

## technical specifications

### VK-NVR1116



16 CH  
up to 4K



perimeter protection  
face detection  
human / vehicle detection



1 HDD  
up to 10 TB



HDMI up to 1080P  
audio 1 input / 1 output

#### System

|                        |                            |
|------------------------|----------------------------|
| OS                     | Embedded Linux             |
| OS operation interface | Web/operating in local GUI |

#### AI by camera

|                         |     |
|-------------------------|-----|
| Perimeter protection    | Yes |
| Face detection          | Yes |
| Human/vehicle detection | Yes |
| SMD                     | Yes |

#### Bandwidth

|           |         |
|-----------|---------|
| Incoming  | 138Mbps |
| Outcoming | 138Mbps |

#### Video & audio output

|              |                            |
|--------------|----------------------------|
| VGA          | 1080P / 1.3MP / 720P       |
| HDMI         | 1080P / 1.3MP / 720P       |
| Audio output | 1CH, RCA (line out, 2Vp-p) |

#### Audio

|                   |               |
|-------------------|---------------|
| Audio compression | G.711A        |
| Audio bit rate    | 8Kbps (16bit) |
| Two-way talk      | Yes           |

#### Video & audio decoding

|                       |                                |
|-----------------------|--------------------------------|
| IP channel resolution | Up to 3840 x 2160              |
| Video decoding        | H.265 / H.264                  |
| Audio decoding        | G.711A / G.711U / G.726        |
| Synchronous playback  | 16CH                           |
| Decoding ability      | 4CH 1080P@30fps / 1CH 4K@30fps |

#### Preview, playback & alarm

|                      |                                                                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Synchronous preview  | 16                                                                                                                                             |
| Multi-screen display | 1, 4, 9, 16 views                                                                                                                              |
| Record mode          | Manual; schedule (general, MD, alarm, intelligent)                                                                                             |
| AI search            | Search by target classification (human, vehicle, non-motor vehicle)                                                                            |
| Backup               | USB device                                                                                                                                     |
| Playback function    | 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame<br>2. Full screen, backup (cut/file), partially enlarge, audio on/off |
| Alarm linkage        | Record, snapshot, buzzer, log, preset, email                                                                                                   |

#### Network

|                  |                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------|
| Network protocol | HTTP, TCP/IP, IPv4, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, DDNS, FTP, P2P, Auto register |
| Mobile           | Android, iOS                                                                                              |
| Interoperability | ONVIF, SDK                                                                                                |
| Browser          | IE8 or later                                                                                              |

#### HDD

|              |      |
|--------------|------|
| SATA         | 1    |
| Max capacity | 10TB |

#### External interface

|              |              |
|--------------|--------------|
| Network      | 1 RJ-45 100M |
| VGA          | 1            |
| HDMI         | 1            |
| USB          | 2 x 2.0      |
| Audio input  | 1            |
| Audio output | 1            |



**General**

|                     |                           |
|---------------------|---------------------------|
| Dimensions          | Mini 1U 215 x 235 x 45 mm |
| Installation        | Desktop installation      |
| Power supply        | DC 12V 2A                 |
| Consumption         | 7W (without HDD)          |
| Working temperature | -10°C to +55°C            |
| Working humidity    | 10% ~ 90%                 |