



IP Surveillance

Security Monitoring with Total IP Solution



PLANET
Networking & Communication

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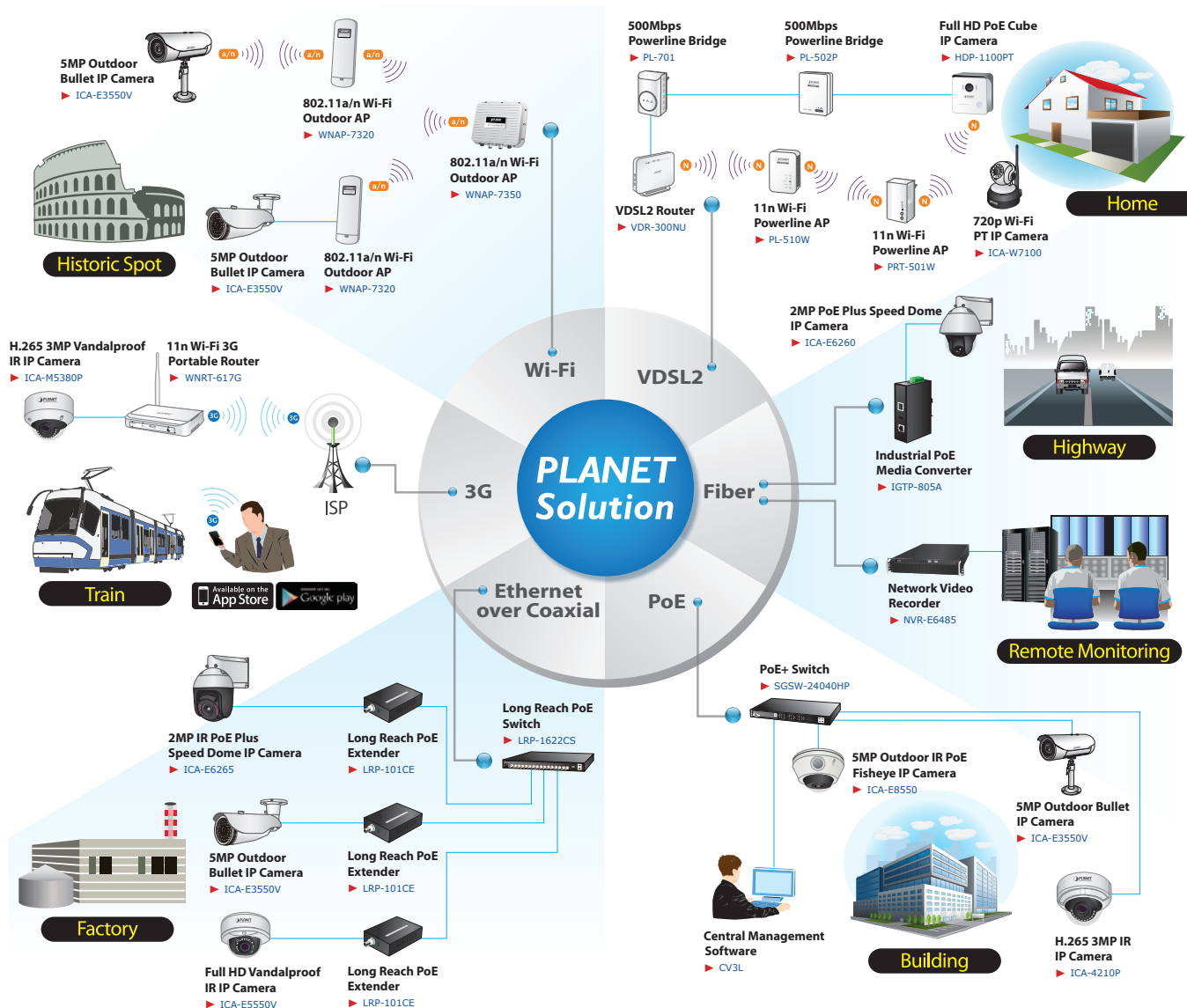
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All-Inclusive IP Surveillance Solution



2017 Product Roadmap

IP Surveillance - IP Cameras

IP Cameras													
Bullet					Dome			Vandal Dome					
720p/HD		2MP/Full HD	3MP	5MP	720p/HD	2MP/Full HD	3MP	2MP/Full HD	3MP	5MP			
				ICA-E3550V							ICA-E5550V		
Professional	Extended Surveillance												
			ICA-M3380P				ICA-M4320P				ICA-M5380P		
Mainstream	H.265												
		ICA-3150	ICA-3250	Smart Focus				ICA-4150	ICA-4250				Smart Focus
Retail	720p/1080p												
		IP66	IP66			IP66	IP66						

IP Cameras				NVR							Analog Camera		
P/T/Z Dome			Fisheye	4-Channel	8-Channel		16-Channel		32-Channel	64-Channel	Bullet	Dome	
720p	2MP/Full HD		5MP	HDVR (1-bay)	HDVR (1-bay)	NVR (2-bay)	HDVR (1-bay)	NVR (2-bay)	NVR (2U/8-bay)	NVR (2U/8-bay)	2MP/Full HD		
		ICA-E6260	ICA-E6265	ICA-E8550							NVR-E6480		
Professional													
	33x	33x with 150M IR	15M IR							Windows 7			
						NVR-915			NVR-1615	NVR-3685			
Mainstream													
				9-ch		16-ch		H.265					
		ICA-W7100			HDVR-430	HDVR-830	HDVR-1630					CAM-AHD325	CAM-AHD425
Retail													
	802.11n											AHD-NH	AHD-NH

H.265 Surveillance Solution

Less Storage Space & Less Bandwidth Usage

H.265 NVR

Ethernet

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IK10

Sony Exmor

Smart Focus

H.265

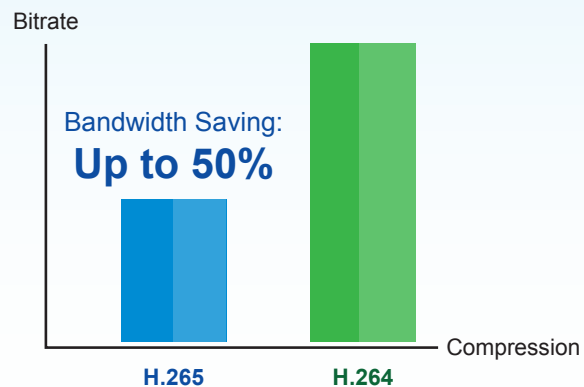
Bandwidth Saving: Up to 50%

ONVIF

Google play

Available on the App Store

Clearer Images Delivered but Less Space Taken Up for Compression



Exceptional Image Quality



Smart Focus with P-Iris



Real-time, Remote Monitoring



H.265 3 Mega-pixel IP Cameras

	Bullet Type	Dome Type	
Model	ICA-M3380P	ICA-M4320P	ICA-M5380P

Product Image



	H.265/H.264	SONY Sensor	Smart Focus	H.265/H.264	SONY Sensor	Smart Focus	H.265/H.264	SONY Sensor	Smart Focus
Sensor Type	1/2.8" Progressive CMOS			1/2.8" Progressive CMOS			1/2.8" Progressive CMOS		
Lens Type	f =2.8~12mm / F1.2			f =2.8~12mm / F1.2			f =2.8~12mm / F1.2		
View Angle	H:29~94°, V:23~72°			H:29~94°, V:23~72°			H:29~94°, V:23~72°		
Sensibility (Lux)	0.01 Lux (Color) 0 Lux (B/W)			0.01 Lux (Color) 0 Lux (B/W)			0.01 Lux (Color) 0 Lux (B/W)		
IR LED	22 (850nm)			12 (850nm)			12 (850nm)		
IR Effective Distance	25 meters			20 meters			20 meters		
ICR (IR-cut Removable)	●			●			●		
Image Compression	H.265/H.264/MJPEG			H.265/H.264/MJPEG			H.265/H.264/MJPEG		
Max Resolution	2048 x 1536 (30fps)			2048 x 1536 (30fps)			2048 x 1536 (30fps)		
Audio Capability	Two-way Audio			Two-way Audio			Two-way Audio		
Pan/Tilt/Zoom	Optical Zoom			Optical Zoom			Optical Zoom		
Zoom Ratio	4x Optical			4x Optical			4x Optical		
PoE	IEEE802.3af (Class 3)			IEEE802.3af (Class 3)			IEEE802.3af (Class 3)		
Wireless Interface	-			-			-		
Waterproof	IP66			-			IP66		
Vandalproof	-			-			IK10		
IPv6	●			●			●		
ONVIF	●			●			●		
WDR	●			●			●		
PIR	-			●			-		
DI/DO	1/1			1/1			1/1		
Intelligent Video	Motion			Motion			Motion		
On-board Storage	-			m SD/SDHC card slot			m SD/SDHC card slot		
Operating Temperature	-30°C~50°C			-30°C~50°C			-30°C~50°C		
Extended Software	CV7L			CV7L			CV7L		

NVR

H.265 36-Ch NVR	
Model	NVR-3685

Product Image



	H.265/H.264
LAN Ports	2 x 10/100/1000Mbps
Hard Drive	8 x 3.5" SATA HDD
RAID	Software RAID 0,1,5
e-SATA	●
USB	3
Database Backup	●
DI/DO	4/4
Two-way Audio (G.711/G.726)	●
Video Output	HDMI, VGA (1920 x 1200)
Video Channels	36 (H.265 only mode), 32 (H.265/H.264 mixed mode)
Video Split Mode	1, 4, 9, 16, 25, 32, 36 (H.265 mode), Full Screen
Video Compression	H.265/H.264
Video Resolution	5M, 3M, Full HD, SXGA, VGA, QVGA
Max. Live Video Frame Rate	Mixed mode: 960fps, H.265 only mode: 1080fps
Max. Bitrate	300Mbps
ONVIF	●
Auto-Configuration Planet IP CAM	●
Power Loss Recovery	●
Multi-Language	●
E-Map	●
Dual Stream	●
PTZ Control	●
Multi-Monitor	● (CMS)
Mobile Apps	● (iOS/Android)
Event Trigger	●
Intelligent Video (with CMS/Camera)	Motion, Tampering, Audio, Disconnect Detection
CMS	CV5-M256



Automatic License Plate Recognition for Intelligent Transportation Surveillance

Automatic License Plate Recognition

Record Video

5 Mega-pixel IP Camera with Extended Support

	Bullet Type	Dome Type
Model	ICA-E3550V	ICA-E5550V
Product Image		
	5MP	5MP
Sensor Type	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS
Lens Type	f = 2.8~12mm/F1.4	f = 2.8~12mm/F1.4
View Angle	H:28.2°~69.2°	H:28.2°~69.2°
Sensibility (Lux)	0.1 Lux (Color) 0 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)
IR LED	15 (850nm)	15 (850nm)
IR Effective Distance	30 meters	30 meters
ICR (IR-cut Removable)	●	●
Image Compression	H.264/MJPEG	H.264/MJPEG
Max Resolution	2592 x 1944 (15fps) 1920 x 1080 (30fps)	2592 x 1944 (15fps) 1920 x 1080 (30fps)
Audio Capability	two-way audio	two-way audio
Pan/Tilt/Zoom	digital zoom	digital zoom
Zoom Ratio	-	-
PoE	IEEE 802.3af (Class 2)	IEEE 802.3af (Class 2)
Wireless Interface	-	-
Waterproof	IP68	IP66
Vandalproof	IK10	IK10
IPv6	●	●
ONVIF	●	●
WDR	●	●
PIR	-	-
DI/DO	1/1	1/1
Intelligent Video	Motion	Motion
On-board Storage	mSDHC/SDXC card slot	mSDHC/SDXC card slot
Operating Temperature	-40°C~50°C	-40°C~50°C
Extended Software	CV7L, CV7-LP, CV7-VA	CV7L, CV7-LP, CV7-VA

2/5 Mega-pixel IP Camera with Extended Support

NVR

Speed Dome & Fish-eye Type				Professional	
Model	ICA-E6260	ICA-E6265	ICA-E8550	Model	NVR-E6480
Product Image				Product Image	
	Full HD 1080 IVS SONY Sensor	Full HD 1080 IVS SONY Sensor	SMP EN50155		RAID
Sensor Type	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/3.2" Progressive CMOS	Operating System	Windows 7 Standard Embedded
Lens Type	f = 4.5~148.5mm/F1.6~5.0	f = 4.5~148.5mm/F1.6~5.0	f = 1.19mm/F2.0	LAN Ports	2 x 10/100/1000Mbps
View Angle	H:3°~69.3°	H:3°~69.3°	H:189° (overview area), 115.3° (high detail area)	Hard Drive	8 x 3.5" SATA HDD
Sensibility (Lux)	0.1 lux (color) 0.05 lux (B/W)	0.05 lux (color) 0 lux (B/W)	0.1 lux (color) 0 lux (B/W)	RAID	Software RAID 0,1
IR LED	-	8 (850nm)	3 (850nm)	e-SATA	●
IR Effective Distance	-	150 meters	15 meters	USB	6
ICR (IR-cut Removable)	●	●	●	Joystick	USB-based joystick supported
Image Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	PTZ	●
Max Resolution	1920 x 1080 (60fps) 1280 x 720 (60fps)	1920 x 1080 (60fps) 1280 x 720 (60fps)	2592 x 1944 (15fps) 2048 x 1536 (15fps)	Two-way Audio (G.711/G.726)	●
Audio Capability	two-way audio	two-way audio	one-way audio	Video Output	VGA (1920 X 1200)
Pan/Tilt/Zoom	●	●	ePTZ	Video Channels	64
Zoom Ratio	33x Optical	33x Optical	-	Video Split Mode	Local: 1, 4, 5, 6, 8, 9, 10, 12, 16 Remote: 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64
PoE	IEEE 802.3at/AC 24V	IEEE 802.3at/AC 24V	IEEE 802.3af (Class 2)	Video Compression	H.264/MPEG4/MJPEG
Wireless Interface	-	-	-	Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)
Waterproof	IP67	IP66	IP68	Dual Stream	Live view of stream 1 or stream 2 of dual stream devices
Vandalproof	IK9	IK10	IK10	Max. Recording Frame Rate	Max. 1920 fps in total; max. 30 fps per camera
IPv6	●	●	●	Max. Recording Throughput	300Mbps
ONVIF	●	●	●	ONVIF	●
WDR	●	●	●	Synchronized Playback	Local: 9 channels Remote: 64 channels
PIR	-	-	-	Multi-Language	●
DI/DO	4/2	4/2	-	E-Map	●
Intelligent Video	Motion, Tampering, Shock, PTZ Auto Tracking	Motion, Tampering, PTZ Auto Tracking, Line Crossing, Enter Area, Missing Object, Unattended Object	Motion/Sound	Instant Playback	Instant playback in live view window
On-board Storage	mSDHC card slot	mSDHC card slot	mSDHC/SDXC card slot	Browser Support	IE10, 11
Operating Temperature	-40°C~55°C	-40°C~55°C	-20°C~50°C	Mobile Apps	● (iOS/Android)
Extended Software	CV7L, CV7-LP, CV7-VA	CV7L, CV7-LP, CV7-VA	CV7L, CV7-LP, CV7-VA	Video Export	Export video clips in AVI or RAW format
				Max. Number of Clients	1 local, 3 remote
				Intelligent Video (with CMS/Camera/ALPR/IVS)	Motion, Tampering, License Plate Recognition, Line Crossing, Enter Area, Missing Object, Unattended Object, Object Counting, People Counting
				Extended Software	CV7-M64, CV7-LP, CV7-VA

Video Analysis Software for IP Camera E-series

Model	CV7-LP	CV7-VA	Model	CV7L-64	CV7-M64
Product Image			Product Image		
Max. Channels	2/4	4/9	Software Type	VMS	CMS
Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	Max. Channels	64	64
Camera Resolution	10 Megapixels	10 Megapixels	Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Analyzed Stream	Live view and pre-recorded video from ICA-E series cameras or CV7L NVR	Live view and pre-recorded video from ICA-E series cameras or CV7L NVR	Camera Resolution	10 megapixels	10 megapixels
Algorithm	License Plate Recognition	Line Crossing/Enter Area/Missing Object/Unattended Object/Tamper/Object Counting/People Counting	Digital Zoom	Live view/Playback	Live view/Playback
License Plate of Country	Australia/Czech Republic/Denmark/Europe Region/Georgia/Hong Kong/Hungary/Ireland/Italy/Jordan/Malta/Mexico/Oman/Poland/Romania/Russia/Slovakia/South Korea/Spain/Taiwan/Tanzania/United Kingdom/United States	-	Two-way Audio	●	●
Max. Number of Algorithms	1 algorithm per channel	4 simultaneous algorithms per channel	Stream Management	Live view, recording of stream 1 or stream 2 of dual stream devices	Live view of stream 1 or stream 2 of dual stream devices
Event Recording	●	●	Instant Playback	Instant Playback in Live View Window	Instant Playback in Live View Window
Pre-event Recording	●	●	E-Map	●	●
Post-event Recording	●	●	Recording	Manual/Schedule/Event/Snapshot	Manual Recording/Snapshot
Recording Search	●	●	Search & Playback	●	●
Playback Control	●	●	Event Trigger	●	●
Search & Filter	Time, Plate Numbering Search	Time, Algorithm, Object Color	Event Response	●	●
Video Export	●	●	Playback Control	●	●
Display Resolution	Minimum 1024 x 768	Minimum 1024 x 768	Search & Filter	●	●
Integration	Compatible with CV7L NVR	Compatible with CV7L NVR	Video Export	●	●
System Requirements	CPU: Intel Core i7-920 2.67 GHZ, 4GB RAM or above	CPU: Intel Core i5 2.4 GHZ, 4GB RAM or above	Language	Multi-language support	Multi-language support
	32/64-bit: Windows 7, Windows 8 64-bit: Windows Server 2008 R2, Windows Web Server 2008 R2, Windows Server 2012 R2	32/64-bit: Windows 7, Windows 8, 32-bit: Windows Server 2008 64-bit: Windows Server 2008 R2, Windows Web Server 2008 R2, Windows Server 2012 R2	Remote Access	Mobile app viewer/PC Web browser/workstation	Mobile app viewer/PC Web browser/workstation
	Ethernet: 1000 BASE-T	Ethernet: 1000 BASE-T	System Requirements (Minimum)	CPU: Intel i5 2.4 GHZ, 4GB RAM or above OS: Windows 7, Windows 8, Windows 10 32/64-bit Windows Server 2012	CPU: Intel i5 2.4 GHZ, 4GB RAM or above OS: Windows 7, Windows 8, Windows Server 2012
				Ethernet: 1000 BASE-T	Ethernet: 1000 BASE-T

Enterprise Surveillance Managers

To meet advanced surveillance needs and manage IP cameras with one central management interface, the Cam Viewer 7, the most flexible solution for installers, provides a state-of-the-art IP surveillance system. This software supports the E-series of PLANET IP cameras, with the equipment connected directly to LAN or other TCP/IP network, such as the Internet. Digital recording is saved directly onto the hard drive(s) of the PC.



Instant playback in live view window

Synchronized playback of up to 64 channels

- Simultaneous recording and live video streams
- Supports M-JPEG/MPEG-4/H.264 compressions
- Video recycle function keeps the video recording 7/24
- Supports IVS (CV7-VA) and ALPR (CV7-LP) software
- Supports mobile client, web client and workstation remote access
- Exports recorded video file to AVI or RAW format
- Location-based management with eMap
- Real-time/playback video with high quality at 30/25 fps
- 2-way audio function
- Multiple languages support

Intelligent Video Analysis



Line Crossing



Enter Area



Unattended Object



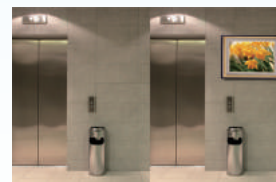
Object Counting



People Counting



Camera Tampering



Missing Object



IP Cameras

	Bullet		Dome		P/T/Z
Model	ICA-3150	ICA-3250	ICA-4150	ICA-4250	ICA-W7100
Product Image					
	HD 720	Full HD 1080 SONY Sensor	HD 720	Full HD 1080 SONY Sensor	HD 720
Sensor Type	1/4" Progressive CMOS	1/2.8" Progressive CMOS	1/4" Progressive CMOS	1/2.8" Progressive CMOS	1/4" Progressive CMOS
Lens Type	f = 3.6mm/F1.2	f = 3.6mm / F1.2	f = 3.6mm/F1.4	f = 3.6mm / F1.2	f = 3.6mm/F1.4
View Angle	H: 75° V: 55°	H: 74° V: 55°	H: 75° V: 55°	H: 74° V: 55°	H: 75° V: 55°
Sensibility (Lux)	0.1 Lux (Color) 0 Lux (B/W)	0.01 Lux (Color) 0 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)	0.01 Lux (Color) 0 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)
IR LED	30 (850nm)	30 (850nm)	24 (850nm)	24 (850nm)	11 (850nm)
IR Effective Distance	25 meters	25 meters	20 meters	20 meters	10 meters
ICR (IR cut Removable)	●	●	●	●	●
Image Compression	H.264	H.264	H.264	H.264	H.264
Max Resolution	1280 x 720 (30fps)	1920 x 1080 (30fps)	1280 x 720 (30fps)	1920 x 1080 (30fps)	1280 x 720 (30fps)
Audio Capability	-	Two-way Audio	-	Two-way Audio	Two-way Audio, built-in Mic 0 ~ 355° / 0 ~ 90° / Digital Zoom
Pan/Tilt/Zoom	Digital Zoom	Digital Zoom	Digital Zoom	Digital Zoom	
Zoom Ratio	-	-	-	-	-
PoE	IEEE 802.3af (Class 3)	IEEE802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE802.3af (Class 3)	-
Wireless Interface	-	-	-	-	●
Waterproof	IP66	IP66	IP66	IP66	-
Vandalproof	-	-	-	-	-
IPv6	-	-	-	-	-
ONVIF	●	●	●	●	●
WDR	●	●	●	●	●
PIR	-	-	-	-	-
DI/DO	-/-	-/-	-/-	-/-	1/1
Intelligent	Motion	Motion	Motion	Motion	Motion
On-board Storage	-	-	-	-	mSD/SDHC card slot
Operating Temperature	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C
Extended Software	CV7L	CV7L	CV7L	CV7L	CV7L

Analog Cameras

	Analog Cameras	
Model	CAM-AHD325	CAM-AHD425
Product Image		
Resolution	AHD 1080p	AHD 1080p
Sensitivity	0 lux with built-in IR LED	0 lux with built-in IR LED
Sensor	1/2.8" Sony CMOS sensor	1/2.8" Sony CMOS sensor
Lens	3.6mm/F1.2	3.6mm/F1.2
IR Distance	30 meter	20 meter
WDR	D-WDR	D-WDR
Day and Night	IRC switch	IRC switch
Digital Noise Reduction	2DNR/3DNR	2DNR/3DNR
Water Resistance	IP66	IP65



Enterprise NVRs

	Midrange Desktop		Mainstream
Model	NVR-915	NVR-1615	NVR-3685

Product Image



H.265/H.264

LAN Ports	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	2 x 10/100/1000Mbps
Hard Drive	2 x 3.5" SATA HDD	2 x 3.5" SATA HDD	8 x 3.5" SATA HDD
RAID	-	-	Software RAID 0,1,5
e-SATA	●	●	●
USB	2	2	3
Database Backup	●	●	●
DI/DO	4/4	4/4	4/4
Two-way Audio (G.711/G.726)	●	●	●
Video Output	HDMI, VGA (1920 x 1080)	HDMI, VGA (1920 x 1080)	HDMI, VGA (1920 x 1200)
Video Channels	9	16	36 (H.265 only mode), 32 (H.265/H.264 mixed mode)
Video Split Mode	1/4/6/9/full Screen	1/4/6/9/16/full Screen	1/4/9/16/25/32/36 (H.265 mode), Full Screen
Video Compression	H.264	H.264	H.265/H.264
Video Resolution	5M/3M/Full HD/SXGA/VGA/QVGA		5M, 3M, Full HD, SXGA, VGA, QVGA
Max. Live Video Frame Rate	120fps at 1080p	120fps at 1080p	Mixed mode: 960fps, H.265 only mode: 1080fps
Max. Bitrate	48Mbps	80Mbps	300Mbps
ONVIF	●	●	●
Auto-Configuration Planet IP CAM	●	●	●
Power Loss Recovery	●	●	●
Multi-Language	●	●	●
E-Map	●	●	●
Dual Stream	●	●	●
PTZ Control	●	●	●
Multi-Monitor	●	●	●
Mobile Apps	● (iOS/Android)	● (iOS/Android)	● (iOS/Android)
Event Trigger	●	●	●
Intelligent Video (with CMS/Camera)	Motion, Tampering, Audio, Disconnect Detection		Motion, Tampering, Audio, Disconnect Detection
CMS	CV5-M256	CV5-M256	CV5-M256

Hybrid DVRs

	Retail		
Model	HDVR-430	HDVR-830	HDVR-1630

Product Image



LAN Ports	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
Hard Drive	1 x 3.5" SATA HDD	1 x 3.5" SATA HDD	1 x 3.5" SATA HDD
RAID	-	-	-
e-SATA	-	-	-
USB	2	2	2
Database Backup	●	●	●
DI/DO	-	-	-
Two-way Audio (G.711/G.726)	●	●	●
Video Output	HDMI, VGA (1080p)	HDMI, VGA (1080p)	HDMI, VGA (1080p)
Video Channels	4	8	16
Video Split Mode	1/4/full Screen	1/4/9/full Screen	1/4/9/16/full Screen
Video Compression	H.264	H.264	H.264
Video Resolution	IP Camera: Full HD/HD Analog Camera: AHD/Analog		
Max. Live Video Frame Rate	25/30fps	25/30fps	25/30fps
Max. Bitrate	24Mbps	48Mbps	96Mbps
ONVIF	●	●	●
Auto-Configuration Planet IP CAM	-	-	-
Power Loss Recovery	●	●	●
Multi-Language	●	●	●
E-Map	-	-	-
Dual Stream	●	●	●
PTZ Control	●	●	●
Multi-Monitor	-	-	-
Mobile Apps	● (iOS/Android)	● (iOS/Android)	● (iOS/Android)
Event Trigger	●	●	●
Intelligent Video (with CMS/Camera)	Motion, Disconnect Detection		
CMS	CV4-M256	CV4-M256	CV4-M256



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