

Wavestore Vision Thermal Mini Bullet IP Camera

WV-CT-4F-A

- Indoor/Outdoor Application
- · Compact size and light weight
- 12 µm uncooled vanadium oxide microbolometer
- Array size: 320 x 240
- -40°C to 330°C (-40°F to 626°F) Detection
- Flexible input power options: DC or PoE
- Advanced Analytics capabilities included







TECHNICAL SPECIFICATION						
Camera Module (Pixel Array)						
Model No.	WV-CT-4F-A					
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, F1.0					
FoV	56° x 42°					
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 Centre Spot temperature, which is an average of the centre 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 Bitrate	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	SMART Bitrate Control, Region of Interest					
Analogue Output	1 (Installation only) CVBS 1.0V p p (75Ω), 4:3 aspect ratio					

TECHNICAL SPECIFICATION						
Audio						
Input	1 channel					
Output	1 channel					
Compression format	G.711, AAC					
Event						
Event Trigger	Motion Alarm, Digital Input 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					
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, SNMPv1/v2/v3(MIB 2), ONVIF					
Security	HTTPS(SSL), IP filtering, 802.1x, Digest Authentication					
Plug In	ONVIF Profile S, CGI API					
General						
Material	Aluminum Die casting, White & Silver					
External I/O Terminals	1 x Alarm In / 1 x Alarm Out					
Language on webpage	English, French, German, Italian & Spanish					
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 (1.433 lbs)					
Dimensions (H x W x D)	76mm x 61mm x 208mm (2.99" x 2.45" x 8.19")					
Edge Storage						
Storage	1x microSD / microSDHC / microSDXC (card not included). Max. Capacity: 256GB					



Video Analytics Features

Wavestore Analytics Engine with advanced tracking algorithm and rich library of detection behaviours

Detection Zones and Rules: Multi-segment Polygons and Lines

Intrusion (motion) Detection

Tamper Detection

Detection Behaviour: Enter, Exit, Appear, Disappear, Stop, Direction, Dwell Filter, Abandoned/Removed Object, Tailgating

Logical Rules extend standard rules to allow various behaviour combinations

3D Behaviour: Perspective, Size and Speed Filters

Object Classification: Configurable Max./Min. object sizes and Max./Min. speeds

High accuracy counting for people and vehicles, 20 counters in total

Meta Data, JSON format, Plain XML format

Analytics features







Intrusion Detection

Zones & lines

Detection









Appear Filter

Disappear Filter

Dwell Filter

Enter Filter









Exit Filter

Stopped Filter

Counting

Counting Lines



Tailgating







Filter

3D Calibration

Abandoned Object Filter

Removed Object Filter





Direction Filter

Logical Rules

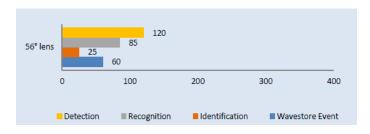
Detection Range

*The detection range is of maximum values.

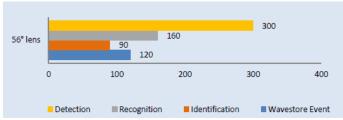
(Unit: metre)

WV-CT-4F-A						
Object	Detection	Recognition	Identification	Wavestore Event		
Person	120	85	25	Max. 60		
Vehicle	300	160	90	Max. 120		

Person



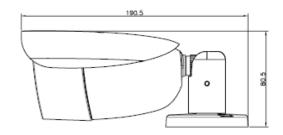
Vehicle



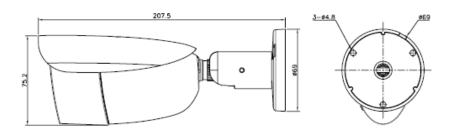


Dimensions

(Unit: mm)







Accessories



BP01 Pole Mount Adaptor



BCO01 Corner Mount Adaptor



BJC07 Junction Box