13W (13W)	13W (23W)	13W (31W)
PoE	PoE+ (Class 4)		
Temperature	-10°C +70°C	-40°C +60°C	-40°C +70°C
Video Analytics	See analytics compatibility table		
Onvif Profiles	S, G		
Environemental	IK10 (dome only)	IP66 / IK10	IP67 / IK10

equIP / HDZ Cameras Mounts

CAMERA TYPE	CAMERA MODEL/ PART #NUMBER	# HOLES	Ø	WALL MOUNTS							IN CELLING MOUNTS		PENDENT MOUNT BRACKETS					JONCTION BOX	POLE MOUNTS			CORNER MOUNTS		ADAPTER
				HD4CHIP-WK2	HD3-MK2	HFG-WK	HDZWM1	HDZWM2	HDZGM	HBC5WT-2	HDZINPL	HD3IP-5K1	HFG-PK	H4G-PK	HEPM	HD4CHIP-PK2	HDZCM1 HDZCM2 HDZCM3	HDZJB	HBG-BB	HB4G-PM	HDZPMA	HB34G-CM	HDZCMA	HDZNPTA
Micro-dome Camera	H2W2GR1		Ø 91mm (28x86mm)			✓									✓		✓							
INDOOR Mini-Domes	H3W2GR1V, H3W2GR2, H3W4GR1V					✓									✓									
OUTDOOR Mini-Domes	H4L2GR1V, H4W2GR1V, H4W2GR2, H4W4GR1V, H4D8GR1, H4L6GR2		Ø140mm	✓										✓		✓	✓				✓			✓
BULLET CAMERAS	HBL2GR1V, HBW2GR1V, HBW2GR3V, HBW4GR1, HBD8GR1, HBL6GR2		Ø 89mm (63x63mm)																✓	✓				✓
BOX CAMERAS	HCL2GV, HCW2GV, HCW4G, HCD8G	-	-							✓														
INDOOR / OUTDOOR IR FISHEYE CAMERA	HFD6GR1, HFD8GR1		Ø130mm			✓									✓		✓				✓			✓
MULTI-IMAGER CAMERAS	HM4L8GR1	-					✓	✓										✓			with HDZWM1 HDZWM2		with HDZWM1 HDZWM2	with HDZWM1 HDZWM2
MULTI-IMAGER CAMERAS	HMBL8GR1		Ø145mm (84x119mm)															✓					with HDZJB	with HDZJB
IR PTZ CAMERAS	HDZ302LIW, HDZ302LIK, HDZ302DE	-					✓	✓										with HDZNPTA			with HDZWM1 HDZWM2		with HDZWM1 HDZWM2	with HDZWM1 HDZWM2
IR PTZ CAMERAS	HDZ302D	-					✓	✓	✓									with HDZNPTA			with HDZWM1 HDZWM2 HDZGM		with HDZWM1 HDZWM2 HDZGM	with HDZWM1 HDZWM2 HDZGM
INDOOR PTZ CAMERAS	HDZ302DIN	-								✓														

HD4CHIP-WK2   HD3-MWK2   HFG-WK   HDZWM1   HDZWM2   HDZGM   HBC5WT-2   HDZINPL

HFG-PK   H4G-PK   HEPM   HDZCM1 HDZCM2 HDZCM3   HDZJB   HBG-BB   HB4G-PM   HDZPMA   HB34G-CM   HDZCMA   HDZNPTA
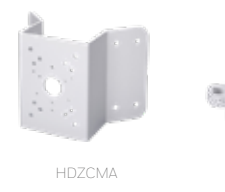
Performance Series IP Cameras

Upgrading to IP has never been so easy and affordable. Honeywell's Performance Series IP cameras are fully featured, competitively priced cameras that pair perfectly with a 4/8/16 32/64-channel Performance Series Embedded NVR.

Choose from a full range of IP cameras that includes up to Ultra HD 4k definition True Day/Night IR mini-dome, bullet and ball cameras to give you greater flexibility to get the solution that's right for your installation. Designed with open IP standards, including ONVIF Profile S, our IP network cameras offer superb picture quality and seamless integration to our Honeywell video NVR solutions.

Performance Series IP IR Cameras: Key Highlights

- IR LEDs provide up to 60 m of illumination in dimly lit or night-time scenes
- Smart IR technology for even distribution of IR
- Waterproof (IP66) camera housings are perfect for outdoor installations
- Range includes both motorized focus/zoom and fixed lenses for a wide range of field of view options
- Quick wizard and PoE support plug-and-play and make setup fast and easy
- Designed with open IP standards, including ONVIF Profile S

- Simple remote configuration and firmware updating through the Honeywell Viewer web client and the Honeywell Config tool
- Conceal up to 4 areas of a scene from viewing and recording
- Monitor from anywhere using HonView Touch Mobile App
- Onboard video storage options supporting up to 128 GB (some models only – card not included)

	PART NUMBER	DESCRIPTION	IMAGE SENSOR	LENS	RESOLUTION	MINIMUM ILLUMINATION	HORIZONTAL ANGLE OF VIEW	LOCAL STORAGE	IR DISTANCE (M)	COMPRESSION	FRAMERATE	ENVIRONMENTAL RATINGS	POWER REQUIREMENTS	WORKING ENVIRONMENT
IR BALL CAMERA														
	HED2PER3	2MP DWDR TDN IR Ball camera	1/3"	2.8mm fixed, F2.0	2MP (1920 x 1080)	0.08 lux (colour)/0 lux (B/W) @ F2.0 (with IR LEDs on)	83º	–	25	H.265+/H.265/H.264+/H.264	2 MP at 1 – 25/30fps D1/CIF at 1 – 25/30fps	IP66 rated	PoE (802.3af), 12 V DC 4.12 W max. (IR LEDs on)	–30ºC to 55ºC; 0% to 95% RH, non-condensing
	HEW2PR2	2MP WDR TDN IR Ball camera	1/2.7"	2.7-12mm MFZ, F1.4	2MP (1920 x 1080)	0.1 lux, F1.4 (colour); 0 lux (B/W with IR LEDs on)	86º - 30º	MicroSD, up to 128GB	60	H.264/MJPEG	2MP (1-25/30 fps) 1080p (1-25/30fps) D1, CIF (1-25/30 fps)	IP66 rated	PoE (802.3af), 12 V DC 7.0 W max. (IR LEDs on)	–30ºC to 60ºC; 0% to 95% RH, non-condensing
	HEW4PR2	4MP WDR TDN IR Ball camera	1/3"	2.7-12mm MFZ, F1.4	4MP (2688 x 1520)	0.1 lux, F1.4 (colour); 0 lux (B/W with IR LEDs on)	86º - 30º	MicroSD, up to 128GB	60	H.264/MJPEG	4MP (1-25/30 fps) 1080p (1-20fps) D1, CIF (1-25/30 fps)	IP66 rated	PoE (802.3af), 12 V DC 7.5 W max. (IR LEDs on)	–30ºC to 60ºC; 0% to 95% RH, non-condensing
	HEW4PRW3	4MP WDR TDN IR Ball camera	1/3"	2.8mm fixed, F2.0	4MP (2688 x 1520)	0.01 lux, F2.0 (colour); 0 lux (with IR LEDs on)	110º	–	40	H.264/MJPEG	4MP (1-20 fps) 3MP (1-25/30fps) D1, CIF (1-20 fps)	IP66 rated	PoE (802.3af), 12 V DC 3.7 W max. (IR LEDs on)	–30ºC to 60ºC; 0% to 95% RH, non-condensing
	HEW4PER3	4MP WDR TDN IR Ball camera	1/3"	2.8mm fixed, F2.0	4MP (2688 x 1520)	0.08 lux (colour)/0 lux (B/W) @ F2.0 (with IR LEDs on)	87º	–	25	H.265+/H.265/H.264+/H.264	4 MP at 1 – 20fps, 3 MP at 1 – 25/30fps, D1/CIF at 1 – 25/30fps	IP66 rated	PoE (802.3af), 12 V DC 4.68 W max. (IR LEDs on)	–30ºC to 55ºC; 0% to 95% RH, non-condensing
	HED8PR1	8MP (4k) WDR TDN IR Ball camera	1/2.5"	4.0mm fixed, F1.6	8MP (3840 x 2160)	0.07 lux (colour)/0 lux (B/W) @ F1.6 (with IR LEDs on)	88º	MicroSD, up to 128GB	50	H.265/H.264/MJPEG	8M (3840×2160) 1–15 fps; 6M (3072×2048) 1–20 fps; 4M (2688×1520) / WQHD (2560×1440) 1–25 fps; 3M (2304×1296) or lower resolution at 1–25/30 fps	IP66 rated	PoE (802.3af), 12 V DC 4,97 W max. (IR LEDs on)	–30ºC to 60ºC; 0% to 95% RH, non-condensing

	PART NUMBER	DESCRIPTION	IMAGE SENSOR	LENS	RESOLUTION	MINIMUM ILLUMINATION	HORIZONTAL ANGLE OF VIEW	LOCAL STORAGE	IR DISTANCE (M)	COMPRESSION	FRAMERATE	ENVIRONMENTAL RATINGS	POWER REQUIREMENTS	WORKING ENVIRONMENT
IR RUGGED DOME														
	H2W2PRV3	2 MP WDR TDN IR Micro-Dome Camera with built-in microphone	1/2.7"	2.8mm fixed, F1.4	2MP (1920 x 1080)	0.01 lux, F1.4 (colour); 0 lux (B/W with IR LEDs on)	120º	MicroSD, up to 128GB	20	H.264/MJPEG	2MP/1080p (1-25/30fps) D1, CIF (1-25/30 fps)	IP66 rated IK10 vandal resistant	PoE (802.3af), 12 V DC 5.0 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	H2W4PRV3	4 MP WDR TDN IR Mini-Dome Camera with built-in microphone	1/3"	2.8mm fixed, F1.4	4MP (2688 x 1520)	0.01 lux, F1.4 (colour); 0 lux (B/W with IR LEDs on)	106º	MicroSD, up to 128GB	20	H.264/MJPEG	4MP (1-20 fps) 3MP (1-25/30fps) D1, CIF (1-25/30 fps)	IP66 rated IK10 vandal resistant	PoE (802.3af), 12 V DC 5.0 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	H4W4PER2	4 MP WDR TDN IR Rugged Mini-Dome Camera	1/3"	2.7 – 13.5mm, MFZ, F1.4	4MP (2688 × 1520)	0.03 lux colour @ F1.4; 0 lux B/W with IR LEDs on @ F1.4	104º– 28º	MicroSD, up to 128GB	45	H.265+/H.265/ H.264+/H.264	4 MP (2688×1520) 1 – 20 fps; 3 MP (2304×1296) 1 – 25/30 fps	IK10 vandal resistant IP66 rated	PoE (802.3af), 12 V DC 8.5 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	H4W4PER3	4MP WDR IR Rugged Mini Dome Camera	1/3"	2.8mm fixed, F2.0	4MP (2688 × 1520)	0.08 lux colour @ F2.0; 0 lux B/W with IR LEDs on @ F2.0	87º	-	45	H.265+/H.265/ H.264+/H.264	4 MP (2688×1520) 1 – 20 fps; 3 MP (2304×1296) 1 – 25/30 fps	IK10 vandal resistant IP66 rated	PoE (802.3af), 12 V DC 4.58 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	H4W4PRV3	4 MP WDR TDN IR Rugged Mini-Dome Camera	1/3"	2.8mm fixed, F2.0	4MP (2688 x 1520)	0.01 lux, F2.0 (colour); 0 lux (with IR LEDs on)	106º	-	30	H.264/MJPEG	4MP (1-20 fps) 3MP (1-25/30fps) D1, CIF (1-25/30 fps)	IP66 rated IK10 vandal resistant	PoE (802.3af), 12 V DC 4.0 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	H4D8PR1	8 MP (4k) WDR TDN IR Rugged Mini-Dome Camera	1/2.5"	4.0mm fixed lens, F1.6	8MP (3840×2160)	0.1 lux (colour)/0 lux (B/W) @ F1.6 (with IR LEDs on)	88º	MicroSD, up to 128GB	30	H.265/H.264/ MJPEG	8MP (3840×2160) 1–15 fps; 6MP (3072×2048) 1–20 fps; 4MP (2688×1520) / WQHD (2560×1440) 1–25 fps; 3MP (2304×1296) or lower resolution at 1–25/30 fps	IK10 vandal resistant IP66 rated	PoE (802.3af), 12 V DC 6,7 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
IR BULLET														
	HBD2PER1	2MP DWDR TDN IR Bullet Camera	1/2.9"	3.6mm fixed, F2.0	2MP (1920 x 1080)	0.08 lux colour @ F2.0; 0 lux B/W with IR LEDs on @ F2.0	83º	-	30	H.265+/H.265/ H.264+/H.264	2 MP (1920×1080) 1 – 25/30 fps; D1 (704×576) 1 – 25/30 fps; CIF (352×288) 1 – 25/30 fps;	IP66 rated	PoE (802.3af), 12 V DC 5.03 W max. (IR LEDs on)	−30ºC to 55ºC; 0% to 95% RH, non-condensing
	HBW2PR2	2 MP WDR TDN IR Bullet Camera	1/2.7"	2.7-12mm MFZ, F1.4	2MP (1920 x 1080)	0.1 lux, F1.4 (colour); 0 lux (B/W with IR LEDs on)	93º - 35º	MicroSDHC, up to 128GB	60	H.264/MJPEG	2 MP (1920×1080) 1-25/30fps), D1, CIF (1-25/30 fps)	IP66 rated	PoE (802.3af), 12 V DC 13.0 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	HBW4PER1	4 MP WDR TDN IR Bullet Camera	1/3"	3.6mm fixed, F2.0	4MP (2688 x 1520)	0.08 lux colour @ F2.0; 0 lux B/W with IR LEDs on @ F2.0	87º	-	30	H.265+/H.265/ H.264+/H.264	4 MP (2688×1520) 1 – 20 fps; 3 MP (2304×1296) 1 – 25/30 fps	IP66 rated	PoE (802.3af), 12 V DC 5.7 W max. (IR LEDs on)	−30ºC to 55ºC; 0% to 95% RH, non-condensing
	HBW4PER2	4 MP WDR TDN IR Bullet Camera	1/2.9"	2.7 – 13.5mm, MFZ, F1.4	4MP (2688 x 1520)	0.03 lux colour @ F1.4; 0 lux B/W with IR LEDs on @ F1.4	104º– 28º	MicroSD, up to 128GB	50	H.265+/H.265/ H.264+/H.264	4 MP (2688×1520) 1 – 20 fps; 3 MP (2304×1296) 1 – 25/30 fps	IP66 rated	PoE (802.3af), 12 V DC 11.74 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
	HBD8PR1	8 MP (4k) WDR TDN IR Bullet Camera	1/2.5"	4.0mm fixed, F1.6	8MP (3840 x 2160)	0.07 lux (colour)/0 lux (B/W) @ F1.6 (with IR LEDs on)	88º	MicroSD, up to 128GB	30	H.265/H.264/ MJPEG	8MP (3840×2160) 1–15 fps; 6MP (3072×2048) 1–20 fps; 4MP (2688×1520) / WQHD (2560×1440) 1–25 fps; 3MP (2304×1296) or lower resolution at 1–25/30 fps	IP66 rated	PoE (802.3af), 12 V DC 6,7 W max. (IR LEDs on)	−30ºC to 60ºC; 0% to 95% RH, non-condensing
FISHEYE														
	HFD5PR1	5MP DN DWDR Rugged Fisheye Camera with built-in microphone	1/3"	1.42mm fixed F2.6	5MP (2592 x 1944)	0.01 lux (colour)/0.001 lux (B/W) @ F2.6	185º	MicroSD, up to 64GB	-	H.264/MJPEG	5M (3072×2048) 1–12 fps; UXGA (1600×1200) at up to 25/30 fps	-	PoE (802.3af), 12 V DC 6 W max	−30ºC to 40ºC; 0% to 95% RH, non-condensing
PTZ CAMERAS														
	HDZP252DI	2MP IR, DWDR Indoor / Outdoor PTZ,	1/2.8"	4.8−120mm, MFZ F1.6−F4.4	2MP (1920 x 1080	0.005 lux (colour)/0 lux (B/W) @ F1.6 (with IR LEDs on)	59.2º – 2.4º	MicroSD, up to 128GB	100m	H.265/H.264/ MJPEG	2MP (1920x1080)/720p @ 60/50 fpss	IP66 rated	12 VDC / 20W Max PoE+	−40ºC to 70ºC; 0% to 95% RH, non-condensing
	HDZP304DI	4MP IR, WDR 120dB Indoor / Outdoor PTZ,	1/3"	4.5−135mm, MFZ F1.6−F4.4	4MP (2688 x 1520)	0.05 lux (colour)/0 lux (B/W) @ F1.6 (with IR LEDs on)	60º - 2.2º	MicroSD, up to 128GB	100m	H.265/H.264/ MJPEG	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, 720p at 60 fps	IP66 rated	24VAC ± / 10% / 23W Max PoE+	−40ºC to 70ºC; 0% to 95% RH, non-condensing

High Quality Analogue Solutions

Supercharge your analogue security system with Honeywell's HD Over Coax technologies for high definition 2, 4 or 8 MP images over your existing coax infrastructure. The Performance Series HQA/TVI/AHD line includes a wide range of high performing IR cameras and DVRs that are easy to install and even easier to use.

Low cost HD video
- Competitive priced vs. IP Video
- Much more detailed than analogue Video and comparable with IP Video

Hassle free installations
- Upgrade with minimal training
- No need to be an IT experts
- Uses existing coax cable

Solutions for any need
- More options to choose from HQA line
- Backwards compatible

Low Maintenance
- No License fees and network maintenance required

Market Opportunities

These flexible, fully featured cameras are perfect for a wide range of surveillance applications, providing excellent picture quality at an affordable price.

High Quality/Standard format Setting (not available on all cameras)
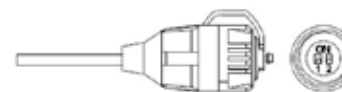
	1	2
CVI	OFF	OFF
SD	ON	ON
AHD	ON	OFF
TVI	OFF	ON

Rugged Dome

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HD30XD2	2 MP (HQA, TVI, AHD, SD) IR Mini Dome	1/2.9", 3.6mm fixed, F2.0	0.02 lux @ F2.0(colour), 0 lux (B/W with IR LEDs on)	IK10 vandal resistant, IP66	12 IR LEDs up to 30 m (100')	DWDR	12 VDC, 2.6W Max	1-channel BNC CVI/TVI/AHD/CVBS video output
	HD41XD2		1/2.9", 2.7 – 13.5mm, vari-focal lens, F1.4			2 IR LEDs up to 30 m (100')		12 VDC, 3.4W Max	
	HD42XD2	2 MP (HQA, TVI, AHD, SD) WDR IR Mini Dome	1/2.1", 2.7 – 13.5mm, MFZ, F1.3	0.02 lux @ F1.3(colour), 0 lux (B/W with IR LEDs on)		2 IR LEDs up to 30 m (100')	WDR (120 dB)	12 VDC, 5.4W Max	
	HD72HD4	4 MP HQA WDR IR Mini Dome	1/3", 2.8mm fixed, F1.5	0.01 lux @ F1.5(colour), 0 lux (B/W with IR LEDs on)		12 IR LEDs up to 30 m (100')		12 VDC, 4.4W Max	1-channel BNC high definition video output and 1-channel BNC CVBS video output
	HD274HD4		1/3", 2.7-12mm MFZ, F1.3	0.01 lux @ F1.3 (colour), 0 lux (B/W with IR LEDs on)		2 IR LEDs up to 30 m (100')	WDR (120 dB)	12 VDC, 24 VAC, 10.1W Max	
	H4D42HD8	8 MP HQA/CVI, TVI, AHD, SD WDR IR Mini Dome	1/2", 3.7-11mm MFZ, F1.5	0.01 lux @ F1.5 (colour), 0 lux (B/W with IR LEDs on)		2 IR LEDs up to 30 m (100')		12 VDC, 24 VAC, 8.4W Max	1-channel BNC CVI/TVI/AHD/CVBS video output

PTZ Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HDZP30XD4	4 MP HQA/CVI, TVI, AHD, SD WDR 30X Speed Dome Camera	1/2.8", 2.7 – 13.5mm, MFZ lens, F1.3	0.005 lux colour @ F1.3; 0 lux B/W with IR LEDs	IP66 rated	2 High Power IR LEDs, up to 50 m (150')	WDR (120 dB)	24 VAC, 7.2W Max	1-channel BNC CVI/TVI/AHD/CVBS video output

High Quality Analogue Cameras

Bullet Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HB30XD2	2 MP (HQA/ CVI, TVI, AHD, SD) IR Bullet Camera	1/2.9", 3.6mm fixed, F2.0	0.02 lux @ F2.0(colour), 0 lux (B/W with IR LEDs on)	IP66 rated	18 IR LEDs up to 30 m (100')	DWDR	12 VDC, 2.8W Max	1-channel BNC CVI/TVI/AHD/ CVBS video output
	HB41XD2		1/2.9", 2.7 – 13.5mm, vari-focal lens, F1.4	0.02 lux @ F1.4(colour), 0 lux (B/W with IR LEDs on)		20 IR LEDs up to 30 m (100')		12 VDC, 2.5W Max	
	HB42XD2	2 MP (HQA/ CVI, TVI, AHD, SD) WDR IR Bullet Camera	1/2.8", 2.7 – 13.5mm, MFZ, F1.3	0.005 lux @ F1.3(colour), 0 lux (B/W with IR LEDs on)		12 IR LEDs up to 50 m (150')	WDR (120 dB)	12 VDC, 10.1W Max	
	HB74HD4	4 MP (HQA/ CVI) WDR IR Bullet Camera	1/3", 3.6mm fixed, F1.5	0.01 lux @ F1.5 (colour), 0 lux (B/W with IR LEDs on)		2 IR LEDs up to 40 m (131')		12 VDC, 15.4W Max	1-channel BNC high definition video output and 1-channel BNC CVBS video output
	HB276HD4	4 MP (HQA/ CVI) WDR IR Bullet Camera	1/3", 2.7-12mm MFZ, F1.3	0.01 lux @ F1.3 (colour), 0 lux (B/W with IR LEDs on)		4 IR LEDs up to 60 m (200')		12 VDC, 24 VAC, 5.3W Max	
	HBD42HD8	8 MP (HQA/ CVI, TVI, AHD, SD), WDR IR Bullet camera	1/2", 3.7-11mm MFZ, F1.5	0.01 lux @ F1.5 (colour), 0 lux (B/W with IR LEDs on)		up to 50 m (150')		12 VDC, 24 VAC, 15W Max	1-channel BNC CVI/TVI/AHD/ CVBS video output

Ball Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HE30XD2	2 MP (HQA/ CVI, TVI, AHD, SD) IR Ball Camera	1/2.9", 3.6mm, fixed lens, F2.0	0.02 lux colour @ F2.0; 0 lux B/W with IR LEDs	IP66 rated	1 High Power IR LED, up to 40 m (120')	DWDR	12 VDC, 2.9W Max	1-channel BNC CVI/TVI/ AHD/CVBS video output
	HE30XD2G	2 MP (HQA/ CVI, TVI, AHD, SD) IR Ball Camera Grey							
	HE41XD2	2 MP (HQA/ CVI, TVI, AHD, SD) IR Ball Camera	1/2.9", 2.7 – 13.5 mm, vari-focal lens, F1.4			20 IR LEDs, up to 30 m (100')		12 VDC, 4.2W Max	
	HE42XD2	2 MP (HQA/ CVI, TVI, AHD, SD) WDR IR Ball	1/2.8", 2.7 – 13.5mm, MFZ lens, F1.3	0.005 lux colour @ F1.3; 0 lux B/W with IR LEDs		2 High Power IR LEDs up to 50 m (150')	WDR (120 dB)	12 VDC, 7.2W Max	
	HE42XD2G								
	HD30HD4	4 MP (HQA/ CVI) WDR IR Ball Camera	1/3", 3.6mm fixed, F1.5	0.01 lux @ F1.5 (colour), 0 lux (B/W with IR LEDs on)		1 high-powered LED up to 50 m (164')	WDR (120 dB)	12 VDC, 5.3W Max	1-channel BNC high definition video output and 1-channel BNC CVBS video output

Box Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HC2HD2	2 MP (HQA/ CVI, SD) WDR Box Camera	1/2.8"	0.005 lux colour @ F1.2, 0.0005 lux B/W @ F1.2		N/A	N/A	WDR (120 dB)	12 VDC / 24 VAC 4.7 W Max	1-channel BNC CVI and 1-channel BNC CVBS video output

	PART NUMBER	DESCRIPTION
	HLM27V12MPD	2.7 - 12 mm F1.6
	HLM5V50MPDE	5.0 - 50 mm F1.6

	PART NUMBER	DESCRIPTION
	HBC5WT-2	Mounting bracket

PIR Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HB30PHD2	2 MP (HQA/CVI), PIR Camera	1/2.7", 2.8mm, lens, F2.0	0.02 lux @ F2.0 (colour), 0 lux (B/W with IR LEDs on)	IP66	up to 20m (60')	DWDR	12 VDC 4.1 W Max	Detection range: 10m / 110º, 1-channel BNC CVI video output

Temperature & Humidity Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HB30THD2	2 MP (HQA/CVI), Temperature Humidity Camera	1/2.9", 3.6mm, lens, F2.0	0.02 lux @ F2.0 (colour), 0 lux (B/W with IR LEDs on)	IP66	up to 20m (60')	DWDR	12 VDC 3.4 W Max	1-channel BNC CVI video output

Pin-hole Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HPXD2	2 MP (HQA/CVI, TVI, AHD, SD), WDR Pin-hole Camera	1/2.8", 2.8mm, fixed lens, F2.4	0.05 lux @ F2.4 (colour), 0.005 lux (B/W)	N/A	N/A	WDR (120 dB)	12 VDC 1.2 W Max	1-channel BNC CVI/TVI/AHD/ CVBS video output

Fisheye Camera

	PART NUMBER	DESCRIPTION	OPTICAL (SENSOR/ LENS)	MINIMUM ILLUMINATION	ENVIRONMENTAL	SMART IR LEDS	WDR	POWER INFORMATION	ADDITIONAL INFORMATION
	HFD4OHD4	4 MP (HQA/CVI, SD), WDR Fisheye Camera	1/3", 1.18mm, fixed lens	0.01 lux @ F2.0 (colour), 0.001 lux (B/W)	IK10 vandal resistant, IP66	N/A	WDR (120 dB)	12 VDC 2.2 W Max	1-channel CVI and 1-channel CVBS video output

Performance brackets compatibility table

H4W4PER2 with HQA-WK

Legend of product columns and bracket category groups (NEW badges shown on HQA-BB4, HQA-IC, HQA-RS, HQA-PK, HQA-CB, HQA-PM2):

# HOLES	D	IP	HQA	JUNCTION BOX						WALL MOUNT		IN-CEILING BRACKET	RAIN SHIELD BRACKET	PENDANT MOUNT CAP	CEILING MOUNT BRACKET	POLE MOUNT	CORNER MOUNT
				HQA-BB1	HQA-BB2 / HQA-BB2G	HQA-BB3 / HQA-BB3G	HQA-BB4 (NEW)	HBS2-BB	HEJB	HQA-WK	HQA-WK2 / HQA-WK2G	HQA-IC (NEW)	HQA-RS (NEW)	HQA-PK (NEW)	HQA-CB (NEW)	HQA-PM2 (NEW)	HB34S2-CM
	Ø 110mm	H4W4PER2	H4D42HD8, HD274HD4, HD41XD2, HD42XD2		✓	✓				✓			✓	✓	✓	with HQA-PK	with HQA-WK, HQA-BB2/G or HQA-BB4	with HQA-BB2/G or HQA-BB4
	Ø 98mm	H4D8PR1, H4W4PER3	HD30XD2, HD72HD4		✓					✓				✓	✓	with HQA-PK	with HQA-WK or HQA-BB2/G	with HQA-BB2/G
	Ø 55mm	-	HB30PHD2					✓	✓							with HBS2-BB or HEJB	with HBS2-BB or HEJB
	Ø 55mm	-	HB30THD2					✓	✓							with HBS2-BB or HEJB	with HBS2-BB or HEJB
	Ø 55mm	HBD2PER1, HBW4PER1	HB30XD2					✓	✓							with HBS2-BB or HEJB	with HBS2-BB or HEJB
	Ø 70mm	HBW2PR2, HBW4PER2	HB276HD4, HB41XD2					✓								with HBS2-BB	with HBS2-BB
	Ø 70mm	-	HB42XD2					✓								with HBS2-BB	with HBS2-BB
	Ø 70mm	-	HBD42HD8					✓								with HBS2-BB	with HBS2-BB
	Ø 69mm	HBD8PR1	HB74HD4	✓												with HQA-BB1	with HQA-BB1
	Ø 69mm	HED8PR1, HEW4PRW3	HD30HD4, HE30XD2, HE30XD2G	✓		✓						✓			✓	with HQA-PK	with HQA-BB1, HQA-WK2/G or HQA-BB3/G	with HQA-BB1 or HQA-BB3/G
	Ø 68mm	-	HE41XD2	✓								✓			✓	with HQA-PK	with HQA-WK2/G or HQA-BB1	with HQA-BB1
	Ø 68mm	HED2PER3, HEW4PER3	-	✓								✓			✓	with HQA-PK	with HQA-WK2/G or HQA-BB1	with HQA-BB1
	Ø 84mm	-	HE42XD2, HE42XD2G		✓			✓	✓	✓					✓	with HQA-PK	with HQA-WK, HQA-BB2/G or HBS2-BB	with HQA-BB2/G or HBS2-BB
	Ø 84mm	HEW2PR2, HEW4PR2	-		✓			✓	✓	✓					✓	with HQA-PK	with HQA-WK, HQA-BB2/G or HBS2-BB	with HQA-BB2/G or HBS2-BB
	Ø 98mm	HFD5PR1	HFD40HD4		✓					✓					✓	with HQA-PK	with HQA-WK or HQA-BB2/G	with HQA-BB2/G
	Ø 91mm	H2W2PRV3, H2W4PRV3	-			✓						✓			✓	with HQA-PK	with HQA-WK2/G or HQA-BB3/G	with HQA-BB3/G

Accessories

Long distance PoE switch

	PART NUMBER	DESCRIPTION	POWER	COMPATIBILITY	DISTANCE
	HPOE3X	3X POE switch, 1x100/1000 Base-X, SFP fiber port, 1x10/100/1000 Base-T, 4x10/100 Base-T (POE power supply)	230V VAC / 48-57 V DC power adapter, consumption <4.8W	HBW2GR1V, HBW2GR3V, HBL2GR1V, H4W2GR1V, H4W4GR1V, H3W2GR1V, H3W4GR1V, HCW2GV	up to 300m

IP/Coax converter

	PART NUMBER	DESCRIPTION	POWER	DISTANCE
	HLR1001	IP to Coax to IP Transmitter and receiver 1x10/100 Mbps Base-TX or RX, 1xBNC	PoE (<2W)	With RG59 coaxial cable: 400m/100Mbps, 1000m/10Mbps

HVE Audio/Video Encoders: Key Highlights

- H. 264 ONVIF Profile S supports MAXPRO NVR and other compliant recorders
- Dual streaming with local storage for continuous and event clip recording
- PoE (1 and 4 Ch units)
- Advanced features, such as Motion Detection and privacy zones
- All support alarm inputs and relay outputs
- Audio inputs and bi-directional audio through browser
- Alarm inputs and relay output
- RS485 PTZ control, multiple protocols
- Feature rich web browser, live view, playback of local recorded video, configuration and user management (supports Internet Explorer, Firefox, Chrome, and Safari)

	PART NUMBER	DESCRIPTION	STREAM TYPE	COMPRESSION	STORAGE	CIF
	HVE1X	1-Channel, Audio/Video Encoder, PAL	Video/Video + Audio	Dual streaming: H.264/MPEG4/MPEG2/MJPEG	Local storage microSD: 4 GB up to 32 GB, Class 6 and above microSD	4CIF/2CIF/CIF/QCIF*
	HVE4X	4-Channel, Audio/Video Encoder, PAL	Video/Video + Audio	Dual streaming: H.264/MPEG4/MPEG2/MJPEG	Local storage microSD: 16 GB up to 32 GB, Class 6 and above microSD	4CIF/2CIF/CIF/QCIF*
	HVE8X	8-Channel, Audio/Video Encoder, PAL	Video/Video + Audio	Dual streaming: H.264/MPEG4/MPEG2/MJPEG	Local storage microSD and Hard Drive: Up to 4 TB capacity for each disk	4CIF/2CIF/CIF/QCIF*

Learn more about

Video Analytics definition and equIP Cameras compatibility

	H2W2GR1V	H3WxxGRx	H4D8GR1	H4L6GR2	H4L2GR1V	H4WxGRx	HBD8GR1	HBL6GR2	HBL2GR1V	HBWxGRx	HCD8G	HCL2G / HCWxG	HCPB302	HDZ302Dxx	HDZ302Lxx	HEPB302W01Ax4	HEP2302W0	HFDxGR1	HM4L8GR1	HMBL8GR1
Motion detection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Auto-tracking														✓	✓		✓			
Face detection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓
Audio detection	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓
Video tampering	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scene change	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	
People counting				✓	✓			✓												
Xtralis ADPRO IntrusionTrace (*)			✓	✓			✓	✓			✓		✓	✓		✓	✓	✓		
Xtralis ADPRO LoiterTrace (*)			✓	✓			✓	✓	✓		✓			✓			✓	✓		
License Plate Recognition (**)							✓													

(*) Additional license application required, Firmware must be 30 March 2017 or later
(**) MAXPRO NVR 4.9 minimum (consult us for availability in regions)

✓ Available on the Camera and MAXPRO NVRs
✓ Available on the Camera only

- **Motion detection :**
  The camera can be configured to detect motion in the image and then trigger a set of alarm actions.
- **Auto-tracking :**
  For PTZ cameras with this feature, the camera can be configured detect people or vehicle in the image can follow the movement of the detected object automatically.
- **Face detection :**
  Camera can be configured to detect a human face that is moving towards it, triggering a response.
  The camera can only detect a face looking directly into the camera, not side views.
- **Audio detection :**
  Camera can be configured detect sounds that are above a selected threshold.
- **Video tampering :**
  Cameras can be configured detect and send out an alarm when the lens is covered.
- **Scene change :**
  Cameras can be configured to trigger an alarm when there is a change in the scene caused by an intentional rotation of the camera.
- **People counting :**
  Cameras can be configured to count people passing a pre-defined line or area and send out result to a backend system.
- **Xtralis ADPRO IntrusionTrace (*) :**
  Provides high performance intrusion detection using video analytics specifically designed for 24/365 outdoor operation.
- **Xtralis ADPRO LoiterTrace (*) :**
  LoiterTrace is an image analysis tool able to detect humans remaining too long in the scene.
- **License Plate Recognition (**) :**
  Automatically detects and captures the image of license/number plate of a vehicle, convert the image into characters, then generate an event for MAXPRO NVR.

GDPR (EU GENERAL DATA PROTECTION REGULATION)

The EU General Data Protection Regulation (GDPR) comes into force on May 25, 2018. The GDPR is designed to harmonize data privacy laws across Europe and to protect and empower individuals in the EU with respect to the processing of personal data relating to them. There is no question that the GDPR is the most important change in data privacy regulation in the EU in more than 20 years – for Honeywell and our customers.
Like all other organizations doing business in the EU, we are working hard to prepare for the GDPR. The security and privacy of our customers' information is, and always will be, among our highest priorities. We are committed to complying with the GDPR and to helping our customers do the same.

Below are some of the ways in which Honeywell is working to comply with the GDPR:

• How will Honeywell comply with the GDPR?

As a global organization, Honeywell works to comply with data privacy laws in the countries in which we operate. Honeywell has an in-house data privacy team that monitors developments in data privacy regulation globally, including the GPDR. In recognition of the significant change that the GDPR represents, we have established a global cross-functional team and corresponding program to help us prepare. This program, which encompasses Honeywell's products and services, as well as our internal processes and procedures, is led by Honeywell leaders from a variety of key functions impacted by this regulation. At the same time, we are developing training for employees across our Company to ensure that they are aware of the key changes that the GDPR will bring and how to comply with them.

• How does Honeywell secure customer data?

Honeywell has always been committed to securing our customers' data. Accordingly, the requirement in Article 32 GDPR to take steps to ensure the security of the data we process is not new, and we are continuously evolving to keep pace with changing technologies and cyber security threats. Honeywell keeps our customers' data secure by enforcing policies and procedures outlined in regulatory requirements and by implementing industry best practices and critical control frameworks, including NIST SP 800-171 and ISO 27001. Obligations include topics such as access management, asset and change management, data protection, vulnerability management, incident response, responsible disclosure, and business continuity and physical security. Applications and products are developed and implemented in accordance with these control obligations and Honeywell's secure software development lifecycle.
Honeywell employs a defense-in-depth strategy, including several levels and types of protection and monitoring technologies to protect the confidentiality and integrity of customer data. Honeywell IT and security controls undergo regular testing from internal and external assessments and audits. Honeywell maintains the Cyber Essentials Scheme certification.

• How will Honeywell comply with the security notification requirements of the GDPR?

At Honeywell, we pride ourselves on our security standards and excellent track record in data security. At the same time, in today's increasingly complex digital world, we recognize that robust incident-response capabilities are of equal importance to our customers. We have reinforced our existing incident response procedures to align with the requirements of Article 33 of the GDPR, including timely security notifications and assistance.

• How does Honeywell comply with the GDPR's restrictions on international data transfers?

As a global Company, we operate in 1,250 sites in 70 countries. Our global scope is a key competitive advantage. Therefore, our data management practices reflect our strategic goals. Many of our customers ask what steps we take to transfer personal data outside the EU. Aligned with many other organizations, we rely on the EU Model Clauses for this purpose (available at: **https://ec.europa.eu/info/strategy/justice-and-fundamental-rights/ data-protection/data-transfers-outside-eu/model-contracts-transfer-personal-data-third-countries_en**). The EU Model Clauses are a legal instrument designed by the European Commission to ensure that personal data is treated in compliance with European data privacy laws – even after it has left the EU. Honeywell enters into the EU Model Clauses with its group companies, suppliers, and other third parties outside the EU to ensure the legality of its international data transfers.
Some of our customers are concerned that the GDPR prohibits transfers of personal data outside the EU. This is incorrect. In fact, the preamble to the GDPR expressly recognizes that "*Flows of personal data to and from countries outside the Union are necessary for the expansion of international trade and international cooperation.*" Chapter V GDPR confirms the continued validity of the EU Model Clauses, while introducing several new and innovative mechanisms that organizations can use to facilitate international data transfers. We intend to continue using the EU Model Clauses as its preferred means of transferring personal data outside the EU.

Cybersecurity

Modern IP technology can enable effective and manageable video surveillance to protect people, their information, their properties, and help ensure continuous operation. It can also create the potential for enhanced safety and security benefits for our society to prevent costly security incidents. However, the cyber security of IP technology has been challenged by the pace of technology transition and development, creating potential safety and economic risks.

Cyber-attacks at the local and global scale are on the rise, and according to a 2016 report published by Grant Thornton, the total estimated global financial loss associated with cyber security attacks is estimated to be U.S. $315 billion each year. One example of a major cyber-attack occurred in the U.S. in October of 2016. Internet access was denied to many major websites, including Twitter, The Guardian, and CNN. This attack, which was the largest of its kind at that time, was conducted by a botnet virus called "Mirai" from infected Internet Protocol (IP) video devices on the internet.

Honeywell takes cyber security seriously and created a white paper to provide an overview of Honeywell's approach to cyber security, including its latest IP video surveillance products and systems designed to intelligently prevent dangerous attacks.

Please contact your Honeywell Security Sales representative to get the **Honeywell Cybersecurity White Paper**.

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