# ACV-IPFC30-2M 2.0

## 2MP Full-color Fixed-focal Bullet Network Camera

**acvil** ®

**2.0 Series** | ACV-IPFC30-2M 2.0

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in warm lights, max. illumination distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Built-in Mic
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power supply
- IP67 protection

| 2Mp | Smart Codec | Full-color | WDR | IVS | IP67 |
|-----|-------------|------------|-----|-----|------|

## Series Overview

With upgraded H.265 encoding technology, Acvil 2.0 series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest full-color technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying to the standards of IP67.

## Functions

### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Acvil smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

### Full-color

With high-performance sensor and large aperture lens, Acvil Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

### WDR

With advanced Wide Dynamic Range (WDR) technology, Acvil network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

### IVS

With advanced video algorithm, Acvil IVS technology supports intelligent functions, such as tripwire and intrusion.

### Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## Technical Specification

### Camera

| | |
|---|---|
| Image Sensor | 1/2.8" 2Megapixel progressive CMOS |
| Max. Resolution | 1920 (H) × 1080 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Minimum Illumination | 0.0017 Lux@F1.0 |
| S/N Ratio | > 56 dB |
| Illumination Distance | 30 m (98.4 ft) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 1 (Warm light) |
| Pan/Tilt/Rotation Range | Pan: 0°–360°<br>Tilt: 0°–90°<br>Rotation: 0°–360° |

### Lens

| | |
|---|---|
| Lens Type | Fixed-focal |
| Mount Type | φ14 |
| Focal Length | 2.8 mm<br>3.6 mm |
| Max. Aperture | 2.8 mm: F1.0<br>3.6 mm: F1.0 |
| Field of View | 2.8 mm: 107° (Horizontal) × 55° (Vertical) × 127° (Diagonal)<br>3.6 mm: 91° (Horizontal) × 47° (Vertical) × 109° (Diagonal) |
| Iris Type | Fixed |
| Close Focus Distance | 2.8 mm: 0.9 m (3.0 ft)<br>3.6 mm: 1.3 m (4.3 ft) |

| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
|---|---|---|---|---|---|
| | 2.8mm | 38.6m (126.6 ft) | 15.4m (50.5 ft) | 7.7 m (25.3 ft) | 3.9 m (12.8 ft) |
| | 3.6mm | 49.7m (163.1 ft) | 65.3m (108.6 ft) | 32.5m (54.5 ft) | 18.0m (27.2 ft) |

### Smart event

| | |
|---|---|
| General IVS Analytics | Tripwire; intrusion |

### Video

| | |
|---|---|
| Video Compression | H.265; H.264; H.264B; MJPEG (only supported by the sub stream) |
| Smart Codec | Smart H.265+/ Smart H.264+ |
| Video Frame Rate | Main stream:<br>1920 × 1080 (1 fps-25/30 fps)<br>Sub stream:<br>704 × 576 (1 fps-25 fps)<br>704 × 480 (1 fps-30 fps) |
| Stream Capability | 2 streams |

| | |
|---|---|
| Resolution | 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 32 kbps–6144 kbps<br>H.265: 12 kbps–6144 kbps |
| Day/Night | Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| White Balance | Auto/natural/street lamp/outdoor/manual/regional custom |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest(RoI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Image Rotation | 0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower) |
| Mirror | Yes |
| Privacy Masking | 4 areas |

### Audio

| | |
|---|---|
| Built-in MIC | Yes |
| Audio Compression | G.711A; G.711Mu; G.726; AAC |

### Alarm

| | |
|---|---|
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception |

### Network

| | |
|---|---|
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| Protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP; Bonjour |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec |
| User/Host | 20 (Total bandwidth: 72 M.) |
| Storage | Acvil Cloud; FTP; Micro SD card (support max. 256 G); NAS; SFTP |
| Browser | IE<br>Chrome<br>Firefox |
| Management Software | Smart PSS; DSS; DMSS |
| Mobile Phone | IOS; Android |

## Power

| | |
|---|---|
| Power Supply | 12V DC/PoE (802.3af) |
| Power Consumption | < 6.0W |

## Environment

| | |
|---|---|
| Operating Conditions | -40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH |
| Storage Temperature | -40°C to +60°C (-40°F to +140°F) |
| Protection Grade | IP67 |

## Structure

| | |
|---|---|
| Casing | metal |
| Dimensions | 166.2 mm × Φ70 mm (6.5" × Φ2.8") |
| Net Weight | 0.473 kg (1.0 lb) |
| Gross Weight | 0.574 kg (1.3 lb) |

## Certification

| | |
|---|---|
| Certifications | CE-LVD: EN62368-1<br>CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU<br>FCC: 47 CFR FCC Part 15, Subpart B |

**Dimensions (mm[inch])**