



# AHD-1016



## ONVIF 2.3 H.264 Digital Video Recorder

USB Mouse Control with GUI Display

### FEATURES

#### High Definition iDVR three in one

- ❖ DVR/HVR/NVR, Multi-input; Supporting 4/8ch analogue video encode, supporting analogue +network HD video multi-input, supporting pure network video input.

#### Step on the Internet

- ❖ Remote control easily & conveniently without any complicated setting.

#### Compression algorithm ideal

- ❖ Compression algorithm upgraded to H.264 High Profile, more advanced video compression technique makes the code stream lowered at least 30%.

#### Playback Quality

- ❖ All real-time Synchronized decoding playback.

#### Main and Sub Stream

- ❖ Support main stream and extra stream encode synchronously.
- ❖ Main stream is for local storage, extra stream is for network real-time transmission, to easily solve the bottleneck problem of bandwidth.

#### Display

- ❖ Supporting TV, HDMI VGA, HDMI simultaneous video output, VGA, HDMI support 1080P HDMI video output

#### Operation interface

- ❖ Similarly CMS operating interface design, to let you experience easily and conveniently.

#### Network

- ❖ Powerful net service(support DHCP, PPPOE, FTP, DNS, DDNS, NTP, UPNP, EMAIL, IP authority, IP search, Alarm center, etc.), complete enclosure(WEB, CMS, SDK), to easily achieve interconnection.

#### Browsers

- ❖ Compatible with Internet Explorer, Mozilla Firefox, Google Chrome, Safari.

#### Remote Access

- ❖ With our own DDNS Service (ARSP), Remote operation step on the internet, Easy to use. Also support 3322, dyndns, oray, myq-see, etc.

#### Device port

- ❖ Supporting 1/2 SATA port, connecting with 1/2 3TB HDD, supporting 2\*USB2.0 port, supporting USB mouse, backup, record, and upgrade, etc.

#### Differentiation

- ❖ Starting-up displays replace freely, more than 20 languages, more than 10 \*GUI displays, 10\* remote, dozens of front panel for choice, easily achieve differentiated products.

#### Others

- ❖ Complete circuit protection, unique triple monitoring functions to ensure device never crash; Unique black box technology to finish the whole monitoring and lower maintaining cost largely.
- ❖ System auto recovery after power failure

# SPECIFICATIONS

|                     |                                |                                                                                                                                                                 |
|---------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model               |                                | AHD-1016                                                                                                                                                        |
| System              | Main processor                 | Industrial grade embedded micro controller chipset 3521                                                                                                         |
|                     | Operating system               | Embedded LINUX operating system                                                                                                                                 |
|                     | System resource                | Multi-channel real-time recording synchronously, multi-channel real-time playback, Multi-channel multi-user network operation, USB back up.                     |
| Display             | Operation interface            | 16 bit real color GUI interface support mouse operation                                                                                                         |
|                     | Multilingual Language          | YES, 28 kinds of language                                                                                                                                       |
|                     | Display screen                 | 1/4/8/9 screen (set pure local input mode for example, others are decided by channel mode)                                                                      |
| Video               | Video Standard                 | PAL/NTSC                                                                                                                                                        |
|                     | Image encode                   | H.264(High Profile); JPEG snapshot                                                                                                                              |
|                     | Monitor quality                | Monitoring: D1 (not supporting) ; VGA, HDMI: HDMI (supporting 1920*1080, 1280*720,1440*900,1280*1024, 1024*768、800*600)                                         |
|                     | Playback quality               | AHD-L/960H/D1/HD1/CIF                                                                                                                                           |
|                     | Encode capability              | 16*AHD-L/960H @12fps / 16*D1 @25fps                                                                                                                             |
|                     | Decode capability              | 4*AHD-L (960H) @12fps/                                                                                                                                          |
|                     | Multi-Input (ONVIF 2.3)        | Analogue: 16*960H/16*D1/2D1+14CIF/16CIF<br>Analogue+ Network HD: 4*D1+4*1*1080P+3*720P<br>Network HD: 2*1080P+2*720P / 8*720P/1*1080P+1*720P+6*960H/16*D1       |
| Audio               | Audio compression              | G.711A                                                                                                                                                          |
|                     | Two-way communication          | Support                                                                                                                                                         |
| Record and Playback | Record mode                    | Manual, alarm, motion detection, timing                                                                                                                         |
|                     | Local playback                 | 1~16ch playback                                                                                                                                                 |
|                     | Video search                   | Time, date, event, channel search                                                                                                                               |
| Storage and Back up | Space Usage                    | Video CIF: 4~5G/day*channel, D1: 16~20G/day *channel, 960H: 9~42G/day*channel, 720P: 10G~42G/day*channel, 1080P: 20G~80G/day*channel, Audio 691.2M/day *channel |
|                     | Video storage                  | Local Hard Disk, Network                                                                                                                                        |
|                     | Back up mode                   | Network backup, USB portable HDD, USB DVD-RW                                                                                                                    |
| Interface           | Video input                    | 16ch BNC(1.0Vp-p, 75Ω)                                                                                                                                          |
|                     | Video output                   | 1ch BNC(1.0Vp-p, 75 Ω), 1ch VGA, 1ch HDMI                                                                                                                       |
|                     | Audio input                    | 2 / 6ch RCA (200-2800mV,30KΩ)                                                                                                                                   |
|                     | Audio output                   | 1ch RCA(200-3000mV,5KΩ) /1ch HDMI audio output                                                                                                                  |
|                     | Alarm input                    | No (can extend to 4ch )                                                                                                                                         |
|                     | Alarm output                   | No                                                                                                                                                              |
|                     | Network port                   | 1*RJ45 10/100 Base-T self-adaptive Ethernet port                                                                                                                |
|                     | PTZ control                    | 1*RS485 port, Support more than 20 kinds protocols.                                                                                                             |
|                     | USB port                       | Support USB 2.0 port                                                                                                                                            |
|                     | HDD port                       | Accommodates 1 SATA HDDs (1 HDD capacity up to 4TB)                                                                                                             |
|                     | Wireless Port                  | 3G & WIFI ( Extended by USB)                                                                                                                                    |
| User                | User level                     | Admin / User                                                                                                                                                    |
|                     | User right                     | Users can set different permissions (How to use please refer to the manual book)                                                                                |
|                     | Password protection            | Yes                                                                                                                                                             |
| Remote              | Remote Independent Operation   | Yes                                                                                                                                                             |
|                     | Download records               | Yes                                                                                                                                                             |
|                     | Remote Event Trigger Recording | Yes                                                                                                                                                             |
|                     | CMS                            | CMS Software for multiple DVR (up to 255 DVR simultaneously)                                                                                                    |
|                     | Browser                        | Internet Explorer, Mozilla Firefox, Google Chrome, Safari                                                                                                       |
|                     | Live Audio                     | Yes                                                                                                                                                             |
|                     | On-line user                   | Max. 10                                                                                                                                                         |
|                     | Mobile Surveillance            | YES (supporting iPad, iPhone, BlackBerry, Windows Mobile, Symbian & Android; iPad, iPhone, Android remote playback)                                             |
|                     | Network Protocol               | DHCP, PPPOE, NTP, Email, IP Authority, DDNS, FTP, ARSP, Alarm Center, Wireless Dialing, Mobile Monitor, UPNP, Wi-Fi, RTSP, Cloud Service, PMS                   |

## SPECIFICATIONS

|        |                          |                                                                                                             |
|--------|--------------------------|-------------------------------------------------------------------------------------------------------------|
| Alarm  | Motion detection         | 16 × 12 grids per channel;6 adjustable parameters for accurate detection<br>(for local analog channel only) |
|        | Event Notification       | FTP / E-Mail / PMS                                                                                          |
|        | Pre-alarm Recording      | Yes                                                                                                         |
|        | Video loss               | Video loss notification                                                                                     |
|        | Buzzer                   | Yes                                                                                                         |
| Others | IR remote controller     | Remotely control DVR and PTZ cameras via IR transmitter (IR receiver built-in)                              |
|        | Remote control           | Yes                                                                                                         |
|        | Cooling fan              | NO                                                                                                          |
|        | Tour                     | Yes                                                                                                         |
|        | Power Source (±10%)      | DC 12V /4A                                                                                                  |
|        | Power Consumption (±10%) | <10W (without HDD)                                                                                          |
|        | Operating Temperature    | 0℃ ~ +55℃                                                                                                   |
|        | Operating humidity       | 10% — 90%                                                                                                   |
|        | Atmosphere               | 86kpa — 106kpa                                                                                              |
|        | Dimensions (mm) **       | 325mm(L)* 245mm(W)* 52mm(H)                                                                                 |
|        | System Recovery          | System auto recovery after power failure                                                                    |

\*The specifications are subject to change without notice.

\*\* Dimensional tolerance: ±5mm