



VALUE

AX-NVR1616CP1S

16CH 4K POE Network Video Recorder

4K Resolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

FEATURES

- Input: Max. 16CH;
- Support (two-way) Audio;
- HD Output: 4K(3840x2160)/30Hz
- Video Compression : H265/H264/H265+/H264+
- 16x Independent 100Mbps POE Network Interfaces
- Support a variety of Language UI



TECHNICAL SPECIFICATION

SYSTEM

| | |
|------------------|-------------------------|
| | AX-NVR1616CP1S |
| Main Processor | ARM Cortex A7 Processor |
| Operating System | Embedded LINUX |

VIDEO

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|--------|--|
| Input | 16CH(3840*2160,2592x1944, 2048x1536, 1920x1080, 1280x960, 1280x720, etc) |
| Output | 1 VGA, 1 HD |

AUDIO

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|-------------------|--------------------------|
| Input | 1 Port RCA |
| Output | 1 Port RCA(Linear, 1kΩ) |
| Audio Bit Rate | 64kbps |
| Audio Compression | G711_U G711_A ADPCM_DVI4 |
| Intercom | support (two-way) |

ALARM

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|------------------|---|
| Sensor Input | N/A |
| Output | N/A |
| Motion Detection | 16 Channel, MD Zones: 396 (22 × 18) |
| Trigger Events | Recording, Email, FTP, Snapshot, Buzzer and Screen Tips, alarm output |

DISPLAY

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|---------------|--|
| HD Output1 | 1024x768/60Hz, 1280x720/60Hz, 1280x1024/60Hz, 1920x1080/60Hz, 4K(3840x2160)/30Hz |
| HD Output2 | N/A |
| VGA | Resolution:1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz |
| Display Split | 16CHxD1/9CHxD1/8CHxD1/6CHxD1//4CHxD1/1CHx1080P/1CHx3MP/1CHx4MP/1CHx5MP/1CHx4k |
| Digital Zoom | YES |
| OSD | Camera Title, Time, Recording, Motion Detection, Event Alarm |

RECORDING

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|-------------------|---|
| Video Compression | H265/H264/H265+/H264+ |
| Resolution | 4k(3840×2160),5MP(2592×1944),4MP(2688×1520/2560×1440),3MP(2048×1536),1080P(1920×1080),960P(1280×960),720P(1280×720),D1 (720×576/720×480) |
| Record Rate | PAL :4K@10CHx25fps,5MP@16CH×25fps,4MP@16CHx25fps,3MP@16CH×25fps,1080P@16CH×25fps,960P@16CH×25fps,720P@16CH×25fps, D1@16CH×25fps NTSC: 4K@10CHx30fps,5MP@16CH×30fps,4MP@16CH×30fps,3MP@16CH×30fps,1080P@16CH×30fps, 960P@16CH×30fps, 720P@16CH×30fps, D1@16CH×30fps |
| Record Mode | Manual\Timer\Motion Detection\ Alarm\Smart Event |

TECHNICAL SPECIFICATION

PLAYBACK & BACKUP

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|----------------------|--|
| | AX-NVR1616CP1S |
| Local Sync Playback | 1CH 4K@30fps, 1CH 5MP@30fps, 2CH 4MP@30fps, 2CH 3M@30fps, 4CH 1080P@30fps, 4CH 960P@30fps, 4CH 720P@30fps, 16CH D1@30fps |
| Decode Capability | 4CH 1080P(1920x1080)@30fps |
| Remote Sync Playback | YES |
| Search Mode | ALL, Channel, Manual, Time, Date, Motion Detection, Event Alarm, Tag search |
| Playback Functions | Play, Pause, Stop, Rewind, Fast play, Slow Play, Full Screen, Frame Play, Frame Rewind, Digital Zoom, tag, clip |
| Backup Mode | USB Device/Network |

NETWORK

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|--------------------|--|
| Network Interface | 16 x RJ45 (10M/100M Adaptive Ethernet Interface)+1xRJ45 10M/100M/1000M Adaptive Ethernet Interface |
| Incoming Bandwidth | 130M |
| Outgoing Bandwidth | N/A |
| Network Functions | TCP/IP, HTTP, UPnP, DNS, NTP, SMTP, DHCP, FTP, DDNS, RTSP, RTCP, p2p, PPPOE |
| Onvif | onvif S, onvif T |
| Web Browser | Edge, IE8-11, Google Chrome, Firefox, Safari |
| CMS Software | Support Windows 7/ Windows 8/ Windows 10/ MAC OS |
| Cloud Support | Yes |
| Smart Phone | iPhone, iPad, Android, Android Pad |
| POE | 16 x Independent 100Mbps POE Network Interfaces (Output Power AT mode 30W, AF mode 15W per Interface), 45/78 line order, Total Power Output 200W, Support Plug and Play, Support network cable extended mode Max. 200M |
| WIFI | N/A |

STORAGE

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|----------------|--|
| Interface Type | 1 SATA Hard Disk Interface (3.5" SATA) |
| Capacity | Up to 8TB capacity |
| eSATA | N/A |

GENERAL

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| Language UI | Traditional Chinese, Simplified Chinese, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, German, French, Portuguese, Turkic, Spanish, Italian, Hungarian, Romanian, Korean, Dutch, Greek, Vietnamese, Japanese |
| USB Interface | 2 USB 2.0 Interfaces |
| RS485 | N/A |
| Power consumption | AC 100-240V |
| Working Environment | -10°C-55°C, 10%-90% |
| Dimension(WxDxH) | 310*295*46(mm) |
| Weight | 4kg(without HDD) |