

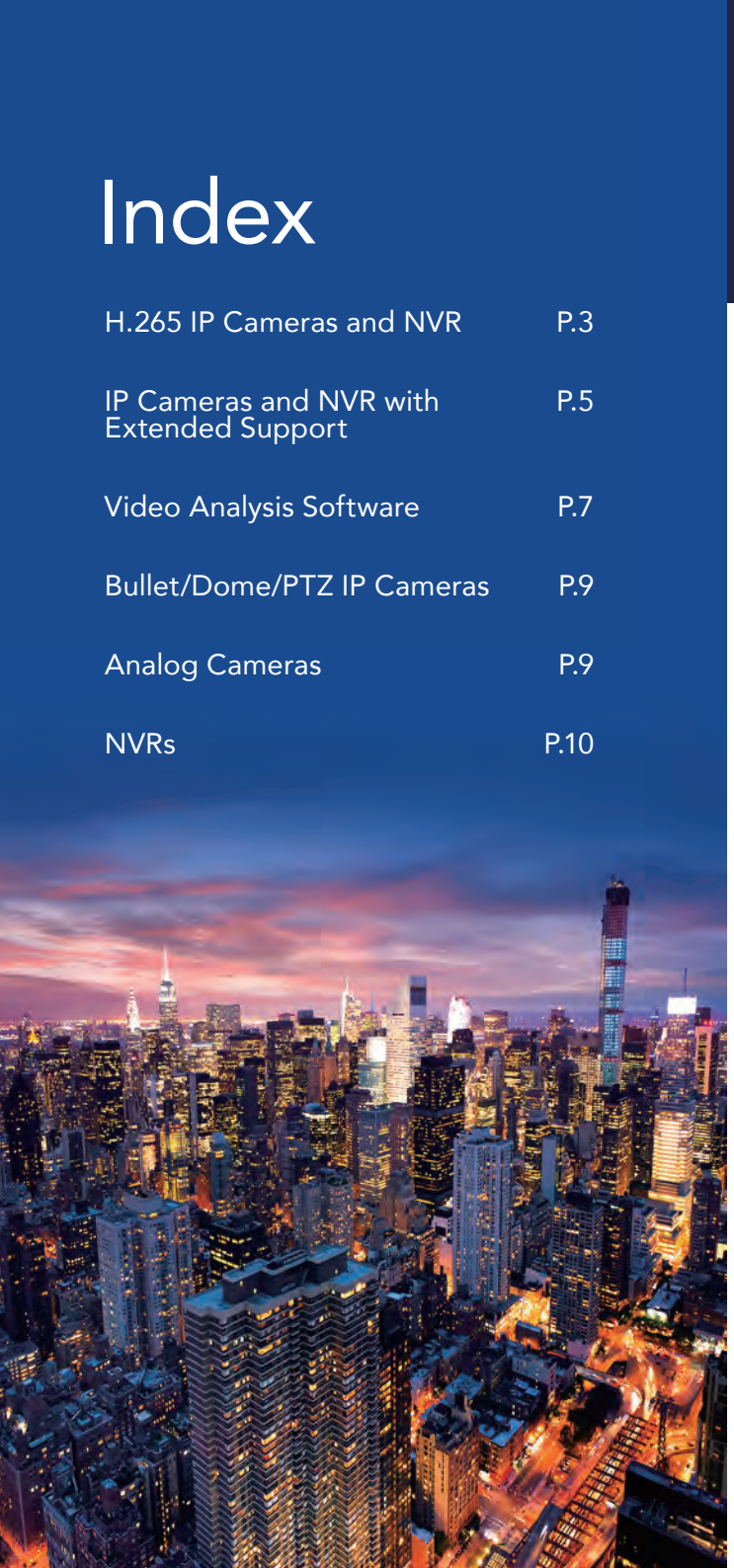
PLANET
Networking & Communication

IP Surveillance

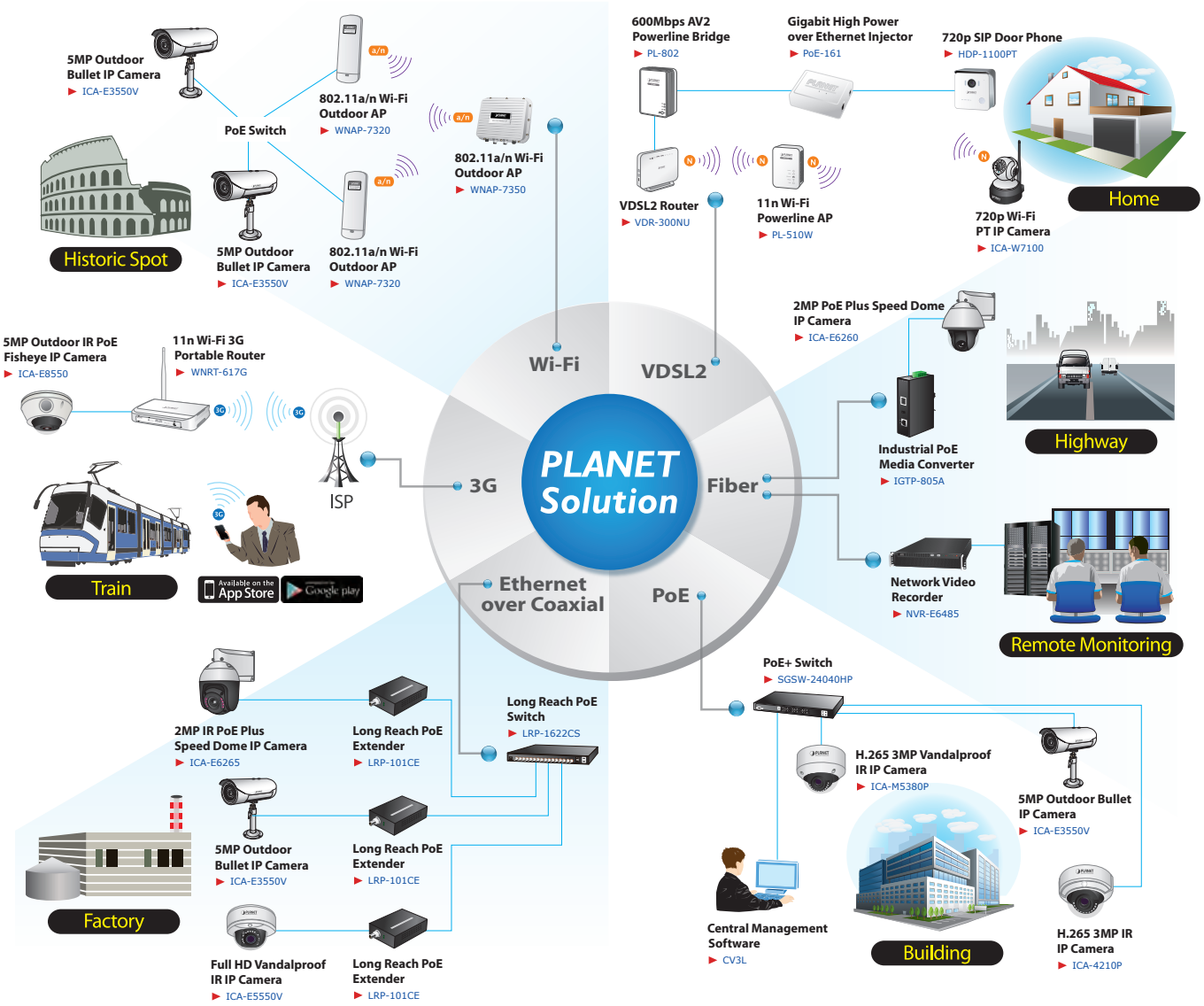
Security Monitoring with Total IP Solution

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All-Inclusive IP Surveillance Solution



2018 IP Surveillance Product Roadmap

IP Cameras

	Bullet			Dome		Dome	
	2MP/Full HD	3MP	5MP	2MP/Full HD	3MP	3MP	5MP
			ICA-E3550V				ICA-E5550V
Professional (Extended Surveillance)			 ALPR & IVS				 ALPR & IVS
		ICA-M3380P			ICA-M4320P	ICA-M5380P	
Mainstream (H.265)		 Smart Focus			 Smart Focus	 Smart Focus	
	ICA-3250			ICA-4250	ICA-4200V		
Retail (1080P)	 IP66			 IP66	 Vari Focal		

IP Cameras

	P/T/Z Dome		Fisheye
	720p	2MP/Full HD	5MP
		ICA-E6260 ICA-E6265	ICA-E8550
Professional		 33x  33x with 150M IR	 15M IR
	ICA-W7100		
Mainstream			
Retail	 802.11n		

NVRs

	4-Channel	8-Channel		16-Channel		32-Channel	64-Channel
	HDVR (1-bay)	HDVR (1-bay)	NVR (2-bay)	HDVR (1-bay)	NVR (2-bay)	NVR (2U/8-bay)	NVR (2U/8-bay)
							NVR-E6480
Professional							 Windows 7
			NVR-915		NVR-1615	NVR-3685	
Mainstream			 9-ch		 16-ch	 H.265	
	HDVR-430	HDVR-830		HDVR-1630			
Retail							

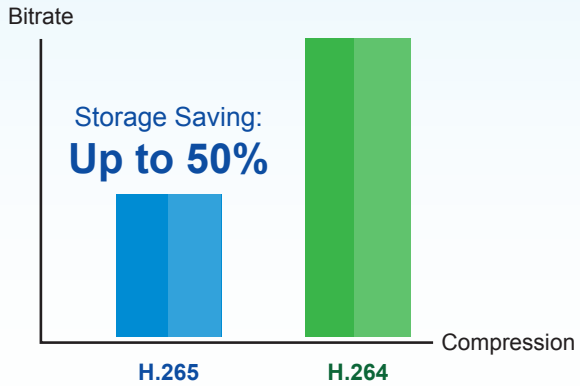
Analog Cameras

Bullet	Dome
2MP/Full HD	
CAM-AHD325	CAM-AHD425
 AHD-NH	 AHD-NH

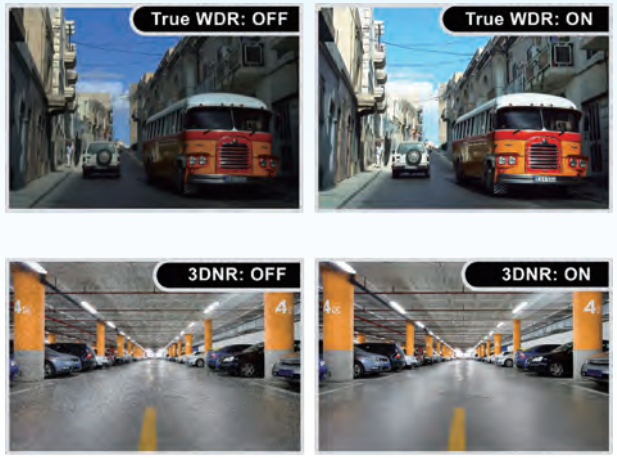
H.265 Surveillance Solution



Clearer Images Delivered but Less Space Taken Up for Compression



Exceptional Image Quality



Smart Focus with P-Iris



Blurred Auto Focus Clear

Real-time, Remote Monitoring



Live View Playback

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	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (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

H.265 NVR

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





5 Mega-pixel IP Cameras 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 Cameras with Extended Support

Speed Dome & Fisheye Type			
Model	ICA-E6260	ICA-E6265	ICA-E8550
Product Image			
	Full HD 1080 IVS SONY Sensor	Full HD 1080 IVS SONY Sensor	5MP EN50155
Sensor Type	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/3.2" Progressive CMOS
Lens Type	f = 4.5~148.5mm/F1.6~5.0	f = 4.6~165.6mm/F1.55~5.0	f = 1.19mm/F2.0
View Angle	H:3°~69.3°	H:3°~69.3°	H:189° (overview area), 115.3° (high detail area)
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)
IR LED	-	8 (850nm)	3 (850nm)
IR Effective Distance	-	150 meters	15 meters
ICR (IR-cut Removable)	●	●	●
Image Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
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)
Audio Capability	Two-way Audio	Two-way Audio	One-wayAudio
Pan/Tilt/Zoom	●	●	ePTZ
Zoom Ratio	33x Optical	36x Optical	-
PoE	IEEE 802.3at/AC 24V	IEEE 802.3at/AC 24V	IEEE 802.3af (Class 2)
Wireless Interface	-	-	-
Waterproof	IP67	IP66	IP68
Vandalproof	IK9	IK10	IK10
IPv6	●	●	●
ONVIF	●	●	●
WDR	●	●	●
PIR	-	-	-
DI/DO	4/2	4/2	-
Intelligent Video	Motion, Tampering, Shock, PTZ Auto Tracking	Motion, Tampering, PTZ Auto Tracking, Line Crossing, Enter Area, Missing Object, Unattended Object	Motion/Sound
On-board Storage	mSDHC card slot	mSDHC card slot	mSDHC/SDXC card slot
Operating Temperature	-40°C~55°C	-40°C~55°C	-20°C~50°C
Extended Software	CV7L, CV7-LP, CV7-VA	CV7L, CV7-LP, CV7-VA	CV7L, CV7-LP, CV7-VA

Windows-based NVR

64-ch NVR	
Model	NVR-E6480
Product Image	
	RAID
Operating System	Windows 7 Standard Embedded
LAN Ports	2 x 10/100/1000Mbps
Hard Drive	8 x 3.5" SATA HDD
RAID	Software RAID 0,1
e-SATA	●
USB	6
Joystick	USB-based joystick supported
PTZ	●
Two-way Audio (G.711/G.726)	●
Video Output	VGA (1920 X 1200)
Video Channels	64
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
Video Compression	H.264/MPEG4/MJPEG
Digital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)
Dual Stream	Live view of stream 1 or stream 2 of dual stream devices
Max. Recording Frame Rate	Max. 1920fps in total; max. 30fps per camera
Max. Recording Throughput	300Mbps
ONVIF	●
Synchronized Playback	Local: 9 channels Remote: 64 channels
Multi-Language	●
E-Map	●
Instant Playback	Instant playback in live view window
Browser Support	IE10, 11
Mobile Apps	● (iOS/Android)
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

	Cam Viewer License Plate Recognition	Intelligent Cam Viewer
Model	CV7-LP	CV7-VA
Product Image		
Max. Channels	2/4	4/9
Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Camera Resolution	10 Megapixels	10 Megapixels
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
Algorithm	License Plate Recognition	Line Crossing/Enter Area/Missing Object/Unattended Object/Tamper/ Object Counting/People Counting
License Plate of Country	Ireland, Europe Region, Jordan, Slovakia, Hong Kong, Italy, Czech Republic, Poland, Romania, Denmark, Mexico, Oman, Austria, Australia, Bulgaria, Canada, Costa Rica, Ecuador, Georgia, Germany, Greece, Guatemala, Hungary, Indonesia, Japan, Kuwait, Laos, Malaysia, Malta, Mongolia, New Zealand, Russia, South Korea, Spain, Taiwan, Tanzania, Thailand, UK, Ukraine, US	-
Max. Number of Algorithms	1 algorithm per channel	4 simultaneous algorithms per channel
Event Recording	●	●
Pre-event Recording	●	●
Post-event Recording	●	●
Recording Search	●	●
Playback Control	●	●
Search & Filter	Time, Plate Numbering Search	Time, Algorithm, Object Color
Video Export	●	●
Display Resolution	Minimum 1024 x 768	Minimum 1024 x 768
Integration	Compatible with CV7L NVR	Compatible with CV7L NVR
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
	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
	Ethernet: 1000 BASE-T	Ethernet: 1000 BASE-T

	Cam Viewer Lite	Central Management Software
Model	CV7L-64	CV7-M64
Product Image		
Software Type	VMS	CMS
Max. Channels	64	64
Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Camera Resolution	10 megapixels	10 megapixels
Digital Zoom	Live view/Playback	Live view/Playback
Two-way Audio	●	●
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
Instant Playback	Instant Playback in Live View Window	Instant Playback in Live View Window
E-Map	●	●
Recording	Manual/Schedule/Event/Snapshot	Manual Recording/Snapshot
Search & Playback	●	●
Event Trigger	●	●
Event Response	●	●
Playback Control	●	●
Search & Filter	●	●
Video Export	●	●
Language	Multi-language support	Multi-language support
Remote Access	Mobile app viewer/PC Web browser/workstation	Mobile app viewer/PC Web browser/workstation
System Requirements (Minimum)	CPU: Intel i5 2.4 GHZ, 4GB RAM or above	CPU: Intel i5 2.4 GHZ, 4GB RAM or above
	OS: Windows 7, Windows 8, Windows 10 32/64-bit Windows Server 2012	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 MJPEG/MPEG4/H.264 compressions
- Video recycle function keeps the video recording 24/7
- Supports IVS (CV7-VA) and ALPR (CV7-LP) software
- Supports mobile client, web client and workstation remote access
- Exports recorded video file in AVI or RAW format
- Location-based management with eMap
- Real-time/playback video with high quality at 30/25fps
- 2-way audio function
- Multiple languages support

Intelligent Video Analysis



Line Crossing



Enter Area



Unattended Object



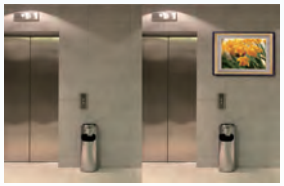
Object Counting



People Counting



Camera Tampering



Missing Object



IP Cameras

	Bullet	Dome		P/T/Z
Model	ICA-3250	ICA-4250	ICA-4200V	ICA-W7100
Product Image				
	Full HD 1080 SONY Sensor	Full HD 1080 SONY Sensor	PIR	HD 720 802.11
Sensor Type	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.7" Progressive CMOS	1/4" Progressive CMOS
Lens Type	f =3.6mm / F1.2	f =3.6mm / F1.2	f = 2.8 ~ 12mm/F1.2	f = 3.6mm/F1.4
View Angle	H:74° V:55°	H: 74° V: 55°	H: 35.8 ~ 100.5° V: 26.8 ~ 73.4°	H: 75° V: 55°
Sensibility (Lux)	0.01 Lux (Color) 0 Lux (B/W)	0.01 Lux (Color) 0 Lux (B/W)	0.5 Lux(Color) 0.1 Lux (B/W)	0.1 Lux (Color) 0 Lux (B/W)
IR LED	30 (850nm)	24 (850nm)	12 (850 nm)	11 (850nm)
IR Effective Distance	25 meters	20 meters	20 meter	10 meters
ICR (IR cut Removable)	●	●	●	●
Image Compression	H.264	H.264	H.264	H.264
Max Resolution	1920 x 1080 (30fps)	1920 x 1080 (30fps)	1920*1080 (30fps)	1280 x 720 (30fps)
Audio Capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio, built-in Mic
Pan/Tilt/Zoom	Digital Zoom	Digital Zoom	Digital Zoom	0 ~ 355° / 0 ~ 90° / Digital Zoom
Zoom Ratio	-	-	-	-
PoE	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	IEEE 802.3af (Class 3)	-
Wireless Interface	-	-	-	●
Waterproof	IP66	IP66	-	-
Vandalproof	-	-	-	-
IPv6	-	-	●	-
ONVIF	●	●	●	●
WDR	●	●	●	●
PIR	-	-	●	-
DI/DO	-/-	-/-	1/1	1/1
Intelligent	Motion	Motion	Motion / Tampering / Audio / network disconnect	Motion
On-board Storage	-	-	mSD/SDHC card slot	mSD/SDHC card slot
Operating Temperature	-10°C to 50°C	-10°C to 50°C	0°C to 50°C	-10°C to 50°C
Extended Software	CV7L	CV7L	CV7L	CV7L

Analog Cameras

	Analog Cameras	
Model	CAM-AHD325	CAM-AHD425
Product Image		
	SONY Sensor	SONY Sensor
Resolution	1080p	1080p
Hybrid Signal	AHD/TVI/CVI/CVBS	AHD/TVI/CVI/CVBS
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 meters	20 meters
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	NVR-E6480
Product Image				
			H.265/H.264	
LAN Ports	1 x 10/100/1000Mbps	1 x 10/100/1000Mbps	2 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	8 x 3.5" SATA HDD
RAID	-	-	Software RAID 0,1,5	Software RAID 0,1
e-SATA	●	●	●	●
USB	2	2	3	6
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)	VGA (1920 X 1200)
Video Channels	9	16	36 (H.265 only mode), 32 (H.265/H.264 mixed mode)	64 (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	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
Video Compression	H.264	H.264	H.265/H.264	H.264
Video Resolution	5M/3M/Full HD/SXGA/VGA/QVGA		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. 1920fps in total; max. 30fps per camera
Max. Bitrate	48Mbps	80Mbps	300Mbps	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)	● (iOS/Android)
Event Trigger	●	●	●	●
Intelligent Video (with CMS/Camera)	Motion, Tampering, Audio, Disconnect Detection		Motion, Tampering, Audio, Disconnect Detection	Motion, Tampering, License Plate Recognition, Line Crossing, Enter Area, Missing Object, Unattended Object, Object Counting, People Counting
CMS	CV5-M256	CV5-M256	CV5-M256	CV7-M64, CV7-LP, CV7-VA

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 system	PAL (625Lines, 50f/s) NTSC (525lines, 60f/s)		
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	●	●	●
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	Motion, Disconnect Detection	Motion, Disconnect Detection
CMS	CV4-M256	CV4-M256	CV4-M256

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