

## Features

- H.265+/H.265 dual-stream video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 12 channels IP camera inputs, each channel up to 6MP; Max 48Mbps Incoming Bandwidth
- Perimeter Protection and SMD Plus
- Up to 2 channels video stream (analog channel ) human face detection
- IoT & POS functionalities



## Specification

|                      |   |
|----------------------|---|
| System               |   |
| Main Processor       | Embedded Processor  |
| Operating System     | Embedded LINUX  |
| Perimeter Protection |   |
| Perimeter protection | 1.AI by DVR: Detection alarm for human and vehicle. Filter misinformation such as leaves and light. 2.Function configuration: Set at most 10 rules such as area intrusion and tripwire intrusion. 3.Performance: 2 channels   |
| Live View            | 1. Rule box inspection: Configure the rule box and object inspection box. 2.Smart panel: Display object classification (human, vehicle), event types, triggering time, image matting and object types. Attribute is not supported. 3. Counting: Count people in Peopletotal. Count motor vehicles in Vehicle. Support exporting of associated event playback before and after 10 seconds. |
| Playback             | 1. Search conditions: According to channels, time, event types and target types. 2.Functions: Support search of associated event playback or snapshot before and after 10 seconds. 3. Snapshot capacity: 500,000  |
| Face Detection       |   |
| Performance          | 1. UP to 12 face pictures/sec processing (modeling and comparing). 2. Up to 2 channels video stream (analog channel ) human face detection. 3. Up to 300,000 face detection events in total.  |

|                      |   |
|----------------------|---|
| Database Application | Each database can be applied to video channels independently.   |
| Trigger Events       | Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.  |
| SMD Plus             |   |
| SMD Plus             | 1. AI by DVR: Motion detection alarm for human and vehicle. Filter misinformation such as leaves and light. 2. Performance: 8 channels , AI by DVR          |
| Preview              | Preview: Configure and inspect detection box  |
| Playback             | 1.Playback: Search videos through channels, time and target types.<br>2.Functions: Support search of associated event playback before and after 10 seconds. |
| Video and Audio      |   |
| Analog Camera Input  | 8 Channel, BNC  |
| HDCVI Camera         | 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps  |
| AHD Camera           | 5MP, 4MP, 1080P@25/30, 720P@25/30fps  |
| TVI Camera           | 5MP, 4MP, 1080P@25/30, 720P@25/30fps  |
| CVBS Camera          | PAL/NTSC  |
| IP Camera Input      | 8+4 Channel, each channel up to 6MP   |
| Audio In/Out         | 1/1, RCA  |
| Two-way Talk         | Reuse audio in/out, RCA   |
| Recording            |   |
| Compression          | H.265+/H.265/H.264+/H.264   |
| Resolution           | 5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF   |
| Record Rate          | Main stream: All channel 5M-N(1fps-10fps); 4M-N/1080P(1fps-15fps); 1080N/720P/960H/ D1/CIF (1fps-25/30fps) Sub stream: D1/CIF(1fps-15fps)                   |
| Bit Rate             | 32Kbps-6144Kbps Per Channel   |
| Record Mode          | Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop  |
| Record Interval      | 1 - 60 min (default: 60 min), Pre-record: 1 sec-30 sec, Post-record: 10 sec-300 sec   |
| Audio Compression    | AAC(only for the 1st channel), G.711A, G.711U, PCM  |
| Audio Sample Rate    | 8KHz, 16 bit Per Channel  |
| Audio Bit Rate       | 64Kbps Per Channel  |
| Display              |   |
| Interface            | 1 HDMI ,1 VGA   |
| Resolution           | HDMI: 1920×1080, 1280×1024, 1280×720<br>VGA: 1920×1080, 1280×1024, 1280×720   |
| Multi-screen Display | When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16  |
| OSD                  | Camera title, Time, Video loss, Camera lock, Motion detection, Recording  |

## Network

|                  |   |
|------------------|---|
| Interface        | 1 RJ-45 Port (100M)   |
| Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports IP camera, DVR, NVS, etc.) |
| Max. User Access | 128 users   |
| Smart Phone      | iPhone, iPad, Android   |
| Interoperability | ONVIF 16.12, CGI Conformant   |

## Video Detection and Alarm

|                     |   |
|---------------------|---|
| Trigger Events      | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips  |
| Video Detection     | Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis  |
| Alarm input         | N/A   |
| Relay Output        | N/A   |
| Playback and Backup |   |
| Playback            | 1/4/9   |
| Search Mode         | Time /Date, Alarm, MD and Exact Search (accurate to second)   |
| Playback Function   | Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, Digital Zoom |
| Backup Mode         | USB Device/Network  |

## Storage

|              |                                  |
|--------------|----------------------------------|
| Internal HDD | 1 SATA Port, up to 10TB capacity |
| eSATA        | N/A                              |

## Auxiliary Interface

|       |                         |
|-------|-------------------------|
| USB   | 2 USB 2.0               |
| RS232 | N/A                     |
| RS485 | 1 Port, for PTZ Control |

## Electrical

|                                 |           |
|---------------------------------|-----------|
| Power Supply                    | DC 12V/2A |
| Power Consumption (Without HDD) | <10W      |

## Construction

|                          |  |
|--------------------------|--|
| Dimensions               | Mini 1U, 325mm×255mm×55mm (12.8" x 10" x 2.2") |
| Net Weight (without HDD) | 1.2kg (2.6lb)                                  |
| Gross Weight             | 1.9kg (4.2lb)                                  |
| Installation             | Desktop installation                           |

## Environmental

Operating Conditions -10°C to +55°C (+14°F to +131°F), 10%-90% RH

Storage Conditions -20°C to +70°C (-4°F to +158°F) , 0-90% RH

## Third-party Support

Third-party Support Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more