

# 2MP AHD HA-DVR-2116-L

- H.265 video compression
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 18 channels IP camera inputs, each channel up to 6MP; Max 72Mbps Incoming Bandwidth
- Long transmission distance over coax cable
- Supports 1 SATA HDD, up to 10TB



## AHD/HQA/CVI/CVBS/IP



## SYSTEM OVERVIEW

With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K.

The Lite Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and reducing the Total Cost of Ownership (TCO).

## FUNCTIONS

### H.265 Video Compression

Newly added H.265 video compression ensures the same image quality with only half bitrate and storage compared to H.264.

### AHD/HQA/CVI/CVBS/IP Auto-detect

The DVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

### 6MP Resolution

The DVR supports up to 6MP HD resolution (2880 x 1920) IPC input for recording, live viewing.

### Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

### Long Distance Transmission

The DVR system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

### Smart Search

This function helps you get more motion detect video during a short time through drawing a region when playback. It is very useful when an emergency occurs.

### Perfect Image Quality

High performance chip provides perfect image quality with better color reproduction.

### P2P

Monitor at anytime and anywhere. Easily and conveniently manage the device.

## Technical Specification

### System

|                  |                    |
|------------------|--------------------|
| Main Processor   | Embedded Processor |
| Operating System | Embedded LINUX     |

### Video and Audio

|                     |                             |
|---------------------|-----------------------------|
| Analog Camera Input | 16 Channel                  |
| HD Camera           | 1080P@25/30, 720P@25/30fps  |
| CVBS Camera         | PAL/NTSC                    |
| IP Camera Input     | 16+2, each channel upto 6MP |
| Audio In/Out        | 1/1, RCA                    |
| Two-way Talk        | Reuse audio in/out, RCA     |

### Recording

|                   |                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------|
| Video Compression | H.265 / H.264                                                                                                      |
| Resolution        | 1080N, 720P, 960H, D1, CIF                                                                                         |
| Record Rate       | Main Stream:<br>1080N/720P/960H/D1/CIF (1~25/30fps)<br>Sub stream:CIF (1~15fps)                                    |
| Video Bit Rate    | 32Kbps ~ 4096Kbps 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 ~ 30 sec, Post-record: 10 ~ 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           | 1920×1080, 1280×1024, 1280×720                                                                  |
| Multi-screen Display | When IP extension mode not enabled :1/4/8/9/16<br>When IP extension mode enabled :1/4/8/9/16/25 |
| 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, 3G/4G, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, P2P |
| Max. User Access | 128 users                                                                                                      |
| Smart Phone      | iPhone, iPad, Android                                                                                          |
| Interoperability | ONVIF 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          | 1/4/9/16                                                                                                                                                              |
| 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 |
|--------------|----------------------------------|

### Auxiliary Interface

|       |                         |
|-------|-------------------------|
| USB   | 2 USB 2.0               |
| RS485 | 1 Port, for PTZ Control |

### Electrical

|                                 |            |
|---------------------------------|------------|
| Power Supply                    | DC12V/1.5A |
| Power Consumption (without HDD) | <10W       |

### Constraction

|                          |                               |
|--------------------------|-------------------------------|
| Dimensions               | 260×236×48mm(10.2"×9.3"×1.9") |
| Net Weight (without HDD) | 1.0 kg (2.2lb)                |
| Gross Weight             | 1.7kg (3.7lb)                 |
| Installation             | Desktop installation          |

### Environmental

|                      |                                            |
|----------------------|--------------------------------------------|
| Operating Conditions | -10°C ~ +45°C (+14°F ~ +113°F), 10~ 90% RH |
| Storage Conditions   | -20°C ~ +70°C (-4°F ~ +158°F) , 0~ 90% RH  |

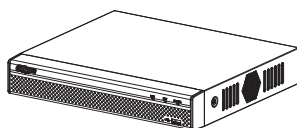
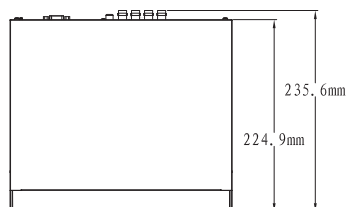
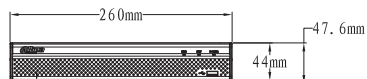
### Certifications

|                |               |
|----------------|---------------|
| Certifications | BIS Certified |
|----------------|---------------|

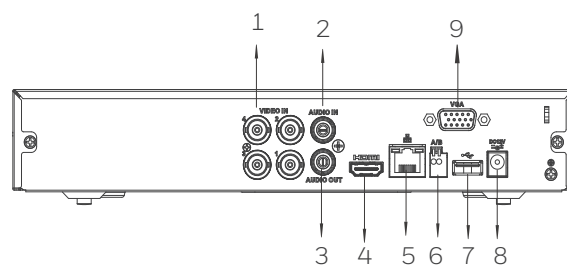
## Ordering Information

| Type           | Part Number   | Description                  |
|----------------|---------------|------------------------------|
| 16 Channel DVR | HA-DVR-2116-L | 16ch, 2MP DVR, 1 SATA, H.265 |

## Dimensions (mm)



## Rear Panel



|   |                          |   |                    |
|---|--------------------------|---|--------------------|
| 1 | VIDEO IN                 | 6 | RS485 Interface    |
| 2 | AUDIO IN, RCA Connector  | 7 | USB Interface      |
| 3 | AUDIO OUT, RCA Connector | 8 | DC 12V Power Input |
| 4 | HDMI Interface           | 9 | VGA Interface      |
| 5 | Network Interface        |   |                    |

### For more information,

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