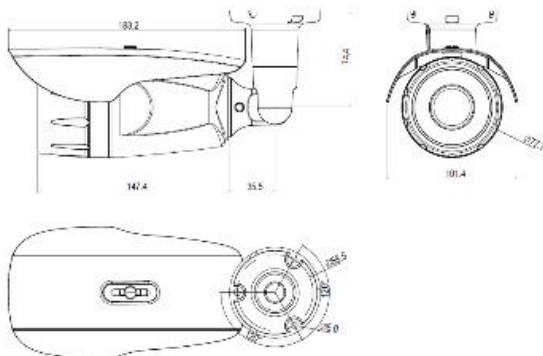# FW9901-FTM   2MP Motorized Bullet AI Camera

FW7901-FTM is a high quality IR bullet IP camera that utilizes AI to detect and classify people, vehicles, faces, license plates and more in real-time. The cameras' deep-learning algorithms can reliably identify multiple distinct objects. Reduce false alarms due to none interesting motion, like wind-blown trees, shadows, or animals. Analytics become a reliable second pair of eyes to operators helping them know where to look for important real-time events, while making post-event forensic searches highly efficient.

Key Features

- Analytics events based on AI engine: Person/ Vehicle - car, truck, bus, bicycle, motorcycle/License plate detection

- Ambarella platform – Backdoor Issue free

- Sony Starvis (1/2.8") 2.13MP PS CMOS Sensor

- Night Color with super high sensitive sensor

- 2.8~12.0mm Motorized Auto Focus Lens

- Quadruple Stream (H.265, H.264, M-JPEG, JPEG)

- Max. 30fps @ 2MP (1920x1080)

- DOL WDR (>120dB)

- Night Color level adjustment (B/W, 10, 20, 30, 40, 50)

- Shutter limit (Min./Max.) setting

  - Good for the better night time moving object image

Dimensions

Camera	
Imaging Sensor	1/2.8" 2.13MP Sony Starvis PS CMOS Sensor
Lens	2.8~12.0mm Motorized Auto Focus
Day & Night	True Day & Night (ICR)
Min. Illumination	Color : 0.05 lux B/W : 0.0005 lux / 0 lux (IR On)
Video Stream	
System	Ambarella 32bit Embedded Linux 256Mbyte SDRAM, 128Mbyte NAND Flash
Compression	H.265, H.264, M-JPEG, JPEG
Resolution	1920x1080, 1280x720, 704x480, 640x352, 320x176, 160x96
Frame rate	30fps/25fps @ Full-HD
Video Stream	Quadruple Streaming, selectable : H.265/H.264/MJPEG, Frame rate, Bitrate, VBR/AVBR/CBR/ACBR, GOP
Video Setting	
Motion Detection	4 Areas
Audio Detection	Enable (sensitivity setting) / Disable
Privacy Masking	8 Areas
Video Analytics	Optional (Face Detection, Tampering, Tripwire etc.)
Smart Video	ROI
Exposure Mode	Indoor / Outdoor
AE Metering Mode	Spot / Center / Average / Venter Flip
Shutter Control	Manual (Min./Max. Setting) / Auto
Max AGC Gain	0~72
Sense Up Level	Off / 1 / 2
Back Light Compensation	Enable / Disable
Auto Exposure Weight	25% ~ 400%
WDR	DOL WDR (Enable / Disable), D-WDR 0~128
Image Adjustment	Brightness / Contrast / Hue / Saturation / Sharpness
White Balance	Auto / Manual / 9 Special Condition / Custom
3DNR	0~11
Day & Night Control	Color / Black&White / AutoNight Color (B/W, 10, 20, 30, 40, 50)
Image Direction	Vertical Flip / Horizontal Flip / Corridor Mode
Network	
Security	IP Filtering, HTTPS, Encrypted & Basic Authentication, Management White List
Supported protocols	HTTP, RTP/RTSP(Uni/Multicast), TCP/IP(v4/v6), UDP, FTP, Telnet, HTTPS, RARP, SNMP, DHCP, NTP, SMTP client, uPnP&etc
DDNS	www.ipcctvdns.com
Interface	RJ45 Ehternet 10/100Mbps
System Integration	
Programing Interface	SDK, OnVIF Profile S
Video Analytic	Person/Face/Vehicle(car/bus/truck/motorcycle/bicycle)/License plate), IVA (Virtual line/Area, Enter/Exit, Loitering, direction, Appear/Disappear, intrusion
Triggering Event	Motion detection, triggering DI, triggering serial input, connected/ disconnected, boot finished
Action on Event	Pre-alarm & Post-alarm buffer. Upload FTP, Email notification, Metadata including information (person,

	face, vehicle, license plate)
Connection	1 DI/ 1DO, RS485
Illuminator	
Type	30 IR LEDs
Distance	Max. 30Meter
Onboard storage	
Type	1 MicroSD Slot
Recording	Always, Schedule, Event, Schedule & Event
Playback	Internet Explorer, FlexWATCH NVR/ CMS/ Mobile App
Video / Audio	
Video Out	1 CVBS
Audio Compression	8bit G.711, 8Khz, 8KByte/sec
Audio stream	2 way (Optional)
Connection	1 Audio In / 1 Audio Out
General	
Case	Metal
Power Supply	SMPS, DC12V / 1A PoE : IEEE 802.3af
Power Consumption	Max. 7.2W
Operating Environment	-20℃ ~ +60℃, 10% ~ 90% RH
Dimension	58φ x 258(L) x 85(H) mm
Weight	About 669g without Power Supply
Approval	KC, CE, FCC, RoHS, IP66
Accessories	-
Bundle Software	IP Installer, SMVP, Smart NVR Lite