VMGB-410

2MP Deep Learning AI LightGuard 4.3x Zoom Bullet with IR LED 85m, WDR 150dB



- 2 Megapixel, 4.3x, Zoom Bullet
- Deep Learning AI, LightGuard
- 1/1.8" Sensor, IR LED 85m, Extreme WDR (150 dB)
- Color Min. Illumination 0.0005 lux
- Frame Rate 60fps
- Smart Motion Detection, Smart Intrusion Protection, Object Metadata
- Counting
- Automatic License Plate Recognition
- Weatherproof (IP68), Vandal proof (IK10)

Specifications

Product Profile

Product Type	Zoom Bullet
Product Application	Automatic License Plate Recognition
Application Environment	Outdoor
Maximum Resolution	2MP
Description	Wide Angle Camera Built-in Deep learning-based ALPR with working for car speed <60km/h. (Available for cars in Taiwan)
Image Sensor	Progressive Scan CMOS
Sensor Size	1/1.8 "
Day / Night	Yes
Low Light Sensitivity	Extreme
LightGuard	Yes
Minimum Illumination	Color: 0.0005 lux at F1.2 (AGC on); B/W: 0 lux (IR LED on)
Mechanical IR Cut Filter	Yes
IR LED	Adaptive IR LED (850 nm)
IR Working Distance	85m
Electronic Shutter	1-1/100000 second (auto mode)
Number of Traffic Lanes	2

Lens

Focal Length	Zoom, f2.8-12mm
Aperture	F1.2-F2.5
Zoom Ratio	4.3x optical zoom
Iris	P-Iris
Focus	Auto focus
Horizontal Viewing Angle	114.5° - 41.8°
Vertical Viewing Angle	59.3° - 23.6°

Video

Compression	H.265 Adaptive Stream, H.264 (Baseline/ Main/ High profile), MJPEG
Maximum Frame Rate vs. Resolution	60 fps at 1920 x 1080 30 fps at 1920 x 1080 60 fps at 1280 x 960 60 fps at 1280 x 720 30 fps at 1280 x 720 30 fps at 704 x 480 30 fps at 640 x 480
Multi-Streaming	Simultaneous 5 streams
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Extreme WDR (150 dB)
Image Enhancement	White Balance, Saturation, Brightness, Contrast, Sharpness, Automatic gain control (AGC), Backlight compensation (BLC), Defogging, Digital Image Stabilizer (DIS, EIS)
Privacy Mask	Yes
Built-in Analytics	Smart Motion Detection (People Detection, Vehicle Detection), People Detection, Vehicle Detection, Smart Intrusion Protection, Object Metadata, Tampering Detection, People Line Crossing Detection, People Enter Area Detection, People Exit Area Detection, Vehicle Line Crossing Detection, Vehicle Enter Area Detection, Vehicle Exit Area Detection, Vehicle Flow Counting, License Plate Detection, Automatic License Plate Recognition, Road Traffic Monitoring

Analytics

Camera Object Metadata	Vehicle type, Vehicle color, Vehicle brand, Vehicle driving direction
Deep Learning AI	2.0

Network

Network Protocol & Service	IPv4/v6, TCP, UDP, PPPoE, HTTP, HTTPS, DNS, DDNS, NTP, RTP, RTSP, RTCP, SMTP, FTP, SFTP, IGMP, ICMP, ARP, UPnP, Bonjour, QoS, SNMP, TLS 1.2, IEEE 802.1X
Ethernet Port	1 x Ethernet (10/100/1000 Base-T), RJ-45 connector
Security	IP address filtering, HTTPS encryption, Password protected user level, IEEE 802.1X network access control

Detection Range

Observation Range	Detection: 45m-111.8m Recognition: 9m-60m Identification: 4.5m-30m

Event

Event Trigger	Video motion detection, External device through digital input, Intelligent event detection, Disk full, Disk not found
Event Response	Send E-mail Notification, Save video to storage, Upload snapshot to FTP server, Activate external device through digital output

System

Language	Multi-Language, English, Traditional Chinese

Integration

ONVIF Compliant	Yes, Profile S, Profile G, Profile T
Supported Countries	Taiwan

Storage

Blocklist/Allowlist	up to 10000 records

Interface

Analog Video Output	1 x CVBS, Composite output, for installation only
Digital Input/Output	2/2
Operating Button	Reset Button

Installation

Vehicle Capture Speed	Front-Installation: 120 km/h Side-Installation: 80 km/h

General

Power Source	DC 12V, PoE Class 4 (IEEE802.3at)
Power Consumption	14.28 W (DC), 16.8 W (PoE)
Dimensions	(Ø x L): 144mm x 347mm (5.7" x 13.7")
Environmental Casing	Weatherproof (IP68), Vandal proof (IK10)
Corrosion Protection	Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.
Heater	Yes
Starting Temperature	-35°C ~ 60°C (-31°F ~ 140°F)
Operating Temperature	-35°C ~ 60°C (-31°F ~ 140°F)
Real-time Clock (RTC)	Yes
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

Related Products

Mounting Accessories - Camera Mount

R707-00004		Junction Box for Bullet Cameras (for VMGB-410, A427)

Note: Some mounting accessories may need additional accessories for installation. Please check www.acti.com/mountingselector for more information.

Power Supply Accessories - Power Adapter

PPBX-0015		Power Adapter AC 100~240V (12V/2A Output), with universal connectors for R21CF-xx

Power Supply Accessories - PoE Injector

PPOE-0107		High PoE Injector IEEE 802.3at compliant, AC 100~240V, with universal connectors (for A416, A418, B913, B923, B934, Q450, Q75, VMGB-60X, Z37, Z71, Z952)

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- For product and mounting accessory information, visit: www.acti.com/products and www.acti.com/mountingselector
- All specifications are subject to change without notice.