A29

2MP f2.8mm Fixed Box with WDR 150dB



- 2 Megapixel, f2.8mm, Fixed Box
- Extreme WDR (150 dB)
- Frame Rate 120fps, Frame Rate 60fps
- DORI (38.6 / 15.6 / 7.7 / 3.9m)

Specifications

Product Profile

Product Type	Fixed Box
Product Application	Face, People and Car Detection
Application Environment	Indoor/Outdoor
Maximum Resolution	2MP
Image Sensor	Progressive Scan CMOS
Sensor Size	1/2.7 "
Effective Pixels	1945(H) X 1097(V) (2.13 MP)
Day / Night	Yes
Low Light Sensitivity	Extreme
Minimum Illumination	B/W: 0.001 lux
Mechanical IR Cut Filter	Yes
Electronic Shutter	1/5-1/64000 second (manual mode); 1/5-1/64000 second (auto mode)
Horizontal Resolution (TV Lines)	1000 TVL
S/N Ratio	75 dB

Lens

Focal Length	Fixed focal, f2.8mm
Aperture	F2.0
Iris	Fixed iris
Focus	Auto back focus
Lens Mount	CS Mount (interchangeable lens for DC-Iris and P-Iris)
Horizontal Viewing Angle	108.6°
Vertical Viewing Angle	63.6°

Video

Compression	H.265 Adaptive Stream, H.264 (Main profile), MJPEG
Maximum Frame Rate vs. Resolution	120 fps at 1920 x 1080 (High Frame Mode) 60 fps at 1920 x 1080 (High Frame Mode) 30 fps at 1920 x 1080 30 fps at 1280 x 960 120 fps at 1280 x 720 (High Frame Mode) 60 fps at 1280 x 720 (High Frame Mode) 30 fps at 1280 x 720 30 fps at 800 x 600 30 fps at 720 x 480 30 fps at 640 x 480 30 fps at 480 x 360 30 fps at 360 x 270
High Frame Mode	Support
Bit Rate Mode	Constant, Variable
Multi-Streaming	Simultaneous triple streams based on configurations of video resolution, compression format, and frame rate
Digital Noise Reduction	2D + 3D DNR
Wide Dynamic Range	Extreme WDR (150 dB)
Image Orientation	Flip, Mirror, Rotation (Corridor mode) (90º, 180º, 270º)
Image Enhancement	White Balance, Brightness, Contrast, Saturation, Sharpness, Backlight compensation (BLC), Strong Light Suppression
Privacy Mask	4 configurable regions
Text Overlay	Yes
On-Screen Graphics (Picture Overlay)	Yes
Built-in Analytics	Deep Learning : Face Detection, People Detection, Vehicle Detection, Tampering Detection, People Line Crossing Detection, People Enter Area Detection, People Exit Area Detection, People Loitering Detection

Audio

Audio Type	2-way, Mic-in, Line-in, Line-out
Audio Compression	8 kHz, Mono, G.711 u-law

Network

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

Detection Range

Observation Range	Detection: 38.6m Observation: 15.6m Recognition: 7.7m Identification: 3.9m

Event

Event Trigger	Video motion detection (3 regions), External device through digital input, Sound detection, Intelligent event detection, Video streams loss
Event Response	Notify control center, Change camera settings, Command other devices, E-mail notification with snapshots, Play the audio file, Push notification to mobile device, Save video to storage, Upload video to NVR server, Upload video or snapshot to FTP server, Activate external device through digital output

System

System Monitor	CPU loading, memory usage and network statistics via API
Watchdog	Support

Integration

Unified Solution	Fully compatible with ACTi software
GPS Position	Manual setting
Edge Recording	Support (integration with NVR by ONVIF Profile G or proprietary protocol)*
ONVIF Compliant	Profile S, Profile G, Profile Q, Profile T, Profile M
Web Browser	IE 11, Google Chrome, Microsoft Edge, Apple Safari
Auto Firmware Upgrade	Yes

Interface

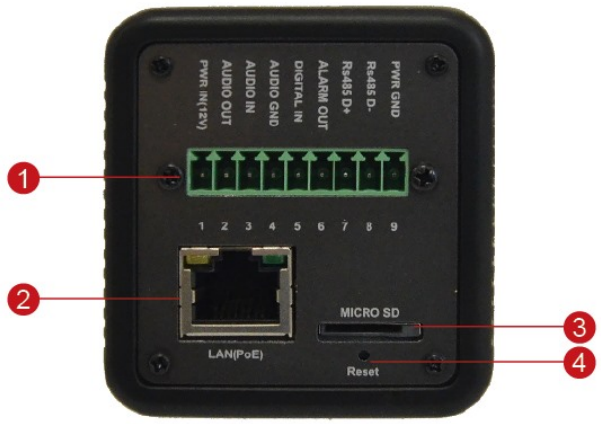
Serial Port	1 x RS-485
Audio Interface	1/1, Terminal block
Digital Input/Output	1/1 (Terminal block)
Operating Button	Reset Button

General

Power Source	DC 12V, PoE Class 3 (IEEE802.3af)
Power Consumption	4.92 W (DC), 5.76 W (PoE)
Weight	370g (0.82lb)
Dimensions	(W x H x D): 62mm x 58mm x 128.49mm (2.44" x 2.28" x 5.059")
Environmental Casing	Optional housing (IP66-IP68)
Explosion Protection	Optional Explosion-Proof Enclosure
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)
Operating Humidity	10% - 85% RH, non-condensing
Approvals	CE Class B, FCC Class B
Color	White
Real-time Clock (RTC)	Yes
Warranty	3 Year(s). For extended warranty offering, see http://www.acti.com/support/warranty

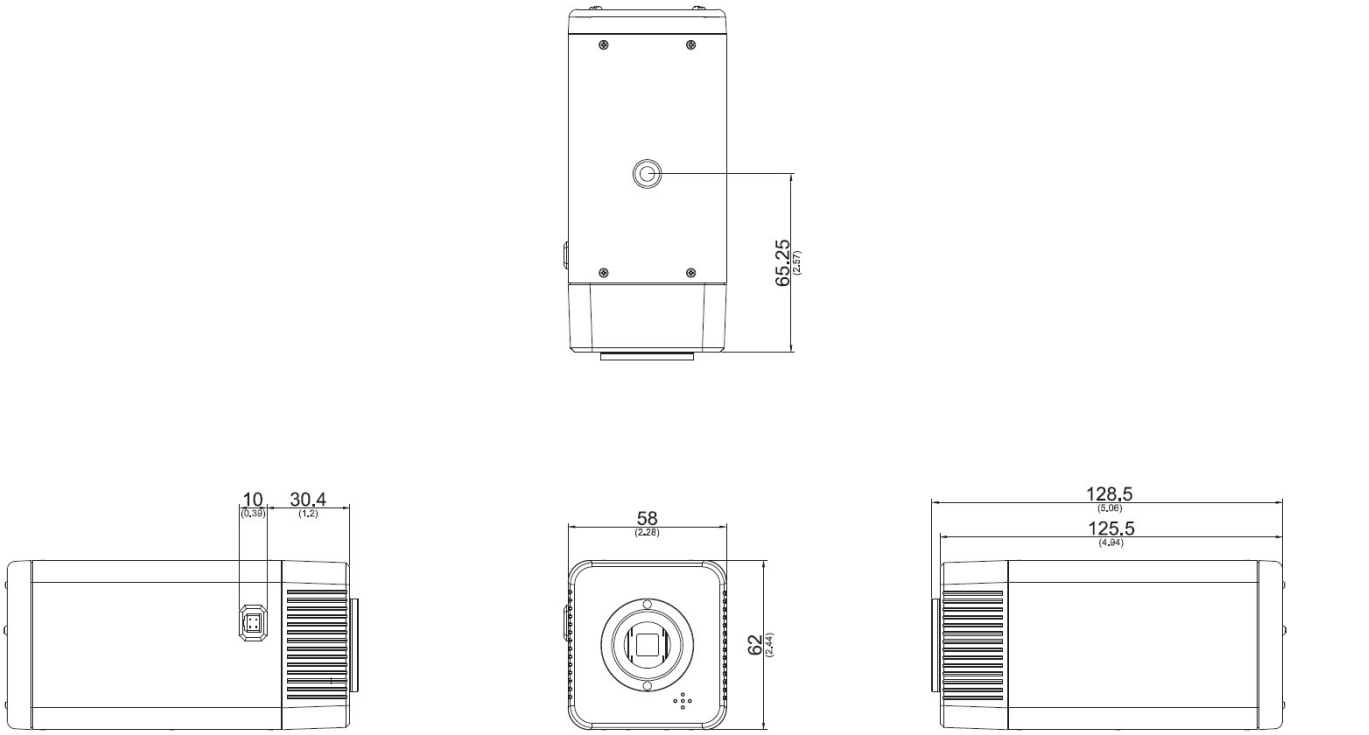
* Edge Recording function is integrated with NVR 3 Corporate / NVR 3 Business / INR / GNR series.

Photo Indication



1. Input and Output Connector
   - DC 12V Power Input
   - Audio Input / Output
   - Digital Input / Output
   - Serial Port
2. Ethernet Port
3. Memory Card Slot
4. Reset Button

Dimension Diagram



Unit: mm [inch]

Related Products

Mounting Accessories - Camera Mount

PMAX-0402		Corner Mount
PMAX-0503		Pole Mount (for PMAX-0102, PMAX-0312, PMAX-0313, PMAX-0314, PMAX-0702, PMAX-1106, PMAX-1107), supports 5.25" to 8.5" Poles
PMAX-1105		Bracket for Indoor Box Cameras (for B2x)
PMAX-1106		Bracket for Outdoor Box Cameras (KCM-5211E, KCM-5511, KCM-5611, Box Cameras with Outdoor Housing)

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

Enclosures - Box Camera Housing

PMAX-0200		Outdoor Housing with Heater and Fan (110V)
PMAX-0202		Outdoor Housing
PMAX-0208		Explosion Proof Housing with Heater, Fan (AC 110V~220V) and Bracket
PMAX-0210		Stainless Steel Housing with Heater, Fan (AC 110V~220V) and Bracket
PMAX-0228		PoE Explosion Proof Housing with Heater, Fan and Bracket
PMAX-0233		PoE Explosion Proof Housing with Heater and Fan
PMAX-0234		POE Stainless Steel Housing with Heater, IR and Fan (for A2x, B2x, E2x)
PMAX-0235		PoE Explosion Proof Housing with Heater and Fan (for E2X, B2X, A2X)
PMAX-0236		PoE Stainless Steel Housing with Heater and Fan (for E2X, B2X, A2X)

Enclosures - PTZ & Positioning Housing

PMAX-0221		POE Explosion-proof Stainless Steel SUS316 Positioning Housing, with Heater, Fan and IR
PMAX-0222		POE Explosion-proof Stainless Steel SUS316 Positioning Housing, with Fan and Heater
PMAX-0239		Explosion Proof Positioning Housing, with Fan, Heater and wiper (for E2X, B2X, A2X)

PMAX-0240		
PMAX-0241		
PMAX-0242		

Lenses - Vari-focal Lens

PLEN-2205		Vari-focal IR-corrected f2.8-12mm, F1.4, P-Iris CS mount lens
PLEN-2213		Vari-focal, f5.0-50mm F1.4 CS-mount DC-iris lens

Power Supply Accessories - Power Adapter

PPBX-0011		Power Adapter AC 100~240V, with universal connectors for all DC12V powered devices

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)

Network & Storage Peripherals - Data Switch

PPSW-0102		PLANET FGSD-1011HP 8-Port 802.3at PoE Switch (PoE Budget 120W)
PPSW-0105		PLANET GS-4210-8P2C 8-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 120W)
PPSW-1101		PLANET GS-4210-24PL4C 24-Port Gigabit 802.3at Managed PoE Switch (PoE Budget 440W)
PPSW-3100		PLANET FGSW-1816HPS 16-Port 802.3at PoE Switch (PoE Budget 220W)

Audio Devices - Microphone

PMIC-0100		Active Microphone Omnidirectional for all Cameras with Line-in Audio
PMIC-0201		Passive Microphone Omnidirectional for all Cameras with Mic-In Audio using Cable Wire or Terminal Connector, 2m cable

Illuminators - IR LED Illuminator

PLED-0200		SPINLUX (SL-A2IRXX10-24CL) IR Illuminator 10° Angle with 120 m approx. range
PLED-0201		SPINLUX (SL-A2IRXX25-24CL) IR Illuminator 25° Angle with 50 m approx. range