



# Intelligent Starlight IP Solution



## KEY FEATURES



1

### Starlight

With using Dahua in-house ISP& hardware solution, starlight series camera provides excellent image at night.



2

### 30x Zoom

Starlight speed dome camera offers 30x optical zoom.



3

### 1080P@60fps

1080P@60fps makes images smoother than normal 1080P@30fps.



4

### SSA(Smart Scene Adaptive)

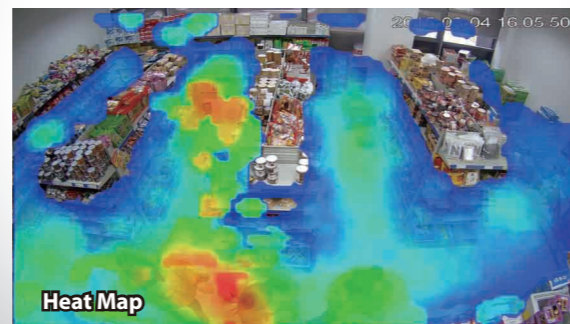
Dahua intelligent image technology supports automatic switchover between different scenes.



5

### WDR

Wide dynamic range (120 dB) offers high performance in backlight and dark areas.



6

### Intelligent Function

Starlight camera offers intelligent functions such as people counting, heat map and auto tracking.

## SMART PERFORMANCE

Starlight series also features smart functions which is able to meet all specific requirements.



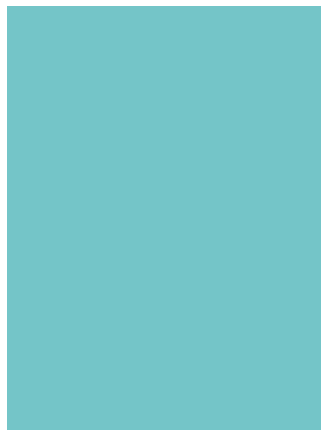
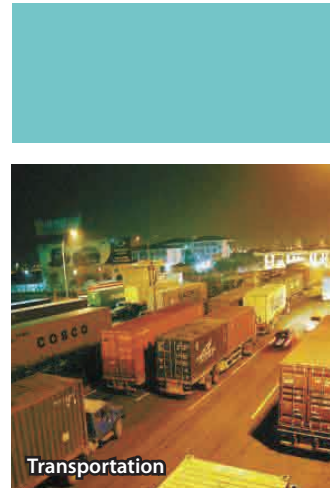
## ■ SMART SOLUTION

Starlight series integrates easily with Dahua NVRs, accessory and video management software to build a complete security surveillance solution.



## ■ IDEAL APPLICATION

Dahua Starlight series can be used in multiple applications, including Retail, Transportation and Parking Management.



# DH-IPC-HF8281E

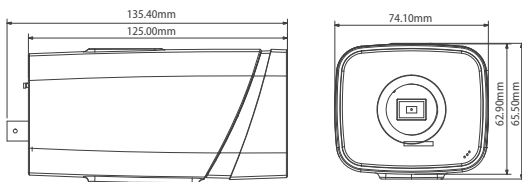
## 2MP Starlight Ultra-smart Network Camera



### Features

- 1/1.9" 2 Megapixel progressive scan Exmor CMOS
- Support H.264,MJPEG dual codec
- Smart triple streams supported
- Max 50/60ps@1080P(1920x1080)
- Ultra WDR (Wide Dynamic Range) up to 120dB
- Ultra 3D DNR, Excellent performance under low illumination
- Ultra Defog, ROI, EIS
- Smart detection
- Intelligent Function
- Auto back focus(ABF)
- Micro SD memory, PoE

### Dimensions (mm)



### Accessories (optional)



DH-OPT-118F0418D01-IR3MP DH-OPT-118F1250D01-IR8MP PFB121W

### Technical Specifications

| Model                      | DH-IPC-HF8281EP  | DH-IPC-HF8281EN            |
|----------------------------|--|----------------------------|
| <b>Camera</b>              |  |                            |
| Image Sensor               | 1/1.9" 2Megapixel progressive scan Exmor CMOS  |                            |
| Effective Pixels           | 1920(H)×1080(V)  |                            |
| Scanning System            | Progressive  |                            |
| Electronic Shutter Speed   | Auto/Manual, 1/3~1/10000s  | Auto/Manual, 1/4~1/10000s  |
| Min. Illumination          | 0.002Lux/F1.2 (Color), 0.0002Lux/F1.2(B/W)   |                            |
| S/N Ratio                  | More than 50dB   |                            |
| Video Output               | 1 channel BNC (1.0Vp-p, 75Ω)   |                            |
| <b>Camera Features</b>     |  |                            |
| Max. IR LEDs Length        | N/A  |                            |
| Day/Night                  | Auto(ICR)/Color/B/W  |                            |
| Backlight Compensation     | BLC / HLC / WDR(120dB)   |                            |
| White Balance              | Auto/Manual  |                            |
| Gain Control               | Auto/Manual  |                            |
| Noise Reduction            | 3D   |                            |
| Privacy Masking            | Up to 4 areas  |                            |
| EIS                        | Support  |                            |
| Ultra Defog                | Support  |                            |
| Smart focus                | ABF  |                            |
| <b>Lens</b>                |  |                            |
| Mount Type                 | C/CS   |                            |
| <b>Video</b>               |  |                            |
| Compression                | H.264/MJPEG  |                            |
| Resolution                 | 1080P(1920×1080)/720P(1280×720)/D1(704×576)/CIF(352×288)   |                            |
| Frame Rate                 | Main Stream  | 1080P/720P(1 ~ 50/60fps)   |
|                            | Sub Stream   | D1/CIF(1 ~ 1025/30fps)     |
|                            | Third Stream   | 1080P/720P(1 ~ 1025/30fps) |
| Bit Rate                   | H.264: 32K ~ 8192Kbps  |                            |
| ROI                        | Up to 4 areas  |                            |
| <b>Audio</b>               |  |                            |
| Compression                | G.711a / G.711u  |                            |
| Interface                  | 1/1 channel In/Out   |                            |
| <b>Smart Function</b>      |  |                            |
| Smart detection            | Tripwire   |                            |
|                            | Intrusion  |                            |
|                            | Scene change   |                            |
|                            | Missing/Abandoned  |                            |
|                            | Audio detect   |                            |
|                            | Face detect  |                            |
| Intelligent function       | People counting  |                            |
|                            | Heat map   |                            |
| <b>Network</b>             |  |                            |
| Ethernet                   | RJ-45 (10/100Base-T)   |                            |
| Wi-Fi                      | N/A  |                            |
| Protocol                   | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour |                            |
| Compatibility              | ONVIF ,PSIA,CGI  |                            |
| Max. User Access           | 20 users   |                            |
| Smart Phone                | iPhone, iPad, Android, Windows Phone   |                            |
| <b>Auxiliary Interface</b> |  |                            |
| Memory Slot                | Micro SD, Max 64GB   |                            |
| RS485                      | 1  |                            |
| Alarm                      | 2/1 channel In/Out   |                            |
| <b>General</b>             |  |                            |
| Power Supply               | DC12V/AC24V, PoE (802.3af)   |                            |
| Power Consumption          | Max 10W (ABF&ICR on)   |                            |
| Working Environment        | -30°C~+60°C, Less than 95% RH  |                            |
| Ingress Protection         | N/A  |                            |
| Dimensions                 | 74.1mm×65.5mm×135.4mm  |                            |
| Weight                     | 0.3Kg  |                            |

# DH-IPC-HFW8281E-Z

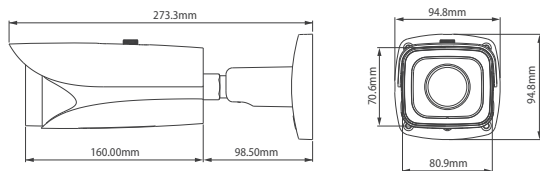
## 2MP Starlight Ultra-Smart Network Camera



### Features

- 1/1.9" 2 Megapixel progressive scan CMOS
- Support H.264, MJPEG dual codec
- Smart triple streams supported
- Max 50/60fps@1080P
- Illumination: 0.005Lux/F1.65 (Color)
- Ultra WDR (Wide Dynamic Range) up to 120dB
- Ultra 3D DNR
- Ultra Defog, ROI, EIS
- Smart detection
- Intelligent Function
- 4~8mm varifocal motorized lens

### Dimensions (mm)



### Accessories (optional)



PFA121 PFA151 PFA152

### Technical Specifications

| Model                      | DH-IPC-HFW8281EP-Z   | DH-IPC-HFW8281EN-Z                                       |
|----------------------------|--|--|
| <b>Camera</b>              |  |  |
| Image Sensor               | 1/1.9" 2Megapixel CMOS   |  |
| Effective Pixels           | 1920(H)x1080(V)  |  |
| Scanning System            | Progressive  |  |
| Electronic Shutter Speed   | Auto/Manual, 1/3~1/10000s  | Auto/Manual, 1/4~1/10000s                                |
| Min. Illumination          | 0.005Lux/F1.65 (Color), 0Lux/F1.65(IR on)  |  |
| S/N Ratio                  | More than 50dB   |  |
| Video Output               | 1 port   |  |
| <b>Camera Features</b>     |  |  |
| Max. IR LEDs Length        | 50m  |  |
| Day/Night                  | Auto(ICR)/Color/B/W  |  |
| Backlight Compensation     | BLC / HLC / WDR(120 dB)  |  |
| White Balance              | Auto/Manual  |  |
| Gain Control               | Auto/Manual  |  |
| Noise Reduction            | 3D   |  |
| Privacy Masking            | Up to 4 areas  |  |
| EIS                        | Support  |  |
| Ultra Defog                | Support  |  |
| <b>Lens</b>                |  |  |
| Focal Length               | 4~8mm motorized  |  |
| Max Aperture               | F1.65  |  |
| Focus Control              | Auto   |  |
| Angle of View              | H:90°(Wide)~58°(Tele)  |  |
| Lens Type                  | Motorized /Auto Iris(DC)   |  |
| Mount Type                 | Board-in type  |  |
| <b>Video</b>               |  |  |
| Compression                | H.264/MJPEG  |  |
| Resolution                 | 1080P(1920×1080)/720P(1280×720)/D1(704×576)/CIF(352×288)   | 1080P(1920×1080)/720P(1280×720)/D1(704×480)/CIF(352×240) |
| Frame Rate                 | Main Stream  | 1080P/720P(1 ~ 50/60fps)                                 |
|                            | Sub Stream   | D1/CIF(1 ~ 25/30fps)                                     |
|                            | Third Stream   | 1080P/720P/D1(1 ~ 25/30fps)                              |
| Bit Rate                   | H.264: 48K ~ 8192Kbps  |  |
| ROI                        | Up to 4 areas  |  |
| <b>Audio</b>               |  |  |
| Compression                | G.711a / G.711u  |  |
| Interface                  | 1/1 channel In/Out   |  |
| <b>Smart Function</b>      |  |  |
| Smart detection            | Tripwire   |  |
|                            | Intrusion  |  |
|                            | Scene change   |  |
|                            | Missing/Abandoned  |  |
|                            | Audio detect   |  |
|                            | Defocus detect   |  |
|                            | Face detect  |  |
| Intelligent function       | People counting  |  |
|                            | Heat map   |  |
| <b>Network</b>             |  |  |
| Ethernet                   | RJ-45 (10/100Base-T)   |  |
| Wi-Fi                      | N/A  |  |
| Protocol                   | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTPS, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour |  |
| Compatibility              | ONVIF, PSIA, CGI   |  |
| Max. User Access           | 20 users   |  |
| Smart Phone                | iPhone, iPad, Android, Windows Phone   |  |
| <b>Auxiliary Interface</b> |  |  |
| Memory Slot                | Micro SD, Max 64GB   |  |
| Alarm                      | 1/1 channel In/Out   |  |
| <b>General</b>             |  |  |
| Power Supply               | DC12V(AC24V optional), PoE (802.3af)   |  |
| Power Consumption          | <12.5W   |  |
| Working Environment        | -30°C~+60°C, Less than 90% RH  |  |
| Ingress Protection         | IP66 (IK10, optional)  |  |
| Dimensions                 | 273.3mm × 94.8mm × 94.8mm  |  |
| Weight                     | 1.3kg  |  |

# DH-IPC-HDB(W)8281-Z

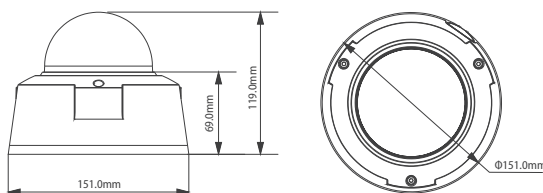
## 2MP Starlight Ultra-smart Network (IR) Dome Camera



### Features

- 1/1.9" 2 Megapixel progressive scan CMOS
- Support H.264,MJPEG dual codec
- Smart triple streams supported
- Max 50/60fps@1080P
- Illumination: 0.005Lux/F1.65 (Color)
- Ultra WDR (Wide Dynamic Range) up to 120dB
- Ultra 3D DNR
- Ultra Defog, ROI, EIS
- Smart detection: Intelligent Function
- 4~8mm varifocal motorized lens
- Micro SD memory, IP66, IK10, PoE

### Dimensions (mm)



### Accessories (optional)



### Technical Specifications

| Model                      | DH-IPC-HDB8281-Z   | DH-IPC-HDBW8281-Z         |
|----------------------------|--|---------------------------|
| <b>Camera</b>              |  |                           |
| Image Sensor               | 1/1.9" 2Megapixel progressive scan Exmor CMOS  |                           |
| Effective Pixels           | 1920(H)x1080(V)  |                           |
| Scanning System            | Progressive  |                           |
| Electronic Shutter Speed   | Auto/Manual 1/3(4)~1/10000   |                           |
| Min. Illumination          | 0.005Lux/F1.65 (Color), 0Lux/F1.65(IR on)  |                           |
| S/N Ratio                  | More than 50dB   |                           |
| Video Output               | 1 port   |                           |
| <b>Camera Features</b>     |  |                           |
| Max. IR LEDs Length        | N/A  | 30m                       |
| Day/Night                  | Auto(ICR)/Color/B/W  |                           |
| Backlight Compensation     | BLC / HLC / WDR(120 dB)  |                           |
| White Balance              | Auto   |                           |
| Gain Control               | Auto/Manual  |                           |
| Noise Reduction            | 3D   |                           |
| Privacy Masking            | Up to 4 areas  |                           |
| <b>Lens</b>                |  |                           |
| Focal Length               | 4~8mm  |                           |
| Max Aperture               | F1.65  |                           |
| Focus Control              | Auto   |                           |
| Angle of View              | H: 105°(Wide)~56°(Tele)  |                           |
| Lens Type                  | Motorized /Auto Iris(DC)   |                           |
| Mount Type                 | Board-in Type  |                           |
| <b>Video</b>               |  |                           |
| Compression                | H.264 / MJPEG  |                           |
| Resolution                 | 1080P(1920×1080) / 720P(1280×720) /D1(704×576) /CIF(352×288)   |                           |
| Frame Rate                 | Main Stream  | 1080P/720P(1~50/60fps)    |
|                            | Sub Stream   | D1/CIF(1 ~ 25/30fps)      |
|                            | Third Stream   | 1080P/720P/D1(1~25/30fps) |
| Bit Rate                   | H.264: 32K ~ 8192Kbps  |                           |
| <b>Audio</b>               |  |                           |
| Compression                | G.711a / G.711u  |                           |
| Interface                  | 1/1 channel In/Out   |                           |
| <b>Smart Function</b>      |  |                           |
| Smart detection            | Tripwire   |                           |
|                            | Intrusion  |                           |
|                            | Scene change   |                           |
|                            | Missing/Abandoned  |                           |
|                            | Audio detect   |                           |
| Intelligent Function       | People counting  |                           |
|                            | Heat map   |                           |
| <b>Network</b>             |  |                           |
| Ethernet                   | RJ-45 (10/100Base-T)   |                           |
| Wi-Fi                      | N/A  |                           |
| Protocol                   | IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour |                           |
| Compatibility              | ONVIF PSIA CGI   |                           |
| Max. User Access           | 20 users   |                           |
| Smart Phone                | iPhone, iPad, Android, Windows Phone   |                           |
| <b>Auxiliary Interface</b> |  |                           |
| Memory Slot                | Micro SD, Max 64GB   |                           |
| RS485                      | N/A  |                           |
| Alarm                      | 1/1 channel In/Out   |                           |
| PIR Sensor Range           | N/A  |                           |
| <b>General</b>             |  |                           |
| Power Supply               | DC12V/AC24V, PoE(802.3af)  |                           |
| Power Consumption          | <12W (IR on: +2W)  |                           |
| Working Environment        | -30°C~+60°C , Less than 95%RH  |                           |
| Ingress Protection         | IP66   |                           |
| Vandal Resistance          | IK10   |                           |
| Dimensions                 | Φ151mm×119mm   |                           |
| Weight                     | 1.25kg   |                           |

# DH-SD6AE230F-HNI

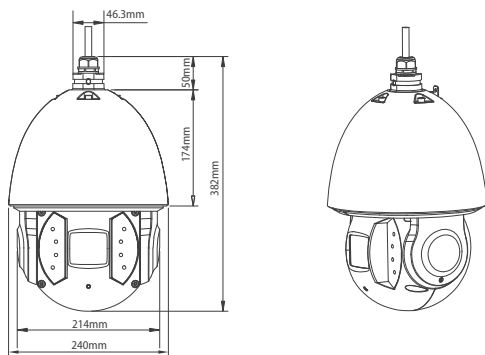
## 2Mp Full HD 30x Starlight Network IR PTZ Dome Camera



### Features

- Powerful 30x optical zoom
- Ultra-low light camera
- H.264 & MJPEG Three-stream encoding
- Max 60fps@720P and 30fps@1080P resolution
- Defog, WDR, EIS, ROI, Day/Night(ICR), DNR (2D&3D), Auto iris, Auto focus, AWB, AGC,BLC
- Auto-tracking and IVS
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Max 240°/s pan speed, 360° endless pan rotation
- Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 7/2 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- Micro SD memory, IP67, IK10, Hi-POE
- IR Distance up to 200m

### Dimensions (mm)



### Accessories



### Accessories(optional)



### Technical Specifications

| Model                       | DH-SD6AE230F-HNI  |  |
|-----------------------------|---|--|
| <b>Camera</b>               |   |  |
| Image Sensor                | 1/1.9" CMOS   |  |
| Effective Pixels            | 1944(H) x 1092(V), 2 Megapixels   |  |
| Scanning System             | Progressive   |  |
| Electronic Shutter Speed    | 1/1 ~ 1/30,000s   |  |
| Min. Illumination           | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux (IR on)   |  |
| S/N Ratio                   | More than 56dB  |  |
| Video Output                | BNC(1.0Vp-p/75Ω), PAL / NTSC  |  |
| <b>Camera Features</b>      |   |  |
| Day/Night                   | Auto(ICR) / Color / B/W   |  |
| Backlight Compensation      | BLC / HLC / WDR(120dB)  |  |
| White Balance               | Auto, ATW, Indoor, Outdoor, Manual  |  |
| Gain Control                | Auto / Manual   |  |
| Noise Reduction             | Ultra DNR (2D/3D)   |  |
| Privacy Masking             | Up to 24 areas  |  |
| Digital Zoom                | 16x   |  |
| EIS                         | Support   |  |
| Defog                       | Support   |  |
| <b>Lens</b>                 |   |  |
| Focal Length                | 5mm~150mm(30x Optical zoom)   |  |
| Max Aperture                | F1.6 ~ F4.8   |  |
| Focus Control               | Auto / Manual   |  |
| Angle of View               | H: 51.2° ~ 1.8°   |  |
| Close Focus Distance        | 100mm~ 1000mm   |  |
| <b>PTZ</b>                  |   |  |
| Pan/Tilt Range              | Pan: 0° ~ 360° endless; Tilt: -10° ~ 90°, auto flip 180°  |  |
| Manual Control Speed        | Pan: 0.1° ~240° /s; Tilt: 0.1° ~120° /s   |  |
| Preset Speed                | Pan: 240° /s; Tilt: 200° /s   |  |
| Preset                      | 300   |  |
| PTZ Mode                    | 5 Pattern, 8 Tour, Auto Pan, Auto Scan  |  |
| Speed Setup                 | Human-oriented focal length/ speed adaptation   |  |
| Power up Action             | Auto restore to previous PTZ and lens status after power failure  |  |
| Idle Motion                 | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period   |  |
| Time Task                   | Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time  |  |
| Protocol                    | DH-SD, Pelco-P/D (Auto recognition)   |  |
| <b>Video</b>                |   |  |
| Compression                 | H.264 / MJPEG   |  |
| Resolution                  | 1080P(1920×1080) / 720P(1280×720) /D1(704×576/704×480)/CIF(352×288/352×240)   |  |
| Frame Rate                  | Main Stream   | 1080P/ D1 (1 ~ 25/30fps), 720P(1~50/60fps) |
|                             | Sub Stream1   | D1/CIF(1 ~ 25/30fps)                       |
|                             | Sub Stream2   | 720P/D1/ CIF (1 ~ 25/30fps)                |
| Bit Rate                    | H.264: 56K ~ 8192Kbps, MJPEG: 56K ~ 20480Kbps   |  |
| <b>Audio</b>                |   |  |
| Compression                 | G.711a / G.711u(32Kbps)/ PCM(128Kbps)   |  |
| Interface                   | 1/1 channel In/Out  |  |
| <b>Intelligent Function</b> |   |  |
| Auto Tracking               | Single-scene, multiple-scene, panorama-scene  |  |
| IVS                         | Tripwire, Intrusion, Cross Warning Zone, Perimeter Protection, Loitering Detection, Abandoned Object Detection, Missing Object Detection, Illegal Parking, Fast Moving and etc. |  |
| Tracking Trigger Mode       | Manual / Auto (alarm triggered)   |  |
| Tracking Trigger Event      | Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.  |  |
| <b>Network</b>              |   |  |
| Ethernet                    | RJ-45 (10/100Base-T)  |  |
| Protocol                    | IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x                           |  |
| Compatibility               | ONVIF PSIA CGI  |  |
| Max. User Access            | 20 users  |  |
| Smart Phone                 | iPhone, iPad, Android, Windows Phone  |  |
| <b>Auxiliary Interface</b>  |   |  |
| Memory Slot                 | Micro SD, Max 64GB  |  |
| RS485                       | 1   |  |
| Alarm                       | 7/2 channel In/Out  |  |
| <b>General</b>              |   |  |
| Power Supply                | AC24V/3A(±25%), Hi-PoE  |  |
| Power Consumption           | 20W, 43W (IR on, Heater on)   |  |
| Working Environment         | -40°C ~ 70°C / Less than 90% RH   |  |
| Ingress Protection          | IP67, IK10  |  |
| Dimensions                  | Φ240mm×382mm  |  |
| Weight                      | 6.75kg  |  |

# DH-SD6AL230F-HNI

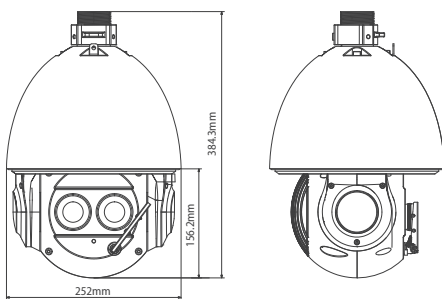
## 2Mp Full HD 30x Starlight Network Laser PTZ Dome Camera



### Features

- Powerful 30x optical zoom
- Ultra-low light camera
- H.264 & MJPEG Three-stream encoding
- Max 60fps@720P and 30fps@1080P resolution
- Defog, WDR, EIS, ROI, Day/Night(ICR), DNR (2D&3D), Auto iris, Auto focus, AWB, AGC,BLC
- Auto-tracking and IVS
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- Max 240°/s pan speed, 360° endless pan rotation
- Up to 300 presets, 5 auto scan, 8 tour, 5 pattern
- Built-in 7/2 alarm in/out
- Support intelligent 3D positioning with DH-SD protocol
- Micro SD memory, IP67, Hi-POE
- IR Distance up to 500m

### Dimensions (mm)



### Accessories



### Accessories(optional)



### Technical Specifications

| Model                       | DH-SD6AL230F-HNI  |  |
|-----------------------------|---|--|
| <b>Camera</b>               |   |  |
| Image Sensor                | 1/1.9" CMOS   |  |
| Effective Pixels            | 1944(H) x 1092(V), 2 Megapixels   |  |
| Scanning System             | Progressive   |  |
| Electronic Shutter Speed    | 1/1 ~ 1/30,000s   |  |
| Min. Illumination           | Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux (IR on)   |  |
| S/N Ratio                   | More than 56dB  |  |
| Video Output                | BNC(1.0Vp-p/75Ω), PAL / NTSC  |  |
| <b>Camera Features</b>      |   |  |
| Day/Night                   | Auto(ICR) / Color / B/W   |  |
| Backlight Compensation      | BLC / HLC / WDR(120dB)  |  |
| White Balance               | Auto, ATW, Indoor, Outdoor, Manual  |  |
| Gain Control                | Auto / Manual   |  |
| Noise Reduction             | Ultra DNR (2D/3D)   |  |
| Privacy Masking             | Up to 24 areas  |  |
| Digital Zoom                | 16x   |  |
| EIS                         | Support   |  |
| Defog                       | Support   |  |
| <b>Lens</b>                 |   |  |
| Focal Length                | 5mm~150mm(30x Optical zoom)   |  |
| Max Aperture                | F1.6 ~ F4.8   |  |
| Focus Control               | Auto / Manual   |  |
| Angle of View               | H: 51.2° ~ 1.8°   |  |
| Close Focus Distance        | 100mm~ 1000mm   |  |
| <b>IR Light</b>             |   |  |
| Laser Light Control         | Auto / Manual   |  |
| Laser Distance              | Up to 500m  |  |
| Angle of Laser Light        | 2° ~ 68°  |  |
| <b>PTZ</b>                  |   |  |
| Pan/Tilt Range              | Pan: 0° ~ 360° endless; Tilt: -10° ~ 90°, auto flip 180°  |  |
| Manual Control Speed        | Pan: 0.1° ~ 240° /s; Tilt: 0.1° ~ 120° /s   |  |
| Preset Speed                | Pan: 240° /s; Tilt: 200° /s   |  |
| Preset                      | 300   |  |
| PTZ Mode                    | 5 Pattern, 8 Tour, Auto Pan, Auto Scan  |  |
| Speed Setup                 | Human-oriented focal length/ speed adaptation   |  |
| Power up Action             | Auto restore to previous PTZ and lens status after power failure  |  |
| Idle Motion                 | Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period   |  |
| Time Task                   | Auto activation of Preset/ Pan/ Scan/ Tour/ Pattern by preset-time  |  |
| Protocol                    | DH-SD, Pelco-P/D (Auto recognition)   |  |
| <b>Video</b>                |   |  |
| Compression                 | H.264 / MJPEG   |  |
| Resolution                  | 1080P(1920×1080) / 720P(1280×720) / D1(704×576/704×480)/CIF(352×288/352×240)  |  |
| Frame Rate                  | Main Stream   | 1080P/ D1 (1 ~ 25/30fps), 720P(1~50/60fps) |
|                             | Sub Stream1   | D1/CIF(1 ~ 25/30fps)                       |
|                             | Sub Stream2   | 720P/D1/ CIF (1 ~ 25/30fps)                |
| Bit Rate                    | H.264: 56K ~ 8192Kbps, MJPEG: 56K ~ 20480Kbps   |  |
| <b>Audio</b>                |   |  |
| Compression                 | G.711a / G.711u(32kbps)/ PCM(128kbps)   |  |
| Interface                   | 1/1 channel In/Out  |  |
| <b>Intelligent Function</b> |   |  |
| Auto Tracking               | Single-scene, multiple-scene, panorama-scene  |  |
| IVS                         | Tripwire, Intrusion, Cross Warning Zone, Perimeter Protection, Loitering Detection, Abandoned Object Detection, Missing Object Detection, Illegal Parking, Fast Moving and etc. |  |
| Tracking Trigger Mode       | Manual / Auto (alarm triggered)   |  |
| Tracking Trigger Event      | Targeting, Zoom, Tracking, Recording, Snapshot, Alarm and etc.  |  |
| <b>Network</b>              |   |  |
| Ethernet                    | RJ-45 (10/100Base-T)  |  |
| Protocol                    | IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x                           |  |
| Compatibility               | ONVIF PSIA CGI  |  |
| Max. User Access            | 20 users  |  |
| Smart Phone                 | iPhone, iPad, Android, Windows Phone  |  |
| <b>Auxiliary Interface</b>  |   |  |
| Memory Slot                 | Micro SD, Max 64GB  |  |
| RS485                       | 1   |  |
| Alarm                       | 7/2 channel In/Out  |  |
| <b>General</b>              |   |  |
| Power Supply                | AC24V/3A(±25%), Hi-PoE  |  |
| Power Consumption           | 24W, 38W (IR on, Heater on)   |  |
| Working Environment         | -40°C ~ 70°C / Less than 90% RH   |  |
| Ingress Protection          | IP67  |  |
| Wiper                       | Yes   |  |
| Dimensions                  | Φ252mm×384.3mm  |  |
| Weight                      | 6.8kg   |  |



# DH-NVR608/608R-128-4K

## 128 Channel Super 4K Network Video Recorder



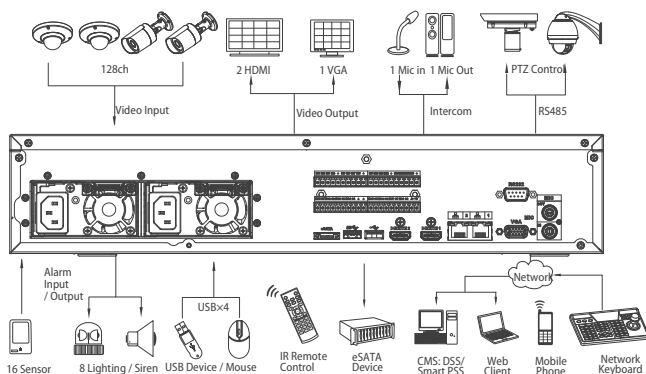
### ONVIF



### Features

- Max 128 channel IP cameras connection
- Max 384Mbps incoming bandwidth
- Up to 12Mp resolution preview & playback
- 1 VGA+2 HDMI
- Support RAID 0/1/5/6/10/50/60
- Support N+M hot standby
- Support iSCSI to expand storage space
- Compatible with Dahua SDK and seamless integrated to other platforms
- Support Multi-brand network cameras: Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek and etc.
- ONVIF Version 2.4 conformance
- Redundant power supply module adopted (DH-NVR608R-128-4K)

### System Connection



### Technical Specifications

| Model                              | DH-NVR608-128-4K  | DH-NVR608R-128-4K               |
|------------------------------------|---|---------------------------------|
| <b>System</b>                      |   |                                 |
| Main Processor                     | Intel Processors  |                                 |
| Operating System                   | LINUX   |                                 |
| <b>Video &amp; Audio</b>           |   |                                 |
| IP Camera Input                    | 128 channel   |                                 |
| Two-way Talk                       | 1channel Input, 1channel Output, RCA  |                                 |
| <b>Display</b>                     |   |                                 |
| Interface                          | 2 HDMI (up to 3840×2160), 1 VGA   |                                 |
| Resolution                         | 3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768   |                                 |
| Multi-screen Display               | The 1st screen: 1/4/8/9/16/25/36<br>The 2nd screen: 1/4/8/9/16  |                                 |
| OSD                                | Camera title, Time, Video loss, Camera lock, Motion detection, Recording  |                                 |
| <b>Recording</b>                   |   |                                 |
| Compression                        | H.265/H.264/MJPEG   |                                 |
| Resolution                         | 12Mp, 8Mp, 6Mp, 5Mp, 3Mp, 1080P, 1.3Mp, 720P & etc.   |                                 |
| Record Rate                        | 256Mbps   |                                 |
| Bit Rate                           | 1~ 20Mbps   |                                 |
| Record Mode                        | Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss), Alarm), Stop   |                                 |
| Record Interval                    | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec  |                                 |
| <b>Video Detection &amp; Alarm</b> |   |                                 |
| Trigger Events                     | Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips   |                                 |
| Video Detection                    | Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank   |                                 |
| Alarm Input                        | 16ch, low level effective, green terminal interface   |                                 |
| Relay Output                       | 8ch, Relay contact(1A@24VDC), NO/NC programmable, green terminal interface  |                                 |
| <b>Playback &amp; Backup</b>       |   |                                 |
| Playback                           | 128Mbps in Raid 5 mode<br>64Mbps in single HDD mode   |                                 |
| Search Mode                        | Time/Date, Alarm, MD & Exact search (accurate to second), Smart search  |                                 |
| 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/Internal SATA burner/eSATA Device  |                                 |
| <b>Network</b>                     |   |                                 |
| Interface                          | 2 RJ-45 ports (10/100/1000Mbps)   |                                 |
| Ethernet Port                      | 2 Ethernet ports joint working or 2 independent 1000Mbps Ethernet ports   |                                 |
| Network Function                   | HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS and etc.)      |                                 |
| Max. User Access                   | 128 users   |                                 |
| Smart Phone                        | iPhone, iPad, Android, Windows Phone  |                                 |
| <b>Storage</b>                     |   |                                 |
| Internal HDD                       | 8 SATA III ports, up to 48TB  |                                 |
| HDD Mode                           | Single, Raid 0/1/5/6/10/50/60 (Support global HDD hot-spare)  |                                 |
| <b>Auxiliary Interface</b>         |   |                                 |
| USB                                | 4 USB ports(3 USB2.0, 1 USB3.0)   |                                 |
| eSATA                              | 1 eSATA port  |                                 |
| RS232                              | 1 port, For PC communication & keyboard   |                                 |
| RS485                              | 1 port, For PTZ control   |                                 |
| <b>General</b>                     |   |                                 |
| Power Supply                       | AC110V~240V, 50~60Hz  | AC100V~240V, 50~60Hz, Redundant |
| Power Consumption                  | <40W (Without HDD)  |                                 |
| Working Environment                | -10°C~+55°C/10%~90%RH/86~106kpa   |                                 |
| Dimension(W×D×H)                   | 486mm(with ears)×454.9mm ×91mm  | 486mm(with ears)×471.8mm ×91mm  |
| Weight                             | 9kg (without HDD)   |                                 |
| Installation                       | 19" Rack-mounted  |                                 |

# DH-NVR608-32-4K

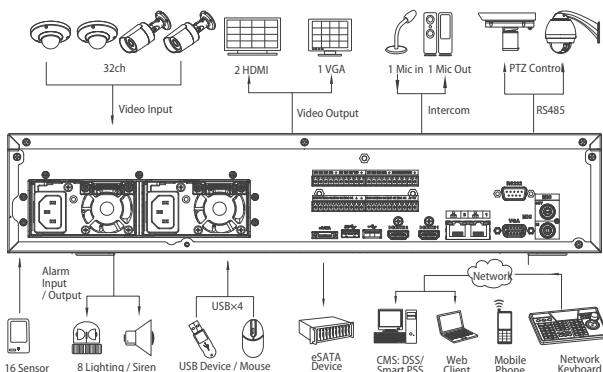
## 32 Channel Super 4K Network Video Recorder



### Features

- Max 32 channel IP cameras connection
- Max 384Mbps incoming bandwidth
- Up to 12Mp resolution preview& playback
- 1 VGA+2 HDMI
- Support RAID 0/1/5/6/10/50/60
- Support N+M hot standby
- Support iSCSI to expand storage space
- Compatible with Dahua SDK and seamless integrated to other platforms
- Support Multi-brand network cameras: Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek and etc.
- ONVIF Version 2.4 conformance

### System Connection

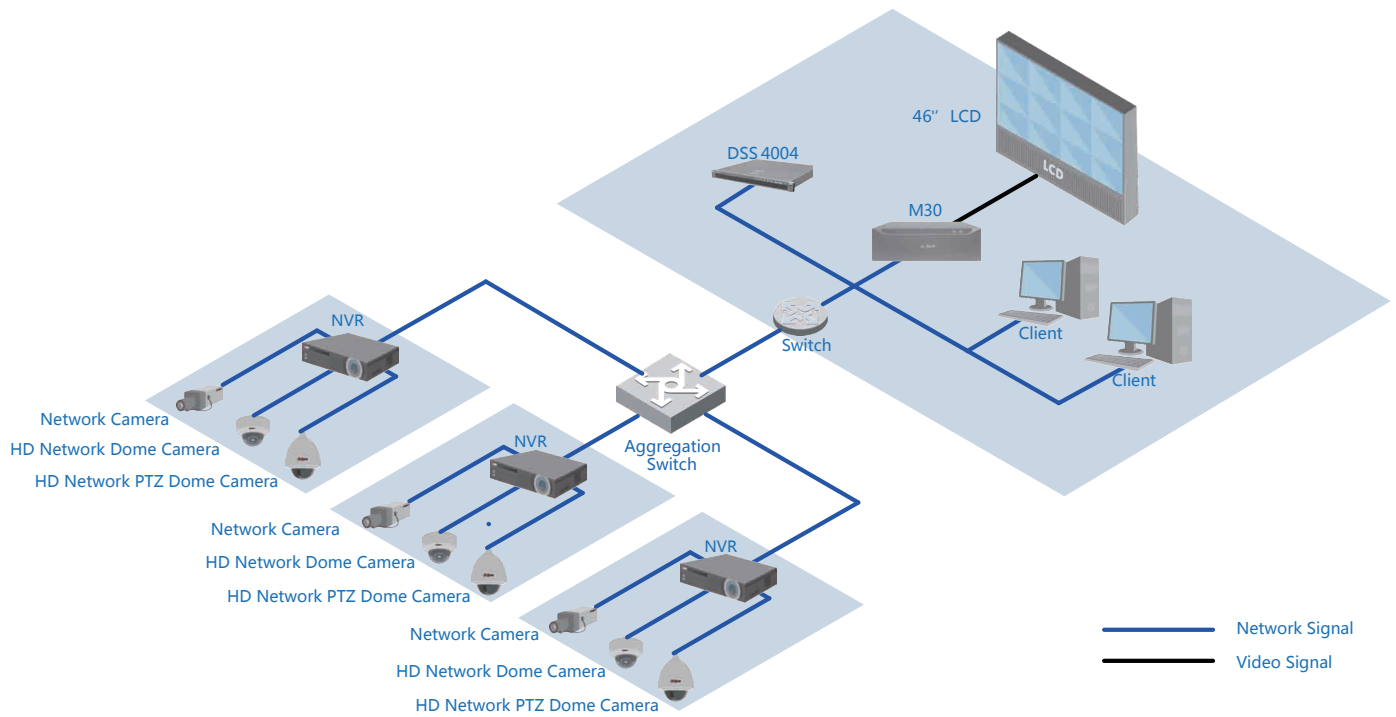


### Technical Specifications

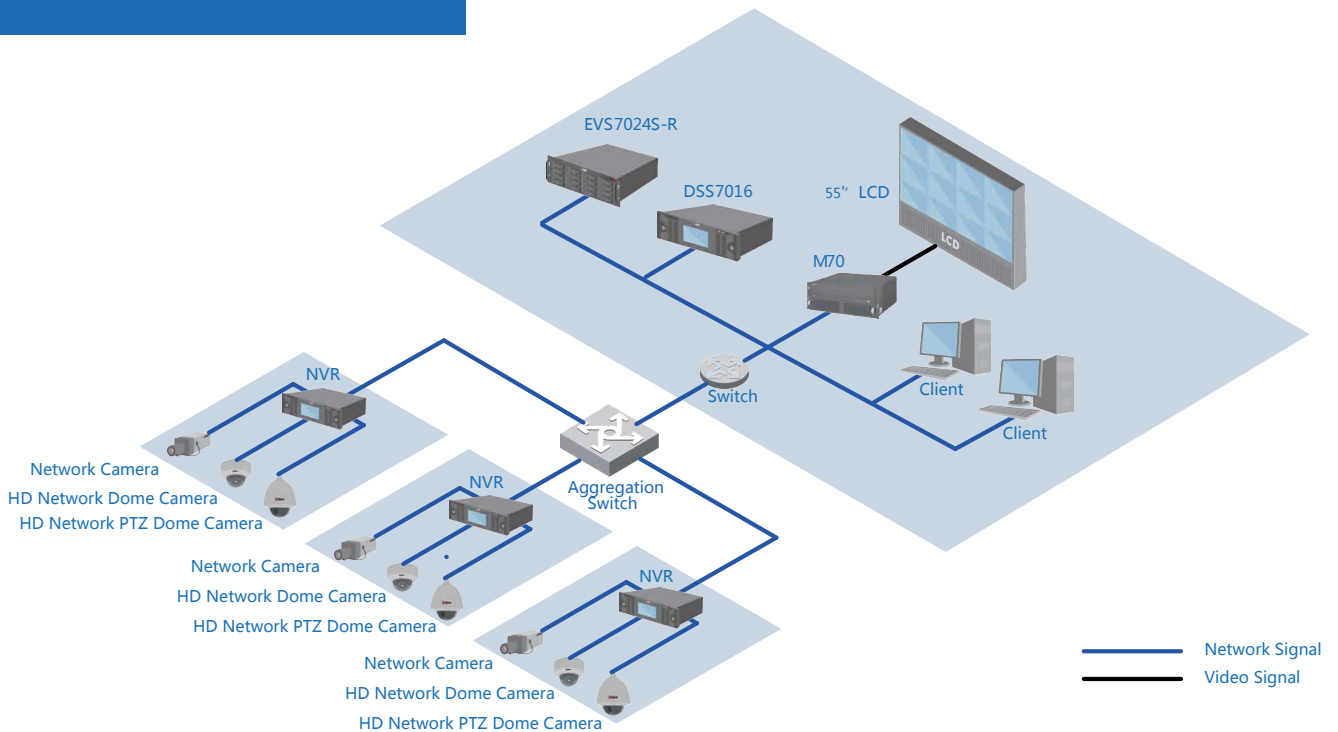
| Model                              | DH-NVR608-32-4K   |
|------------------------------------|---|
| <b>System</b>                      |   |
| Main Processor                     | Intel Processors  |
| Operating System                   | LINUX   |
| <b>Video&amp; Audio</b>            |   |
| IP Camera Input                    | 32 channel  |
| Two-way Talk                       | 1channel Input, 1channel Output, RCA  |
| <b>Display</b>                     |   |
| Interface                          | 2 HDMI (up to 3840×2160), 1 VGA   |
| Resolution                         | 3840×2160, 1920×1080, 1280×1024, 1280×720, 1024×768   |
| Multi-screen Display               | The 1 <sup>st</sup> screen: 1/4/8/9/16/25/36<br>The 2 <sup>nd</sup> screen: 1/4/8/9/16  |
| OSD                                | Camera title, Time, Video loss, Camera lock, Motion detection, Recording  |
| <b>Recording</b>                   |   |
| Compression                        | H.265/H.264/MJPEG   |
| Resolution                         | 12Mp, 8Mp, 6Mp, 5Mp, 3Mp, 1080P, 1.3Mp, 720P & etc.   |
| Record Rate                        | 256Mbps   |
| Bit Rate                           | 1~ 20Mbps   |
| Record Mode                        | Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss), Alarm), Stop   |
| Record Interval                    | 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec  |
| <b>Video Detection &amp; Alarm</b> |   |
| Trigger Events                     | Recording, PTZ, Tour, Alarm out, Video Push, Email, FTP, Snapshot, Buzzer & Screen tips   |
| Video Detection                    | Motion Detection, MD Zones: 396(22×18), Video Loss & Camera Blank   |
| Alarm Input                        | 16ch, low level effective, green terminal interface   |
| Relay Output                       | 8ch, Relay contact(1A@24VDC), NO/NC programmable, green terminal interface  |
| <b>Playback &amp; Backup</b>       |   |
| Playback                           | 128Mbps in Raid 5 mode<br>64Mbps in single HDD mode   |
| Search Mode                        | Time/Date, Alarm, MD & Exact search (accurate to second), Smart search  |
| 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/Internal SATA burner/eSATA Device  |
| <b>Network</b>                     |   |
| Interface                          | 2 RJ-45 ports (10/100/1000Mbps)   |
| Ethernet Port                      | 2 Ethernet ports joint working or 2 independent 1000Mbps Ethernet ports   |
| Network Function                   | HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search(Support Dahua IP camera, DVR, NVS and etc.)      |
| Max. User Access                   | 128 users   |
| Smart Phone                        | iPhone, iPad, Android, Windows Phone  |
| <b>Storage</b>                     |   |
| Internal HDD                       | 8 SATA III ports, up to 48TB  |
| HDD Mode                           | Single, Raid 0/1/5/6/10/50/60 (Support global HDD hot-spare)  |
| <b>Auxiliary Interface</b>         |   |
| USB                                | 4 USB ports(3 USB2.0, 1 USB3.0)   |
| eSATA                              | 1 eSATA port  |
| RS232                              | 1 port, For PC communication& keyboard  |
| RS485                              | 1 port, For PTZ control   |
| <b>General</b>                     |   |
| Power Supply                       | AC110V~240V, 50~60Hz  |
| Power Consumption                  | <40W (Without HDD)  |
| Working Environment                | -10°C~+55°C/10%~90%RH/86~106kpa   |
| Dimension(W×D×H)                   | 482mm×450mm×91mm  |
| Weight                             | <9kg (without HDD)  |

\* Takes NVR 608-32-4K as an example

# 500 Channels



# 2000 Channels



## Smart Center

### Video-Wall

#### DHL460UT(S)-E/DHL550UT(S)-E



##### FHD LCD Display Unit

- 46"/55" industrial 7×24 LCD panel
- LED backlight
- 700cd/㎡ (450cd/㎡ for S model)
- 5.7mm physical seam, 3.5mm optional (55")
- CVBS×2/HDMI×1/DVI×1/VGA×1 input, CVBS×2 output

#### M30-3U



##### Image Controller

- OS-free, virus-free, high stability
- 9CH HD output, 16CH CVBS input, max 8CH VGA input
- Support max 13CH@1080P decoding capability
- Easy video-wall configuration, support roam, split, overlay, zoom and etc.
- Integrated with Smart PSS, DSS7016

#### M70-4U



##### Multi-service Matrix Platform

- 4U 19" ATCA industry box
- Hot-swappable service card
- 320ch@D1 or 80ch@1080P encoding (full configured)
- 640ch@D1 or 160ch@1080P decoding (full configured)
- Maximum 40 output ports
- Signal Input: Analog/Digital, HD/SD mix input
- Support roam, overlay, zoom and etc.

### Software

#### DSS4004/7016D



##### Digital Surveillance System

- Max support 2000-ch input / 500-device input (500/200 for DSS4004)
- 700Mbps for local storage & 700Mbps for transfer capability (100/300 for DSS4004)
- Up to 10000 account management & 1000 online users
- Support Google and Raster Map
- Support IPC, DVR, NVR, NVS, IPC, NVD and etc.

#### Smart PSS



##### Pro Surveillance System

- Max 256 devices connection
- Max 64 (8x8) video live preview
- Support customized splitting
- Support DVR, SVR, NVR, NVS, IPC, NVD and etc.
- Support Multi-screen
- Used for central monitoring system



#### DMSS



##### Mobile Phone Surveillance Software

- For iOS: iPhone (iDMSS Plus) & iPad (iDMSS HD)
- For Android: Phone & Kindle Fire (gDMSS Plus), Tablet (gDMSS HD)
- For Windows Phone8 (wDMSS Plus)
- For Windows Phone 7 or below (DMSS)
- Main/Extra stream Preview & Playback, DDNS sync (Cloud Device)
- Multi-language, Push Notification, Remote Configuration, HDD report, E-map
- Local Recording, Alarm out, Favorites Group, Color Setting, QR Code Scanning

### Accessories

#### KBD1000/KB1000/NKB1000



##### Network Keyboard

- For DVR, NVS, PTZ Dome Camera
- RS232, RS485 & Network Connections
- Joystick Control & PTZ Functions
- Connect to smart PSS via USB

#### PFT1200/PFT1300



##### High POE Midspan

- Output power 60w;
- Could cascade two POE Passive Extenders to cover the range of 300m

##### POE Passive Extender

- POE-in port, POE-out port, POE-for IPC port;
- support rail mount, wall mount, junction boxmount

#### PFS3106-4P-60/S1000-8TP



##### 4-port POE Switch

- IEEE802.3af, IEEE802.3at standards;
- Total output power 60w

##### 8-port POE Switch

- IEEE802.3af, IEEE802.3at standards, high POE;
- Total output power 120w

