

# Q450

## 8MP (2x4MP) 2-Sensor 180° Bullet with IR LED 20m, WDR 135dB



- 8 Megapixel, f2.8mm, 2-Sensor 180° Bullet
- 1/1.8" Sensor, IR LED 20m, Extreme WDR (135 dB)
- Color Min. Illumination 0.003 lux
- DORI (106.7 / 43 / 21.3 / 10.7m)
- Weatherproof (IP66), Vandal proof (IK10)

## Specifications

### Product Profile

|                          |                                          |
|--------------------------|------------------------------------------|
| Product Type             | 2-Sensor 180° Bullet                     |
| Application Environment  | Outdoor                                  |
| Maximum Resolution       | 8MP                                      |
| Image Sensor             | Progressive Scan CMOS (4MP x2)           |
| Sensor Size              | 1/1.8 "                                  |
| Effective Pixels         | 2704(H) X 1568(V) (4 MP)                 |
| Day / Night              | Yes                                      |
| Low Light Sensitivity    | Extreme                                  |
| Minimum Illumination     | Color: 0.003 lux; B/W: 0 lux (IR LED on) |
| Mechanical IR Cut Filter | Yes                                      |
| IR LED                   | Adaptive IR LED                          |
| IR Working Distance      | 20m                                      |
| Electronic Shutter       | 1-1/10000 second (auto mode)             |
| S/N Ratio                | 75 dB                                    |

## Lens

|                          |                     |
|--------------------------|---------------------|
| Number of Lenses         | 2 Lenses            |
| Focal Length             | Fixed focal, f2.8mm |
| Aperture                 | F1.6                |
| Focus                    | Fixed focus         |
| Horizontal Viewing Angle | 182°                |
| Vertical Viewing Angle   | 57.4°               |

## Video

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| Compression                       | H.265 Adaptive Stream, H.264, MJPEG                             |
| Maximum Frame Rate vs. Resolution | 30 fps at 5120 x 1440 30 fps at 2560 x 720 30 fps at 1280 x 360 |
| Multi-Streaming                   | Simultaneous quad streams                                       |
| Digital Noise Reduction           | 2D + 3D DNR                                                     |
| Wide Dynamic Range                | Extreme WDR (135 dB)                                            |
| Video Stitching                   | Seamless Video Stitching Minimum Stitching Distance: 450 cm     |
| Built-in Analytics                | Tampering Detection                                             |

## Network

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

## Detection Range

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Observation Range | Detection: 106.7m Observation: 43m Recognition: 21.3m Identification: 10.7m |
|-------------------|-----------------------------------------------------------------------------|

## Event

|                |                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------|
| Event Trigger  | Video motion detection, Tampering detection, External device through digital input,                                             |
| Event Response | Send E-mail Notification, Save video to storage, Upload snapshot to FTP server, Activate external device through digital output |

## System

|          |         |
|----------|---------|
| Watchdog | Support |
|----------|---------|

## Integration

|                 |                                      |
|-----------------|--------------------------------------|
| ONVIF Compliant | Yes, Profile S, Profile G, Profile T |
| Web Browser     | Google Chrome, Firefox               |

## Interface

|                      |                      |
|----------------------|----------------------|
| Digital Input/Output | 2/1 (Terminal block) |
| Operating Button     | Reset Button         |

## General

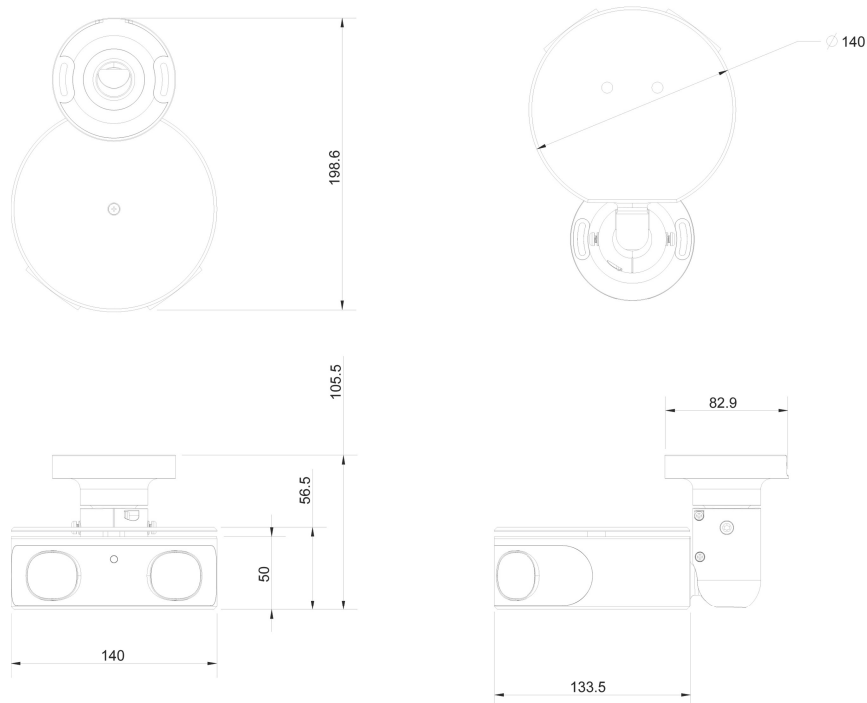
|              |                           |
|--------------|---------------------------|
| Power Source | AC 24V, PoE (IEEE802.3af) |
|--------------|---------------------------|

|                       |                                                                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Power Consumption     | 12.95 W (PoE, IR on), 15.86 W (AC, IR on)                                                                                              |
| Dimensions            | (Ø x L): 140mm x 105.5mm (5.51" x 4.15")                                                                                               |
| Environmental Casing  | Weatherproof (IP66), Vandal proof metal casing (IK10)                                                                                  |
| Corrosion Protection  | Optional for project request. Chassis corrosion resistance at the seashore approximately 3 years.                                      |
| Operating Temperature | -40°C ~ 55°C (-40°F ~ 131°F)                                                                                                           |
| Operating Humidity    | 10% - 90% RH, non-condensing                                                                                                           |
| Approvals             | CE Class A, FCC Class A, IP66, IK10 (metal casing)                                                                                     |
| Material              | Metal Plastic                                                                                                                          |
| Warranty              | 3 Year(s). For extended warranty offering, see <a href="http://www.acti.com/support/warranty">http://www.acti.com/support/warranty</a> |

## Photo Indication



## Dimension Diagram



Unit: mm [inch]

# Related Products

## Mounting Accessories - Camera Mount

|           |                                                                                   |                                                                      |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|
| PMAX-0534 |  | Pole Mount with Junction Box (for Q450) supports 3.25" to 7.0" Poles |
| PMAX-0728 |  | Junction Box (for Q450, A426)                                        |

**Note:** Some mounting accessories may need additional accessories for installation. Please check [www.acti.com/mountingselector](http://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) |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

## Audio Devices - Microphone

|           |                                                                                   |                                                                      |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|
| PMIC-0100 |  | Active Microphone Omnidirectional for all Cameras with Line-in Audio |
|-----------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|