








The BUMA Modular



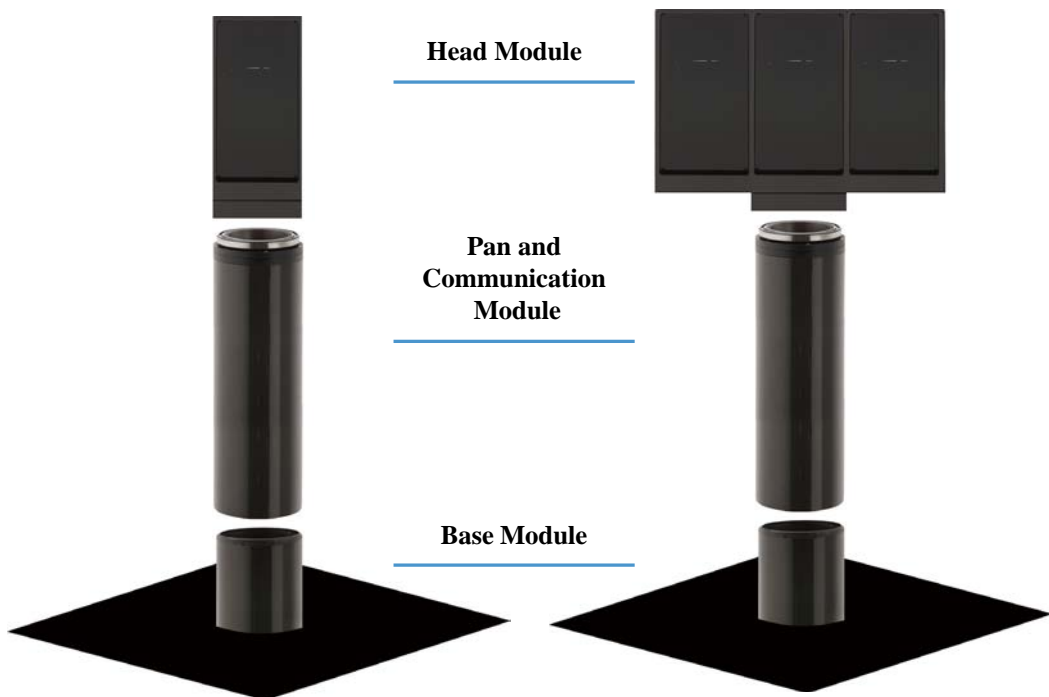
- 
Maritime Mount
- 
Smart Technology
- 
External Vehicle Mount
- 
Insert Compatible
- 
Smart Perimeter System Mount
- 
Portable
- 
Outdoor

Available Housing Models:

- BM-Single Frame Housing
- BM-Triple Frame Housing

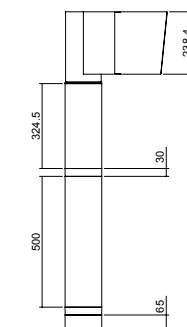
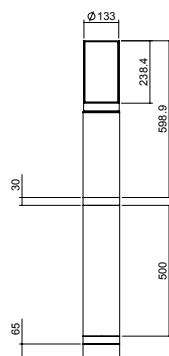
Available Frame Inserts:

- SD Camera
- HD Camera
- UHD Camera
- Low Light Camera
- EMCCD Camera
- Thermal Imaging
- Audio Broadcast
- Short Range Night Vision
- Long Range Night Vision
- Area Illuminator

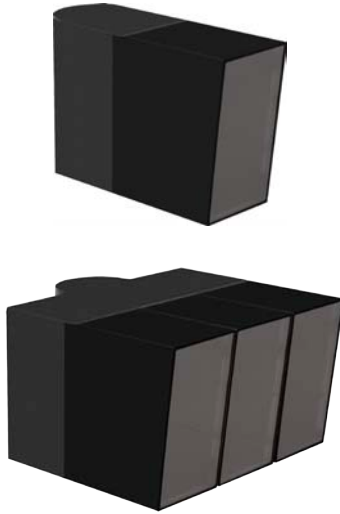


mm

Dimensions are in millimeters



The BUMA Modular Housing



Description

To offer our customers a truly customized surveillance solution we present the BUMA Modular series. The patent pending, multiple core design features a single (BM-1) or triple (BM-3) frame housing that optimally attaches to our REKKS Smart Perimeter System for a sturdy and independently powered pole mount. Customers are then able to choose insert modules, depending on the capacity of the selected model, to connect to the housing bracket. In the event a customer wishes to modify or add to the system's capabilities, the insert modules can easily be exchanged without having to replace an entire surveillance system.

Suggested Applications

- Bases, Outposts and Checkpoints
- Border and Port Facilities
- Construction Sites and Pipelines
- Educational and Research Facilities
- Energy Infrastructures and Drill Sites
- Governmental Facilities
- Long Range Surveillance
- Nighttime Surveillance
- Remote and Undeveloped Areas
- Traffic and Transportation Infrastructures

System Features



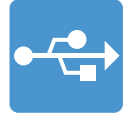
Continuous
360° Pan



Renewable
Energy
Compatible



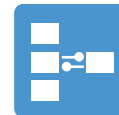
Quick
Install



Plug and
Play



Modular
Freedom



Future
Proof

Compatible Housing and Mounts



Outdoor



Portable



Smart
Perimeter
System Mount



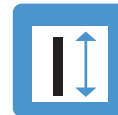
External
Vehicle
Mount



Maritime
Mount



Wall
Mount



Pole Height
Extension

Materials and Finish



Mixed
Media



Camouflage



Housing
Color



Glass
Color

Certifications



ONVIF



CE
Certified



FCC
Certified

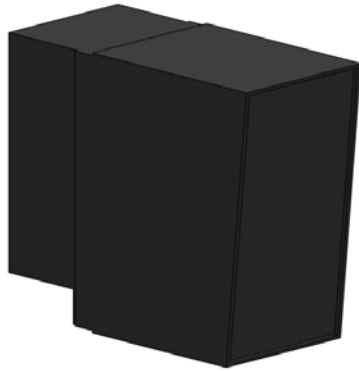


IP Rating



IK Rating

BM-Camera Inserts



Description

Several camera inserts are available for both the single and triple frame housing, including all of our BUMA SD and HD cores, our all new UHD core, an EMCCD camera, and a thermal imaging camera.

The BUMA Modular SD offers a cost effective, yet impressively capable outdoor surveillance solution, ideal for large area and long-range surveillance, and is complete with day & night functions for continued operation in most lighting conditions. For projects requiring advanced imaging capabilities, our BUMA HD camera delivers full HD resolution of 1920x1080p at 30 frames per second. Our most advanced camera and latest addition, our UHD camera, provides true 4k surveillance imaging with a resolution of 3840x2160 and is best suited applications requiring precise imaging. Even at high zoom levels the BUMA camera maintains image integrity and delivers crisp images at all light levels. The BUMA HD and UHD are best suited for large surveillance fields where a high, level of detail is required and are easily paired with our off-grid power pole system.

For low light or nighttime applications, our Low Light, EMCCD and thermal imaging cameras are valuable tools. EMCCD technology delivers monochrome video with exceptional image quality, including outstanding target recognition and identification capabilities. Thermal imaging cameras offer image penetration through smoke, dust, and water vapor in addition to providing clear images at near or mid-range distances in full darkness. Our thermal camera has a 384 x 288 pixel uncooled detector and uses an image detail enhancement (IDE) algorithm to enhance low contrast targets in high dynamic range scenes. Please refer to the BUMA Modular Housing page for all complete housing and mount options.

Insert Features



Standard & High Definition



Ultra High Definition



EMCCD



Thermal Imaging Camera



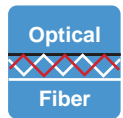
Image Stabilization



External Optics



PTZ Capability



Integrated Optical Fiber

Compatible Housing and Mounts



BM Housing

Materials and Finish



Mixed Media



Camouflage



Housing Color



Glass Color

Certifications



ONVIF



CE Certified



FCC Certified



IP Rating



IK Rating

BM-SD Insert



	BM-SD18	BM-SD26	BM-SD40
Lens			
Image sensor	1/4 Ex-view HAD CCD progressive scan	1/4-type Ex-view HAD CCD	1/4-type super HAD CCD II
Angle view	48° wide to 2.8° tele	54.2° wide to 2.2° tele	60.0° wide to 1.6° tele
Lens	18x optical zoom f=4.1mm wide to 73.8mm tele, f1.4 to f3.0	26x optical zoom f = 3.5 to 91mm (F1.6 to F3.8)	40x optical zoom f=3.06mm wide to 122.4mm tele, F1.6 to F4.6
Minimum illumination	0.7 lux at 1/50 s (f1.4, 50 IRE) 0.01 lux at 1/4 s ICR - on	0.7 lux (typical)	0.6 lux at 1/60 s 0.1 lux at 1/4 s ICR - on
Digital zoom	12x (216x with optical zoom)	12x (312x with optical zoom)	12x (480x with optical zoom)
Shutter	1/1 s ~ 1/10,000 s, 22 steps	1/1 s ~ 1/10,000 s, 22 steps	1/1 s ~ 1/10,000 s, 22 steps
TV lines	550 TVL	530 TVL	670 TVL
Video			
Compression	H.264 dual stream	H.264 dual stream	H.264 dual stream
Bit rate	16k to 1Mbps controllable	16k to 1Mbps controllable	16k to 1Mbps controllable
Video resolution	NTSC CIF (352x240), QCIF (176x120), full D1 (720x480) PAL CIF (352x288), QCIF (176x144), full D1 (720x576)	NTSC CIF (352x240), QCIF (176x120), full D1 (720x480) PAL CIF (352x288), QCIF (176x144), full D1 (720x576)	NTSC CIF (352x240), QCIF (176x120), full D1 (720x480) PAL CIF (352x288), QCIF (176x144), full D1 (720x576)
Frame rate	25 fps at full D1 (PAL) , 30 fps at full D1 (NTSC)	25 fps at full D1 (PAL) , 30 fps at full D1 (NTSC)	25 fps at full D1 (PAL) , 30 fps at full D1 (NTSC)
Image enhancement	auto white balance, AGC, backlight compensation, auto exposure	auto white balance, AGC, backlight compensation, auto exposure, 2D/3D noise reduction, auto WDR	auto white balance, AGC, backlight compensation, auto exposure, 2D/3D noise reduction, auto WDR, digital image stabilizer
Preset points	128	128	128
Audio			
Audio input	one channel MIC in or line input unbalanced 1.4 Vp-p	one channel MIC in or line input unbalanced 1.4 Vp-p	one channel MIC in or line input unbalanced 1.4 Vp-p
Audio output	one channel, RCA interface, linear output	one channel, RCA interface, linear output	one channel, RCA interface, linear output
Audio compression	G.726, G.711, ADPCM	G.726, G.711, ADPCM	G.726, G.711, ADPCM
Alarm System Integration			
Alarm input	one channel on/off input NO/NC	one channel on/off input NO/NC	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A	one channel on/off output 120 VAC 1A / 24 VDC 1A	one channel on/off output 120 VAC 1A / 24 VDC 1A
Serial port	RS485 transparent protocol	RS485 transparent protocol	RS485 transparent protocol
Recording	motion trigger, alarm trigger, manual or schedule	motion trigger, alarm trigger, manual or schedule	motion trigger, alarm trigger, manual or schedule
Network and Storage			
Ethernet port	10/100M Base-t self-adapting Ethernet port	10/100M Base-t self-adapting Ethernet port	10/100M Base-t self-adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 9.0 or above	Internet Explorer 9.0 or above	Internet Explorer 9.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)	802.11b/g supports WEP, WPA, WPA2 (optional)	802.11b/g supports WEP, WPA, WPA2 (optional)
SD storage	up to 32GB	up to 32GB	up to 32GB
Operating Conditions			
Operating temp.	-10° C ~ +60° C	-10° C ~ +60° C	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C	-20° C ~ +80° C	-20° C ~ +80° C
Operating humidity	10% ~ 85%	10% ~ 85%	10% ~ 85%
Weight and Dimensions			
Input voltage	12 VDC	12 VDC	12 VDC
Power consumption	15W	15W	15W
Dimensions (cm)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)
Weight	BM-1: 8 Kg BM-3: 17 Kg	BM-1: 8 Kg BM-3: 17 Kg	BM-1: 8 Kg BM-3: 17 Kg

BM-HD Insert



	BM-HD12	BM-HD20	BM-HD30
Lens			
Image sensor	1/4-Type CMOS	1/2.8" Exmor CMOS	1/2.8" Exmor CMOS
Angle view	53.4° (wide end) to 2.9° (tele end)	55.4° (wide end) to 2.9° (tele end)	54.1° (wide end) to 2.9° (tele end)
Lens	12x optical zoom f=3.7mm wide to 44.4mm tele, f1.6 to f2.5	20x optical zoom f=4.7mm wide to 94.0mm tele, f1.6 to f3.5	30x optical zoom f=4.6 mm wide to 138.0mm tele, f1.8 to f4.7
Minimum illumination	0.3 lux (f1.6, ICR off) / 0.06 lux (f1.6, ICR on)	0.5 lux (f1.6, ICR off) / 0.095 lux (f1.6 ICR on)	0.5 lux (f1.6, ICR off) / 0.095 lux (f1.6, ICR – on)
Digital zoom	12x (144x with optical zoom)	12x (240x with optical zoom)	12x (360x with optical zoom)
Shutter	1/1 s ~ 1/10,000 s, 22 steps	1/1 s ~ 1/10,000 s, 22 steps	1/2 s ~ 1/10,000 s, 21 steps
Effective pixels	1.43 megapixels	3 megapixels	3 megapixels

	BM-HD12	BM-HD20	BM-HD30
Video			
Compression	H.264 / M-JPEG support dual stream/ MPEG4/ ASP/ MxPEG	H.264 / M-JPEG support dual stream/ MPEG4/ ASP/ MxPEG	H.264 / M-JPEG support dual stream/ MPEG4/ ASP/ MxPEG
Bit rate	32Kbps to 8Mbps	32Kbps to 8Mbps	32Kbps to 8Mbps
Video resolution	1920 (H) x 1080 (V) / 1280 (H) x 720 (V) / 720 (H) x 576 (V) / 352 (H) x 288 (V)	1920 (H) x 1080 (V) / 1280 (H) x 720 (V) / 720 (H) x 480 (V) / 720 (H) x 576 (V)	1920 (H) x 1080 (V) / 1280 (H) x 720 (V) / 720 (H) x 576 (V) / 352 (H) x 288 (V)
Signal system	1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/50, 720p/29.97, 720p/25	1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/50, 720p/29.97, 720p/25	1080p/29.97, 1080p/25, 1080i/59.94, 1080i/50, 720p/50, 720p/29.97, 720p/25
Frame rate	25 fps at full D1 (PAL), 30 fps at full D1 (NTSC)	25 fps at full D1 (PAL), 30 fps at full D1 (NTSC)	25 fps at full D1 (PAL), 30 fps at full D1 (NTSC)
Image enhancement	auto white balance, AGC, backlight compensation, auto exposure, WDR, tour recording, guard tour, auto track, iris control, on-screen display	auto white balance, AGC, backlight compensation, auto exposure, WDR, tour recording, guard tour, auto track, iris control, on-screen display	auto white balance, AGC, backlight compensation, auto exposure, WDR, tour recording, guard tour, auto track, iris control, on-screen display
Preset points	128	128	128

	BM-HD12	BM-HD20	BM-HD30
Audio			
Audio input	one channel MIC in or line input unbalanced 1.4 Vp-p	one channel MIC in or line input unbalanced 1.4 Vp-p	one channel MIC in or line input unbalanced 1.4 Vp-p
Audio output	one channel, RCA interface, linear output	one channel, RCA interface, linear output	one channel, RCA interface, linear output
Audio compression	G.726, G.711, ADPCM	G.726, G.711, ADPCM	G.726, G.711, ADPCM

	BM-HD12	BM-HD20	BM-HD30
Alarm System Integration			
Alarm input	one channel on/off input NO/NC	one channel on/off input NO/NC	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A	one channel on/off output 120 VAC 1A / 24 VDC 1A	one channel on/off output 120 VAC 1A / 24 VDC 1A
Serial port	RS485 transparent protocol	RS485 transparent protocol	RS485 transparent protocol
Recording	motion trigger, alarm trigger, manual or schedule	motion trigger, alarm trigger, manual or schedule	motion trigger, alarm trigger, manual or schedule

	BM-HD12	BM-HD20	BM-HD30
Network and Storage			
Ethernet port	10/100M Base-t self-adapting Ethernet port	10/100M Base-t self-adapting Ethernet port	10/100M Base-t self-adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 9.0 or above	Internet Explorer 9.0 or above	Internet Explorer 9.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)	802.11b/g supports WEP, WPA, WPA2 (optional)	802.11b/g supports WEP, WPA, WPA2 (optional)
SD storage	up to 32GB	up to 32GB	up to 32GB

	BM-HD12	BM-HD20	BM-HD30
Operating Conditions			
Operating temp.	-10° C ~ +60° C	-10° C ~ +60° C	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C	-20° C ~ +80° C	-20° C ~ +80° C
Operating humidity	10% ~ 85%	10% ~ 85%	10% ~ 85%

	BM-HD12	BM-HD20	BM-HD30
Weight and Dimensions			
Input voltage	12 VDC	12 VDC	12 VDC
Power consumption	15W	15W	15W
Dimensions (cm)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)
Weight	BM-1: 8 Kg BM-3: 17 Kg	BM-1: 8 Kg BM-3: 17 Kg	BM-1: 8 Kg BM-3: 17 Kg

BM-UHD Insert



Lens

Image sensor	Global Shutter CMOS
Sensor Size	Super 35 (22.53 x 11.88mm)
Resolution	4096x2160 or 3840x2160 (4x full HD)
Dynamic Range	12 stops
Minimum illumination	0,3 lux

Video

Compression	H.264 / M_JPEG support dual stream/ MPEG4/ ASP/ MxPEG
Bit rate	32Kbps to 8Mbps
Video output	4x 3G/HD-SDI (4x BNC)
Quad Link Output Formats	10-bit 4:4:4 quad link (UHD and 4K:23.98, 24, 25, 29.97, 30) 10-bit 4:2:2 or RAW quad link (UHD: 23.98, 24, 25, 29.97, 30, 50, 59.94, 60), (4K: UHD and 4K:23.98, 24, 25, 29.97, 30, 47.95, 48, 50, 59.94, 60) progressive scan
Frame rate	NTSC / PAL
Image enhancement	manual and auto white balance, 1-Shot auto, matrix adjustment and saturation correction, backlight compensation, auto exposure, WDR, integrated IR-cut filter and OLPF, iris control, on-screen display
Preset points	128
Sensitivity Adjustment	ISO control; up to 4x digital gain

Audio

Audio input	one channel MIC in or line input unbalanced 1.4 Vp-p
Audio output	one channel, RCA interface, linear output
Audio compression	G.726, G.711, ADPCM

Alarm System Integration

Alarm input	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A
Serial port	RS485 transparent protocol
Recording	motion trigger, alarm trigger, manual or schedule

Network and Storage

Ethernet port	10/100M Base-t self-adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 9.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)
SD storage	up to 32GB

Operating Conditions

Operating temp.	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C
Operating humidity	10% ~ 85%

Weight and Dimensions

Input voltage	12 VDC
Power consumption	15W
Dimensions (cm)	20 x 14.1 x 26.7 (W x L x H)
Weight	5 Kg
Colors	white, black, camouflage wrap

BM-Low Light Insert



BUMA-LL

BUMA-EMCCD

Core

Sensor type	1/2" Exview HAD CCD II	1/2" Frame Interline Transfer (FIT) impactron
Active pixel	752 x 582	658 x 496
Pixel size	8.6µm x 8.3µm	10µm x 10µm
Active area	6.47mm x 6.83mm	6.58mm x 4.96mm
Dynamic range	>60dB	55dB
Spectral response	350-1100nm	350-1100nm
Minimum illumination	< 1µlux	< 200µlux
Resolution	480 TV lines	450 TV lines
Cooling	active, no fan	active, no fan
Antiblooming protection	-	yes (>500:1)
Exposure time	-	500µs to 1/50s (CCIR) or 1/60 (EIA)
Frame rate	25Hz (CCIR), 30Hz (EIA/NTSC)	25Hz (CCIR), 30Hz (EIA)
Readout mode	progressive scan	progressive scan

Alarm System Integration

Alarm input	one channel on/off input NO/NC	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A	one channel on/off output 120 VAC 1A / 24 VDC 1A
Serial port	RS485 transparent protocol	RS485 transparent protocol
Recording	manual or schedule	manual or schedule

Network and Storage

Ethernet port	10/100M Base-t self- adapting Ethernet port	10/100M Base-t self- adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 9.0 or above	Internet Explorer 9.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)	802.11b/g supports WEP, WPA, WPA2 (optional)

Operating Conditions

Operating temp.	-10° C ~ +60° C	-10° C ~ +60° C
Storage temp.	-20° C ~ +80° C	-20° C ~ +80° C
Operating humidity	10% ~ 85%	10% ~ 85%

Weight and Dimensions

Input voltage	12 VDC	12 VDC
Power consumption	14W	15W
Dimensions (cm)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)
Weight	BM-1: 8 Kg BM-3: 17 Kg	BM-1: 8 Kg BM-3: 17 Kg
Colors	white, black, camouflage wrap	white, black, camouflage wrap

BM-Thermal Insert



Core

Sensor Type	Uncooled
Material	Polysilicon
Thermal response time	7ms
Resolution	384x288
Pixel size	35umx35um
Spectral range	8-14um
Fill factor	>80%
Brightness, Gain Control	Auto / Manual
NETD	<100mk@30° C
Start-up time	≤25s (25° C normal operating)

Alarm System Integration

Alarm input	one channel on/off input NO/NC
Alarm output	one channel on/off output 120 VAC 1A / 24 VDC 1A
Serial port	RS485 transparent protocol
Recording	manual or schedule

Network and Storage

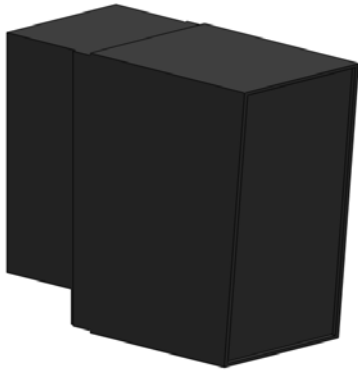
Ethernet port	10/100M Base-t self-adapting Ethernet port
Protocol	TCP/IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Web browser	Internet Explorer 9.0 or above
Wireless protocols	802.11b/g supports WEP, WPA, WPA2 (optional)

Operating Conditions

Operating temperature	-10° C ~ +60° C
Storage temperature	-20° C ~ +80° C
Operating humidity	10% ~ 85%

Weight and Dimensions

Input voltage	12 VDC
Power consumption	4.5W
Dimensions (cm)	BM-1: 39 x 39.9 x 26.8 (W x L x H) BM-3: 39 x 13.3 x 26.8 (W x L x H)
Weight	BM-1: 8 Kg BM-3: 17 Kg



Description

To be used alone or in conjunction with the BUMA Modular Camera Inserts, we offer several other insert options for both the single and triple frame housings. To further enhance nighttime surveillance capabilities, we offer IR and laser illuminator modules. For low-light applications, power to the IR and illuminator modules is activated by a built-in light sensor. They are optimally paired with our standard camera core modules for a complete visual surveillance solution.

A speaker module provides a way to remotely deliver announcements to the surveillance field. This module can also be used to provide sirens, alerts or signals to notify bystanders of impending threats or dangers. The speaker has an efficient, compact design, yet offers premium sound quality with heat-resistant capabilities. This ensures continued operations and message delivery through volatile, high-heat environments.

Another valuable insert option for the BUMA Modular is a spotlight for ground illumination. We offer a spotlight module that can be activated when ground or area illumination is needed. The compact light features highly efficient LED lights that provide up to 900 lumens at over 90 lumens/watt, with a 120-degree beam pattern.

Insert Features



Audio /
Alarm
Broadcast



Short
Range
Night Vision



Long Range
Night Vision



Area
Illuminator

Compatible Housing and Mounts



BM
Housing

Materials and Finish



Mixed
Media



Camouflage



Housing
Color



Glass
Color

Certifications



ONVIF



CE
Certified



FCC
Certified



IP Rating



IK Rating

BM-Additional Inserts



Audio Broadcast

Volume: 43.9 dBM

Effective range: 1 Km minimum

Power: 12 VDC

Power handling: 25 Watt

Output: voice, Siren.

Short Range Night Vision

Wavelength: 850nm

Horizontal field-of-view: 45 degrees

Vertical field-of-view: 45 degrees

Distance: up to 100 m

Long Range Night Vision

Rang: 3.2 Km Min

Wavelength: 830 nm

Output Power (max.): 600 mW

Illuminator Divergence: 4°

Laser Class: 1 EyeSafe

Environmental Rating: IP-67 (waterproof)

Working Ranges: Human detection 1500m, Vehicle detection 3000m

Area Illumination

Power source: 12 VDC

Body colour: black

Power consumption: 20w

Lumens output: 1200lm

Beam angle: 120 degrees

Light colour: 4500k