

Intelligent Video Analysis at Edge IP-30 Camera Series



THERMAL MINI BULLET IP CAMERA

IP-2T101BO-T56





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

- Compact size and light weight
- Array size: 320X240
- Indoor/Outdoor (IP66)
- 12 µm uncooled vanadium oxide microbolometer
- · Burnt-in text, video motion detection
- -40°C to 330°C(-40°F to 626°F) Detection
- Flexible input power options: DC or PoE
- Embedded VCA Technology video analytics

Application













Key features of WVMS



WVMS Professional - Monitoring Console



WVMS Video Content Analytics



WVMS Enterprise - Wall & Redundancy



WVMS License Plate Recognition



WVMS Facial Recognition Module



WVMS Mobile Application

Specification

CAMERA MODULE (Pixel Array)
Model | IP-2T101BO-T56

Model

Array Size (Resolution)	320 x 240			
Detection Type	Uncooled Vanadium Oxide Microbolometer			
Sensor Pixel Size	12 µm			
Spectral Response	7.8~14 µm			
Lens	4.0mm, Fl.0			
FoV	56° x 42°			
Smart Capture Technology	WaveCapture: Smart Advanced Wide Dynamic Capture for high details in challenging conditions			
Sensitivity (NETD)	65mK(Typical), Less than 100mK(max) @ 25°C			
Detectable Temperature Range	-40°C to 330°C(-40°F to 626°F)			
Temperature Accuracy	The greater of ±5°C or 5% between 5°C to 140°C scene			
	temperatures. Typical performance of ±10% between 140°C to			
	330°C scene temperatures.			
	Specified at nominal 25°C ambient operating temperature and nominal			
	measurement distance of 12 inches from blackbody. Temperature reported			
	is Center Spot temperature, which is an average of the center 36 pixels.			
VIDEO				
Video Compression	H.265, H.264, MJPEG			
Profile	H.264: MP/HP , H.265: MP			
Multiple Profile Streaming Performance	640x480/9fps + 640x480/9fps with H.264, H.265 + MJPEG			
Resolution	640x480, 320x240			
Frame Rate	Max. 9fps in all resolutions			
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			
Special Features	Wavestream: Smart compression Technology based on			
15/	Bitrate Control, Region of Interest			
Analogue Output	1 (Installation only) CVBS 1.0V p-p (75Ω), 4:3 aspect ratio			
EDGE STORAGE				
Storage	1x microSD / microSDHC / microSDXC (card not included)			

AUDIO			
Input	1 channel		
Output	1 channel		
Compression Format	G.711, AAC		
EVENT	7. 		
Event Trigger	Motion Alarm, DI Temperature Alarm(Above, Below, Slope Rate)		
Pre-Post Recording	Pre: 1~5 sec Post: 1~240 sec		
Event Notification	FTP, E-mail, Alarm-out, SD card		
Smart edge Analytics	WaveVCA: Intelligence built in camera Analytics		
NETWORK	- ()		
Ethernet Standard	10 / 100 Base-T		
IP	IPv4		
Protocol	TCP/IP, UDP, AutoIP, RTP(UDP/TCP), RTSP, NTP, HTTP, HTTPS, SSL, DNS, DDNS, DHCP, FTP, SMTP, ICMP, SNMPVI/v2/v3(MIB-2), ONVIF		
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication		
Plug In	ONVIF Profile S, CGI API		
GENERAL	1 Section and the Control of the Con		
Material	Aluminum Die-casting, White & Silver		
External I/O Terminals	1x Alarm In / 1x Alarm Oute		
Language on webpage	English		
Power Source	DC12V, PoE(IEEE 802.3af)		
Power Consumption	DC12V Max 8.7W, PoE Max 11.9W		
Operating Conditions	Humidity 10 ~ 90% RH (non-condensing) [DC12V / PoE] -40°C ~ 50°C (-40°F ~ 122°F)		
Approvals	FCC, CE, IP66		
Weight	0.65 kg		
Dimension (H x W x D)	76mm x 61mm x 208mm		





WaveVCA: Intelligence built-in Cameras Analytics

Basic features

an object

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

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





Dwell Filter

≒ Stopped Filter

























EVOKING TRUST

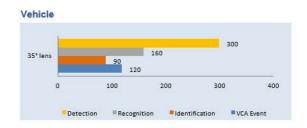
DETECTION RANGE

*The detection range is of maximum values.

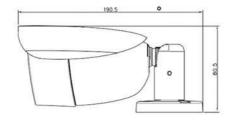
IP-2T001BO-T35

OBJECT	DETECTION	RECOGNITION	IDENTIFICATION	WVCA EVENT
PERSON	120	85	25 MAX.	60
VEHICLE	300	160	90 MAX.	120

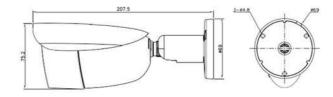




DIMENSIONS







ACCESSORIES



BJCO7