

Technical Specifications

Full HD IR Bullet IP Camera

FOR INTERNAL/EXTERNAL APPLICATIONS

- Full HD 1080p 30fps
- H.264 and MJPEG compression
- True Day/Night and WDR
- 35m (115ft) viewing distance
- Remote zoom and focus
- Embedded VCA Technology Video Analytics
- microSD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af)



CAMERA		Image Settings	Configurable brightness, contrast, saturation, sharpness	
Model	IPN6702HD-6311Z IPN6702HD-6311Z-H	Orientation Control	Flip / Mirror / Corridor Mode(-90°, +90°)	
Image Sensor	SONY EXMOR 1/2.9" 1080p CMOS Motorized Focus & Zoom Lens	Noise Filter	Supported (0 ~ 3)	
Effective Pixels	1920 x 1080	Defogging	Supported	
Scanning System	Progressive scanning	Smart Bitrate Control	Supported (It works in VBR mode)	
AGC Control	Auto	Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV	
Auto IRIS (DC)	Supported	White Balance	ATW1 / ATW2 / Push / Manual	
Minimum Illumination	Color: 0.5 Lux (50IRE) / 0.2 Lux (30IRE, Sens-up) B/W : 0 Lux (IR LED On)	Back Light Compensation	On(possible to designate zone) / Off	
Lens	2.8(w) – 12.0mm(t), F1.4(w) – F2.6(t), Optical 4x	Flicker Control	Normal, 50Hz, 60Hz	
Angle of View	Horizontal: Approx. 100°(Wide) to 35°(Tele) Vertical: Approx.54°(Wide) to 20°(Tele)	DSS (Sens-up)	2X ~ 16X	
Shutter Time	1/10,000s to 1/2s	Video Stabilization	Supported	
Day & Night	True Day & Night (Removable IR-cut filter)	Burnt-in Text	Time stamp and text caption overlay	
Wide Dynamic Range	Digital WDR	Privacy Mask	4 configurable regions	
		Analogue Output	NTSC / PAL	
IR ILLUMINATOR		AUDIO		
IR LED	High Power IR LED x 16 (850nm)	Audio Streaming	-	
IR working distance	Max. 35m	Audio Compression	-	
SMART IR	Supported (Automatically adjust the infrared light to the best, according to the brightness of the scene)	Audio input / output	-	
VIDEO		NETWORK		
Video Compression	H.264 Baseline, Main, High profile(MPEG-4 Part 10/AVC), MJPEG(Motion JPEG)	Ethernet Standard	10 / 100 Base-T	
Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth(VBR/CBR) MJPEG: Controllable frame rate, JPEG quality	IP	IPv4, IPv6	
Resolutions	16:9 mode	1920 x 1080, 1280 x 720, 1120 x 630, 960 x 540, 800 x 450, 640 x 360, 480 x 270, 320 x 180	Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP, RTMP
	4:3 mode	SXGA(1280x960), XGA(1024x768), SVGA(800x600), PAL(720x576), NTSC(720x480), VGA(640x480), QVGA(320x240)	Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection
Frame Rate	H.264: Max 30fps in all resolution MJPEG: Max 30fps in all resolution	Users	Live viewing for up to 10 clients	
		INTEGRATION		
		Application Programming Interface	Software Development Kit(SDK) available	

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ONVIF Compliance	Profile S, Profile G
Event Sources	Sensor(DI); Alarm(DO); Video Motion Detection; Face Detection; Tamper Detection; Video Content Analytics(VCA); Network Loss/Detect; Network Setting Change; Time(Recurrence/Schedule); Storage Error
Event Actions	File upload: E-mail, FTP Notification: E-mail, FTP, HTTP, TCP Trigger-Alarm(DO) Recording Event Log Saving
Event Metadata Streaming (RTSP/RTP)	Video Motion Detection(MD); Video Content Analytics(VCA)

GENERAL	
Material	Aluminum Die-Casting; Ivory
External I/O Terminals	1x Alarm In, 1x Alarm Out
Language on webpage	Korean, English, Chinese
Power Source / Consumption	IPN6702HD-6311Z: DC12V, PoE / Max. 9W @ DC12V IPN6702HD-6311Z-H: DC12V, PoE/Max. 19W @ DC12V
Operating conditions	Humidity up to 85% RH (non-condensing)
	IPN6702HD-6311Z [DC12V/PoE] -20°C ~ 50°C (-4°F ~ 122°F) IPN6702HD-6311Z-H [DC12V] -40°C ~ 50°C (-40°F ~ 122°F); Built-in heater [PoE] -20°C ~ 50°C (-4°F ~ 122°F)
Lowest Temperature for Device's Start-up	IPN6702HD-6311Z-H: [DC12V/PoE] -10°C (14°F)
Approvals	FCC, CE, KC, IP66
Weight	IPN6702HD-6311Z: 870g (1.92lb) IPN6702HD-6311Z-H: 880g (1.94lb)
Dimensions (W x H x D)	86mm x 83.5mm x 280mm (3.4" x 3.3" x 11")

EDGE STORAGE	
Storage	1 x microSD memory card slot(SD/SDHC up to 32GB, card not included)*
Recording Types	Continuous Recording or Event Recording
Continuous Recording	Instant recording; Search & Download
Event Recording	Search of Event Logs; Playback; Download

VIDEO ANALYTICS	
Analytics Engine	VCA Technology's advanced tracking algorithm with rich library of detection behaviors
Detection Zones and Rules	40 zones (Multi-segment Polygons and Lines) in total 60 rules in total
Tamper Detection	Supported
Auto Tracking	-
VCA Preset	-

VIDEO ANALYTICS (Optional Features)	
Detection Behavior	Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter; Tailgating; Color Filter
Logical Rules	Extends standard rules to allow various combinations of the inputs
3D Behavior	Perspective Corrected Size and Speed Filters
Object Classification	Configured Max./Min. object sizes and Max./Min. speeds
People Tracking	Tracks individuals separately among overlapped multiple people
Counting Line	High accuracy people and vehicle counting
Counting	20 counters in total
Counter Report	Generates counter reports based on the counter database
Heatmap Report	Shows relative crowd density of the 24 hour period (criterion: midnight)
Meta Data	Plain XML Format

Dimensions

(Unit: mm)

