

## Technical Specifications

## Full HD Ultra Compact Dome IP Camera

## FOR INTERNAL APPLICATIONS

- Full HD 1080p 30fps
- H.264 and MJPEG compression
- Digital Day/Night and WDR
- Burnt-in Text
- Video Motion Detection
- Embedded VCA Technology Video Analytics
- MicroSD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af)



CAMERA		
Model	IPN302HD-5117 IPN302HD-5117-F36 IPN302HD-5117-F60	
Image Sensor	1/2.7" 1080p CMOS	
Effective Pixels	1920 x 1080	
Scanning System	Progressive scanning	
AGC Control	Auto	
Auto IRIS (DC)	-	
Minimum Illumination	Color: 1.0Lux / B/W : 0.001Lux (DSS ON)	
Lens	IPN302HD-5117: 2.8mm, F2.0 IPN302HD-5117-F36: 3.6mm, F2.0 IPN302HD-5117-F60: 6.0mm, F2.0	
Angle of View	IPN302HD-5117: Horizontal: Approx. 110° Vertical: Approx.81.5° IPN302HD-5117-F36: Horizontal: Approx. 94° Vertical: Approx.50° IPN302HD-5117-F60: Horizontal: Approx. 56° Vertical: Approx.31°	
Shutter Time	1/10,000s to 1/2s	
Day & Night	Digital Day & Night	
Wide Dynamic Range	Digital WDR	
Focus Assist	Supported	
VIDEO		
Video Compression	H.264 Baseline, Main, High profile(MPEG-4 Part 10/AVC), MJPEG(Motion JPEG)	
Video Streaming	Dual Stream, Configurable streams in H.264, MJPEG H.264: Controllable frame rate, bandwidth(VBR/CBR) MJPEG: Controllable frame rate, JPEG quality	
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
	4:3 mode*	SXGA(1280x960), XGA(1024x768), SVGA(800x600), PAL(720x576), NTSC(720x480), VGA(640x480), QVGA(320x240)
Frame Rate	H.264: Max 30fps in all resolution MJPEG: Max 30fps in all resolution	
Image Settings	Configurable brightness, contrast, saturation, sharpness	
Image Orientation	Flip / Mirror ./ Corridor Mode(-90°, +90°)	
Noise Filter	Supported (0 ~ 3)	
Defogging*	Supported	
Smart Bitrate Control	Supported (It works in VBR mode)	
Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV	
White Balance	ATW1 / ATW2 / Push / Manual	
Back Light Compensation	On(possible to designate zone) / Off	
Flicker Control	Normal, 50Hz, 60Hz	
DSS (Sens-up)	2X ~ 16X	
Video Stabilization	Supported	
Burnt-in Text	Time stamp and text caption overlay	
Privacy Mask	4 configurable regions	
Analogue Output	-	
AUDIO		
Audio Streaming	-	
Audio Compression	-	
Audio input / output	-	
NETWORK		
Ethernet Standard	10 / 100 Base-T	
IP	IPv4, IPv6	
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP*, RTMP*	
Security	HTTPS(SSL), IP Filtering, Multi-level access with password protection	
Users	Live viewing for up to 10 clients	
INTEGRATION		
Application Programming Interface	Software Development Kit(SDK) available	
ONVIF Compliance	Profile S, Profile G	

\*Supported in FW V1.10.0.7 or the above

\*\*Class4 or higher SD cards are recommended for HD recordings.

**Technical Specifications**

<b>Event Sources</b>	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*
<b>Event Actions</b>	File upload: E-mail, FTP Notification: E-mail, FTP, HTTP, TCP Trigger-Alarm(DO) Recording Event Log Saving
<b>Event Metadata Streaming (RTSP/RTP)</b>	Video Motion Detection(MD); Video Content Analytics(VCA)

GENERAL	
<b>Material</b>	Aluminum Die-Casting (Vandal Resistance)
<b>External I/O Terminals</b>	-
<b>Language on webpage</b>	Korean, English, Chinese
<b>Power Source / Consumption</b>	PoE / 2.4W @ PoE
<b>Operating conditions</b>	Humidity up to 85% RH (non-condensing) 0°C ~ 40°C (32°F ~ 104°F)
<b>Approvals</b>	FCC, CE, KC, IK09, UL
<b>Weight</b>	270g (0.6 lbs)
<b>Dimensions (W x H)</b>	Ø105.5mm x 55.5mm (4.2" x 2.2")

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

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

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

**Dimensions**

(Unit: mm)

