



**EVOKING TRUST**



**Intelligent Video  
Analysis at Edge  
IP-30 Camera Series**



# STARVIS 2MP 30X IR PTZ IP CAMERA IP-30203LPT



**About the Camera :** IP 30 Series cameras are Artificial Intelligence powered latest camera series by Wavesys. It is built on advanced system-on-chip technology from California based company Ambarella and Sony Starvis Sensors. The IP30 series cameras are integrated with Wavesys Open Platform Enterprise Level Video Management Software WVMS. Wavesys is a video-based business intelligence leader with deep knowledge of different applications of intelligent video across distinct verticals.

## Key Features

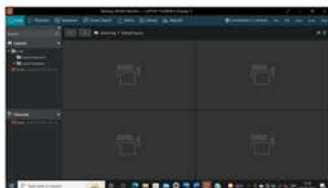
- Full HD 1080p 30fps
- 30x optical and 12x digital zoom
- WaveVCA\*: Intelligence built-in Camera Analytics
- Power over Ethernet (IEEE 802.3af)
- UL, CE, FCC, BIS & RoHS Certification
- H.265, H.264 and MJPEG compression
- WaveStream: Smart Compression Technology based on bit rate Control, ROI
- IP67 and IK10 Environmental Housing

## Application





## Key features of WVMS



WVMS Professional – Monitoring Console



WVMS Enterprise – Wall & Redundancy



WVMS Facial Recognition Module



WVMS Video Content Analytics



WVMS License Plate Recognition



WVMS Mobile Application

## Specification

### Camera

<b>Model</b>	<b>IP-30203LPT</b>
Image Sensor	Outdoor, 30X
Effective Pixels	1/2.8" 2.4MP CMOS
Scanning System	1920(H) x 1080(V)
AGC Control	Progressive scanning
IRIS Type	Auto
Minimum Illumination	Auto IRIS
Lens	Color: 0.05 Lux / B/W: 0 Lux (IR LED On)
Angle of View	4.3(w) – 129.0mm(t), F1.6(w) – F4.7(t) Optical 30x, Digital 12x
Shutter Speed	Horizontal: Approx. 63.7°(wide) to 2.3°(tele) Vertical: approx. 38.5° (wide) to 1.3° (tele)
Day & Night	Auto / Manual: 1/30 ~ 1/32,000, Anti-Flicker, Slow Shutter (1/2, 1/3, 1/5, 1/8, 1/7.5, 1/10)
Wide Dynamic Range	True Day & Night (Removable IR-cut filter)
Smart Capture Technology	True WDR, 120 dB or above
S/N Ratio	WaveCapture: Smart Advanced Wide Dynamic Capture for high details in challenging conditions
	50 Db
<b>IR ILLUMINATOR</b>	
Smart IR	WaveIR :- Advanced Smart IR
IR Working Distance	80-100mtr, depending on object size
<b>VIDEO</b>	
Video Compression	H.265, H.264, MJPEG
Profile	H.264: MP / HP
	H.265: MP
Multiple Profile Streaming	1080p30 + DI(704x480 or 704x576) p30 with H.264,
Performance	H.265 + MJPEG
Max Resolution	1920 x 1080
Video Bit Rate	100Kbps ~ 10Mbps
	Multi-rate for Preview and Recording
Bitrate Control	Multi Streaming CBR/VBR
	(Controllable frame rate and Bandwidth)
Digital Noise Reduction	3D-DNR
Privacy Mask	16 programmable zones (3d)
Special Features	WaveStream: Smart Compression Technology based on bit rate Control- Region of Interest
Other Image Processing	Configurable Exposure, White Balance, Sharpness
<b>AUDIO</b>	
Audio Streaming	Two Way
Audio Compression	G.711

Audio input	1
Audio output	1
<b>EVENT</b>	
Event Trigger	Motion alarm, Temperature critical, DI
Smart Edge Analytics*	WaveVCA: Intelligence built-in Cameras Analytics*
Pre-Post Recording	Pre: 1-5 sec Post: 1-240 sec
Event Notification	FTP, E-mail, Alarm-out, SD card
<b>NETWORK</b>	
Ethernet Standard	10 / 100 Base-T
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPv1/v2/v3(MIB-2), ONVIF
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication
Plug In	ONVIF Profile S, CGI API
<b>GENERAL</b>	
Material	Aluminum Die-casting, White
External I/O Terminals	1x Alarm In / 1x Alarm Out
Housing Environmental Rating	IP66
Housing Impact Rating	IK 10
Language on webpage	English
Power Source	AC24V, Ultra PoE (IEEE 802.3bt Class 5)
Power Consumption	AC24V Max 35W, PoE Max 42W
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -20°C ~ 50°C (-4°F ~ 122°F)
Approvals	FCC, CE, ROHS, BIS, UL
Weight	2.8 kg
Dimensions (W x H)	Ø150mm x 232mm
<b>EDGE STORAGE</b>	
Storage	1x microSD / microSDHC / microSDXC (card not included)
Pan / Tilt Range	Pan Range: 360° Endless Rotation Tilt Range: -5° ~ 90°, Auto-flip 180°
Pan/Tilt Speed	Up to 360°/s
Number of Preset	255 preset points
Preset Accuracy	±0.2°(Preset point)

## WaveVCA : Intelligence built-in Cameras Analytics

### Basic features

**Analytics Engine** WVCA 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 as standard

**Intrusion Detection** Detection of the presence of an object

**Tamper Detection** Supported as standard



Intrusion Detection



Tamper Detection



Zones & lines

### Optional features

**Detection Behavior** Enter, Exit, Appear, Disappear, Stop, Direction, Dwell filter, Abandoned/Removed object filter, Tailgating

**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 Counting Line High accuracy people and vehicle counting, 20 counters in total

**Meta Data** JSON format, Plain XML format



Enter Filter



3D Calibration



Tailgating Filter



Appear Filter



Counting



Exit Filter



Dwell Filter



Disappear Filter



Removed Object Filter



Stopped Filter



Direction Filter



Logical Rules

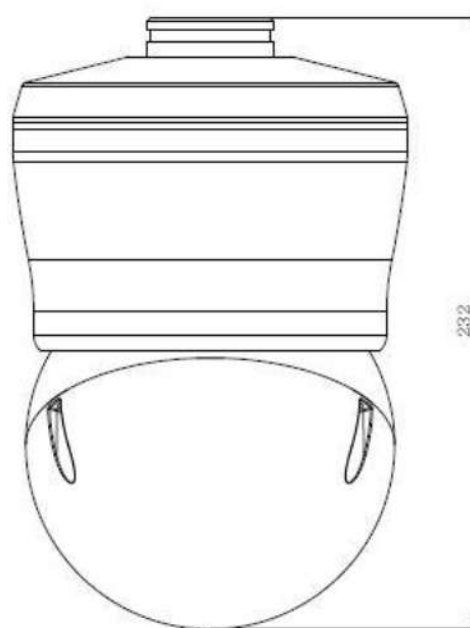
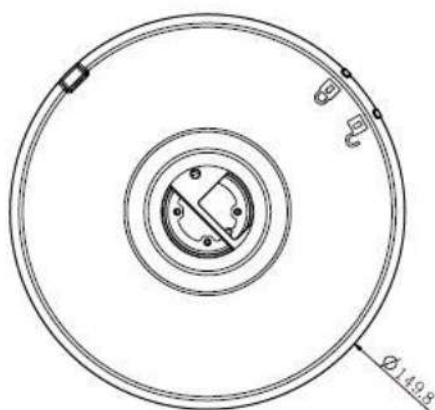


Abandoned Object Filter



Counting Lines

## DIMENSIONS



## ACCESSORIES



W-WMB-4500T



W-CMB-4500T