

## DS-7100NI-K1/W/M Series Wi-Fi NVR



### Features and Functions

#### Video Input and Transmission

- Up to 4/8 IP cameras (max. incoming bandwidth: 50 Mbps)
- Live view of the connected camera at up to 4 MP resolution

#### Compression and Recording

- H.264, H.265, H.264+, and H.265+ compression.
- Full channel recording at up to 4 MP resolution

#### Video Output

- HDMI/VGA output with up to 1920 × 1080 resolution

#### Storage and Playback

- 1 SATA interface for HDD with up to 6 TB capacity
- Up to 4/8-ch synchronous playback
- Smart search for efficient playback

#### Smart Function

- Supports line crossing and intrusion VCA (Video Content Analytics) events for IP cameras

#### Network & Ethernet Access

- Hik-Connect for easy network management
- One 100M Ethernet network interface

#### Wi-Fi Features

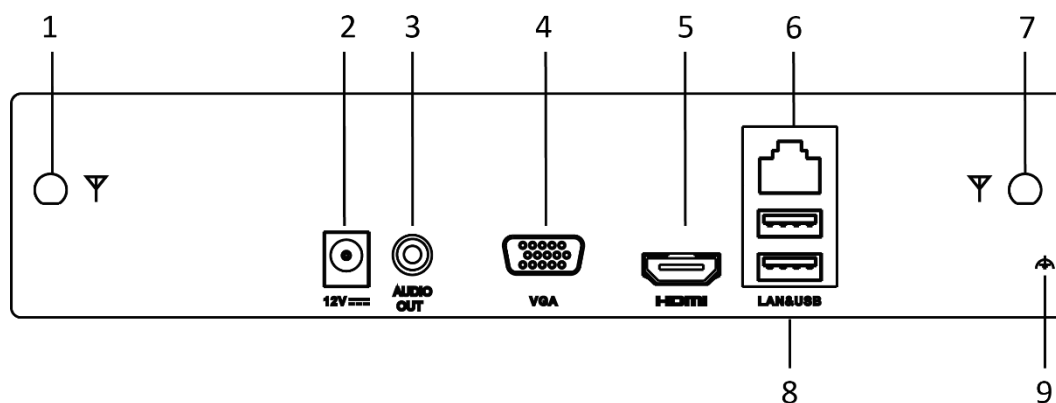
- Provides Wi-Fi function.
- Up to 16 terminals, including mobile phone and laptop, can access NVR via Wi-Fi
- Dual external antenna design offers more powerful and stable signal.



## Specifications

| Model               |                             | DS-7104NI-K1/W/M                                                                       | DS-7108NI-K1/W/M |
|---------------------|-----------------------------|----------------------------------------------------------------------------------------|------------------|
| Video/Audio input   | IP video input              | 4-ch                                                                                   | 8-ch             |
|                     | Incoming/outgoing bandwidth | 50/40 Mbps                                                                             |                  |
| Video/Audio output  | HDMI/VGA output             | 1-ch, resolution: 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz |                  |
|                     | Audio output                | 1-ch, RCA (linear, 1 KΩ)                                                               |                  |
| Decoding            | Recording resolution        | 4 M/3 M/1080p/1.3 M/720p                                                               |                  |
|                     | Synchronous playback        | 4-ch                                                                                   | 8-ch             |
|                     | Capacity                    | 2-ch@1080p / 1-ch@4 MP                                                                 |                  |
| Hard disk           | SATA                        | 1 SATA interface                                                                       |                  |
|                     | Capacity                    | Up to 6 TB capacity for each disk                                                      |                  |
| Wireless parameters | Frequency band              | 2.4 GHz                                                                                |                  |
|                     | Antenna structure           | 2 × 2MIMO                                                                              |                  |
|                     | Transmission speed          | 144 Mbps                                                                               |                  |
|                     | Transmission standard       | IEEE 802.11b/g/n                                                                       |                  |
| External interface  | Network interface           | 1, RJ45 10/100M Ethernet interface                                                     |                  |
|                     | USB interface               | Rear panel: 2 × USB 2.0                                                                |                  |
| General             | Power supply                | 12 VDC                                                                                 |                  |
|                     | Consumption (without HDDs)  | ≤ 12 W                                                                                 |                  |
|                     | Working temperature         | -10 °C to +55 °C (14 °F to 131 °F)                                                     |                  |
|                     | Working humidity            | 10% to 90%                                                                             |                  |
|                     | Dimensions (W × D × H)      | 260 × 246 × 48 mm (10.2" × 9.7" × 1.9")                                                |                  |
|                     | Weight (without HDDs)       | ≤ 1 kg (2.2 lb)                                                                        |                  |

## Physical Interfaces



| No. | Name           | No. | Name          |
|-----|----------------|-----|---------------|
| 1   | Wi-Fi antenna  | 6   | LAN           |
| 2   | Power supply   | 7   | Wi-Fi antenna |
| 3   | Audio out      | 8   | USB           |
| 4   | VGA interface  | 9   | Ground        |
| 5   | HDMI interface |     |               |

## Available Models

DS-7104NI-KI/W/M,

DS-7108NI-KI/W/M

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**DS-2CD2041G1-IDW1**

**4 MP IR Fixed Network Bullet Camera**



## Key Features

- 1/3" Progressive Scan CMOS
- 2560 × 1440 @ 20fps
- 2.8/4 mm fixed lens
- Wi-Fi Connection
- H.265+, H.265, H.264+, H.264
- Color: 0.01 Lux @(F1.2; AGC ON), 0.028 Lux @(F2.0; AGC ON)
- 3D Digital Noise Reduction
- Audio I/O: 1 built-in mic, mono sound
- IP66



## Specifications

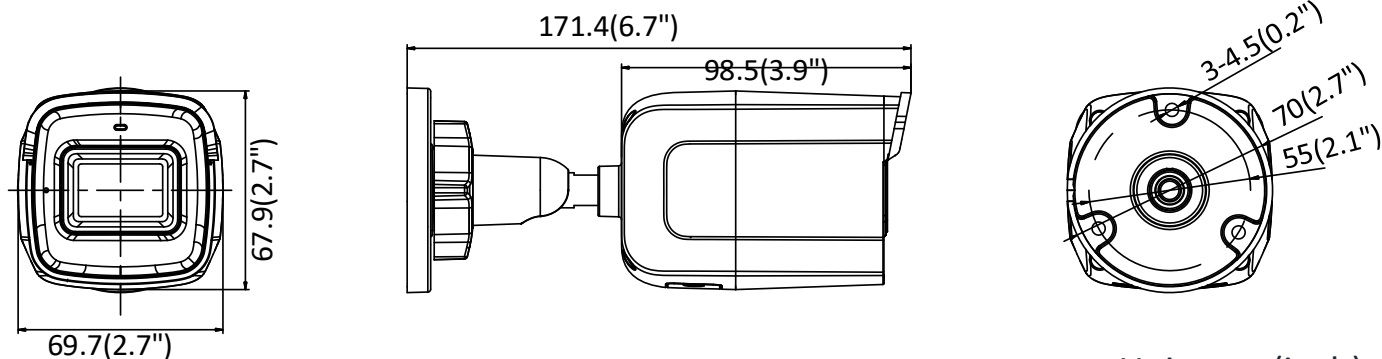
| <b>Camera</b>               |                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor                | 1/3" Progressive Scan CMOS                                                                                                                         |
| Min. Illumination           | Color: 0.01 Lux @(F1.2; AGC ON), 0.028 Lux @(F2.0; AGC ON)                                                                                         |
| Shutter Speed               | 1/3 s to 1/100,000 s                                                                                                                               |
| Slow Shutter                | Yes                                                                                                                                                |
| Auto-Iris                   | No                                                                                                                                                 |
| Day & Night                 | IR Cut Filter                                                                                                                                      |
| Digital Noise Reduction     | 3D DNR                                                                                                                                             |
| Wide Dynamic Range          | DWDR                                                                                                                                               |
| Axis Adjustment             | Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°                                                                                               |
| <b>Lens</b>                 |                                                                                                                                                    |
| Focal Length                | 2.8/4 mm                                                                                                                                           |
| Aperture                    | F2.0                                                                                                                                               |
| Focus                       | No                                                                                                                                                 |
| FOV                         | 2.8 mm, horizontal FOV: 100°, vertical FOV: 55°, diagonal FOV: 117°<br>4 mm, horizontal field of view: 75°, vertical FOV: 41°, diagonal FOV: 88°   |
| Lens Mount                  | M12                                                                                                                                                |
| <b>IR</b>                   |                                                                                                                                                    |
| IR Range                    | Up to 30 m                                                                                                                                         |
| Wavelength                  | 850nm                                                                                                                                              |
| <b>Compression Standard</b> |                                                                                                                                                    |
| Video Compression           | Main stream: H.265/H.264<br>Sub-stream: H.265/H.264/MJPEG                                                                                          |
| H.264 Type                  | Baseline Profile/Main Profile/High Profile                                                                                                         |
| H.264+                      | Main stream supports                                                                                                                               |
| H.265 Type                  | Main Profile                                                                                                                                       |
| H.265+                      | Main stream supports                                                                                                                               |
| Audio Compression           | G.711/G.722.1/G.726/MP2L2/PCM                                                                                                                      |
| Audio Bit Rate              | 64Kbps (G.711)/16Kbps (G.722.1)/16Kbps (G.726)/32-192Kbps (MP2L2)                                                                                  |
| Video Bit Rate              | 32 Kbps to 8Mbps                                                                                                                                   |
| Audio Sampling Rate         | 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz                                                                                                                |
| Environment Noise Filtering | Yes                                                                                                                                                |
| <b>Smart Feature-set</b>    |                                                                                                                                                    |
| Region of Interest          | Support 1 fixed region for main stream and sub-stream                                                                                              |
| <b>Image</b>                |                                                                                                                                                    |
| Max. Resolution             | 2560 × 1440                                                                                                                                        |
| Main Stream                 | 50Hz: 20fps (2560 × 1440), 25fps (2304 × 1296, 1920 × 1080, 1280 × 720)<br>60Hz: 20fps (2560 × 1440), 30fps (2304 × 1296, 1920 × 1080, 1280 × 720) |
| Sub Stream                  | 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240)<br>60Hz: 30fps (640 × 480, 640 × 360, 320 × 240)                                                     |
| Image Enhancement           | BLC/3D DNR                                                                                                                                         |
| Image Settings              | Saturation, brightness, contrast and sharpness are adjustable via client software and web browser                                                  |
| Day/Night Switch            | Auto/Scheduled/Day/Night                                                                                                                           |
| <b>Network</b>              |                                                                                                                                                    |

|                               |                                                                                                                               |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Alarm Trigger                 | Motion detection, video tampering, network disconnected, IP address conflict, illegal login, HDD error, HDD full              |
| Network Storage               | Support built-in microSD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR                                     |
| Protocols                     | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, QoS, IPv6, UDP, Bonjour |
| General Function              | One-key reset, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter                             |
| Firmware Version              | V5.5.60                                                                                                                       |
| API                           | ONVIF(PROFILE S,PROFILE G), ISAPI                                                                                             |
| Simultaneous Live View        | Up to 6 channels                                                                                                              |
| User/Host                     | Up to 32 users<br>3 levels: Administrator, Operator and User                                                                  |
| Client                        | iVMS-4200, Hik-Connect, iVMS-5200, iVMS-4500                                                                                  |
| Web Browser                   | IE8+, Chrome 31.0-44, Firefox 30.0-51, Safari 8.0+                                                                            |
| <b>Interface</b>              |                                                                                                                               |
| Communication Interface       | 1 RJ45 10M/100M self-adaptive Ethernet port                                                                                   |
| On-board Storage              | Built-in microSD/SDHC/SDXC slot, up to 128 GB                                                                                 |
| Audio I/O                     | 1 Built-in mic, mono sound                                                                                                    |
| Video Out                     | No                                                                                                                            |
| Alarm I/O                     | No                                                                                                                            |
| Reset Button                  | Yes                                                                                                                           |
| <b>Wi-Fi</b>                  |                                                                                                                               |
| Wireless Standards            | IEEE802.11b, 802.11g, 802.11n                                                                                                 |
| Frequency Range               | 2.412 GHz - 2.472 GHz                                                                                                         |
| Channel Bandwidth             | 20/40MHz                                                                                                                      |
| Protocols                     | 802.11b: CCK, QPSK, BPSK,<br>802.11g/n: OFDM                                                                                  |
| Security                      | 64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK, WPS                                                                               |
| Transfer Rates                | 11b/g: 54Mbps, 11n: up to 150Mbps                                                                                             |
| Wireless Range                | Up to 50 m<br>(The performance varies based on a ctual environment)                                                           |
| Power Consumption             | <20dBm                                                                                                                        |
| <b>General</b>                |                                                                                                                               |
| Operating Conditions          | -30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing)                                                   |
| Power Supply                  | 12 VDC ± 25%, Φ 5.5 mm coaxial plug power                                                                                     |
| Power Consumption and Current | 12 VDC, 0.5 A, Max: 6W                                                                                                        |
| Protection Level              | IP66                                                                                                                          |
| Material                      | Front cover: plastic, camera body: metal                                                                                      |
| Dimensions                    | Camera: 69.7 mm × 67.9 mm × 171.4 mm (2.7" × 2.7" × 6.7")<br>With package: 216 mm × 121 mm × 118 mm (8.5" × 4.8" × 4.6")      |
| Weight                        | Camera: 372g (0.8lb)<br>With package: 659g(1.5lb)                                                                             |

## Available Model:

DS-2CD2041G1-IDW1(2.8/4 mm)

## Dimensions



Unit: mm(inch)

## Accessory



DS-1280ZI-S  
Junction Box

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