Mini Bullet Thermal IP Camera with Video Analyses

- 12 µm uncooled vanadium oxide microbolometer
- 206x156 Resolutions
- 9fps for global commercial applications
- Radiometric functionality
- Dual Audio transmission, burnt-in text / video motion detection
- 802.3af (PoE) simplified installation over a single network cable
- Integrated video analyses of VCA Technology
- Indoor/Outdoor IP66 Liquid Protection



more than standard

Spezifications

CAMERA				
Image Resolution		206 x 156		
Detection Type		Uncooled Vanadium Oxide Microbolometer		
Sensor Pixe	l Size	12 µm		
Spectral Res	sponse	7.8 ~14 μm		
Sensitivity (NETD)	Less than100mK		
Lens (FOV)		RTS651-A20: 6.8mm, F1.2, (FOV: 20°) RTS651-A36: 4.0mm, F1.2, (FOV: 36°)		
Detectable Temperature	Range	-40°C to 330°C (-40°F to 626°F)		
Accuracy According to Temperature Variation*		RTS651-A20	ROI at 5m ±1°C (16ft ±1.8°F) ROI at 10m ±3°C (33ft ±5.4°F)	
		RTS651-A36	ROI at 4m ±1°C (13ft ±1.8°F) ROI at 8m ±3°C (26ft ±5.4°F)	
VIDEO				
Video Compression		H.264 Baseline, Main, High profile(MPEG-4 Part 10/ AVC), MJPEG(Motion JPEG)		
Video Streaming		Dual Stream, Respective Configurable H.264: Controllable frame rate, image resolution, bandwidth limitation (CVBR/CBR) MJPEG: Controllable frame rate, image resolution, JPEG quality		
Reso-	4:3 mode	QVGA(320x240), VGA(640x480), NTSC(720x480), PAL(720x576), SVGA(800x600), XGA(1024x768)		
lutions (1)	16:9 mode	320x180, 480x270, 640x360, 800x450, 960x540, 1120x630, 1280x720		
Frame Rate		Max. 9fps in all resolutions		
Image Orientation		Flip / Mirror / Corridor Mode(-90o,+90o)		
Motion Detection		Max. 8 zones with respective setting detection sensitivity and minimum object size		
Smart Bitrate Control		Supported for First/Second Stream		
Text Overlay		Free positioning of display for time/ data/ name (name up to 48 signs)		
Privacy Mask		4 configurable regions		

Audio			
Audio Streaming	Two-way		
Audio Compression	G.711		
Audio Interface	Line Input / output terminal		
NETWORK			
Ethernet Standard/IP	10 / 100 Base-T / IPv4, IPv6		
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMP v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLS, SRTP, RTMP, IEEE802.1X		
Users connection	Live viewing for up to 10 clients		
Security	HTTPS(SSL), SRTP, IP Filtering, Multi-level access with password protection		
GENERAL			
I/O Terminal 1x Alarm In - max 50mA@5VDC, TTL 2x Alarm Out - max 50mA@24VDC, TTL			
Application Programming Interface	Software Development Kit (SDK) available ONVIF compliant		
Event Metadata Streaming RTSP/RTP	Video Motion Detection (MD), Video Content Analytics(VCA)		
ONVIF	Version: 2.41 (Support Profile S and G)		
Event Sources	Input(DI), Output(DO), Video Motion Detection, Tamper Detection, Video Content Analytics(VCA), Network Loss/Detect, Network Setting Change, Time (Recurrence/Schedule)		
Event Actions Notification service via TCP/IP, HTTP, multicas email text messages with snapshot, output (DC switching, snapshot upload on external FTP se			
Approvals	FCC, CE, KC, IP66, UL, RoHs		
ELETRICAL			
Power Source	DC 12V, PoE (IEEE 802.3af)		
Consumption	Max. 12W @ DC 12V		

1) Please Note:

The image resolutions are digital up-scaled from Microbolometer sensor source 206(H) $x\,156(V).$

ENVIROMENT		VCA DETECT	LICENSE (Included as Standard)	
Temperature Humidity	DC12V/PoE: -40°C ~ 50°C (-40°F ~ 122°F) Up to 85% rel. humidity non-condensing	3D VCA Calibration	Camera Scene Settings will be configured with innovative graphical controls and tools to optimize VCA output	
MECHANICAL Material	Aluminum Die-Casting	Object Classification	Design of different Object classes to include in VCA Alarm Rules	
Color Dimension	White 61(w) x 76(H) x 208(D) mm 2.4"x3.1"x8.2"	Included VCA Detection Filters	Direction, Speed, Dwell, Stop, Object Classification	
Weight (Approx)	0.65kg (1.5lb)	VIDEO CONTE	ENT ANALYSIS (Option extension License)	
VIDEO CONTENT High	ANALYSIS (Included as Standard) Advanced tracking algorithm and low false alarm	Additional Functions	VCAcountIP, VCAadvancedIP, VCAprofessionalIP	
Performance Easy to Use	rate Intuitive web browser interface	VCA Detection Filter	Objekt: Enter, Exit, Appear, Disappear, Stop, Direction, Dwell, Speed, Unauthorized Access, Counting Line, Color Filter, Object Classification	
Detection Zones and Rules On-screen Display	Up to 40 zones (multi-segment polygons and lines) 60 VCA filter rules in total Real-time display of tracking data and events via activeX plug-in in IE browser		 Up to 20 Onscreen Counter Displays Counting-Line for accuracy people and vehicle counting with local database and reporting service VCA calibration via 3D tools for right object size detection Several definable object class to include into the detection rules for the VCA alarm 	
Burnt in Annotation	Allows the VCA annotation to be burnt into the raw video stream for displaying on third party application	VCA Functions		
Tamper Detection Recognize camera tampering via VCA detection (defocusing, lens covering, camera moving)			 10 colors in total to distinguish objects by color People tracking mode to tracks individuals separate among overlapped multiple people Heatmap Report shows relative crowd density of the 2 	
A black body has been used for the temperature measurement test with the 10°C variation 0°Cto 100°C).			hour period (criterion: midnight) Extension of alarm rules using logical operators	

Detection Range

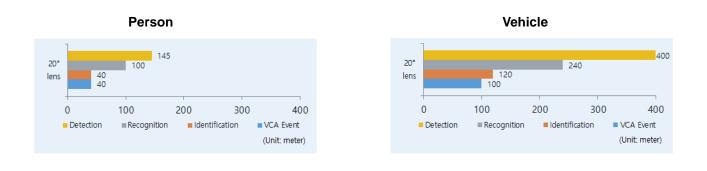
Please Note!: Released distance are based on theoretical calculation. In practical application reached distance can diverse depending environment conditions.

Logical Rules

(AND, OR..) for the VCA detection filters of

created zones / lines

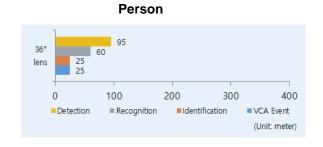
Unit: meter	RTS651-A20				
Lens	Object	Detection	Recognition	Identification	VCA Event
20°- 6.8mm	Person	145	100	40	40
	Vehicle	400	240	120	100

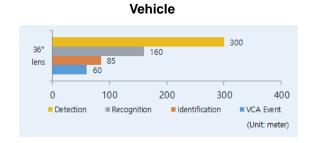


... more than standard



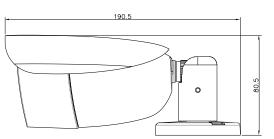
Unit: meter	RTS651-A36				
Lens	Object	Detection	Recognition	Identification	VCA Event
36°- 4mm	Person	95	60	25	25
	Vehicle	300	160	85	60

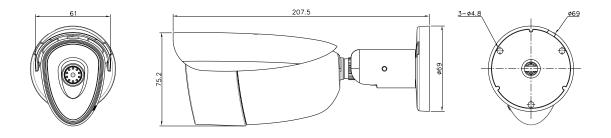




Dimensions

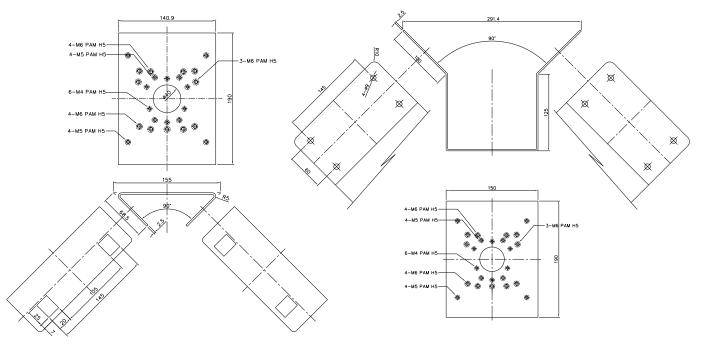
(Unit: mm)





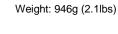


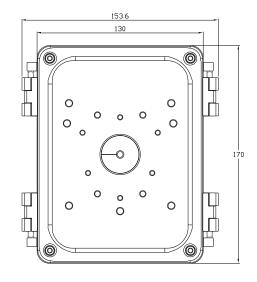
Accessories

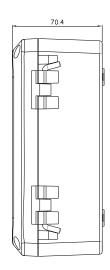


Pole Mount Adaptor Model: PMA-U100 Weight: 2,28Kg (5.0lbs)

Corner Mount Adaptor Model: CMA-U100







Junction Box Model: JBK-U100 Weight: 1.02Kg (2.2lbs)