

# Superior Quad HD / Full HD **Analog Solution**



## WISeNET HD+

## 4MP Camera



HCB-7000



HCO-7070R



HCO-7010R/20R/30R



HCD-7070R



HCD-7010R/20R/30R



HCV-7070R



HCV-7010R/20R/30R

## 2MP Camera



HCB-6001



HCB-6000



HCZ-6320



SCB-6003



HCO-6080R/6070R



SCO-6083R



SCO-6023R



HCD-6080R/6070R



HCV-6080R/6070R



HCP-6320HA/6320A



SCD-6083R



SCD-6023R



SCD-6013



SCV-6083R



SCV-6023R

## DVR

### 16CH DVR



HRD-1642



HRD-1641

### 8CH DVR



HRD-842

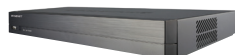


HRD-841

### 4CH DVR



HRD-442



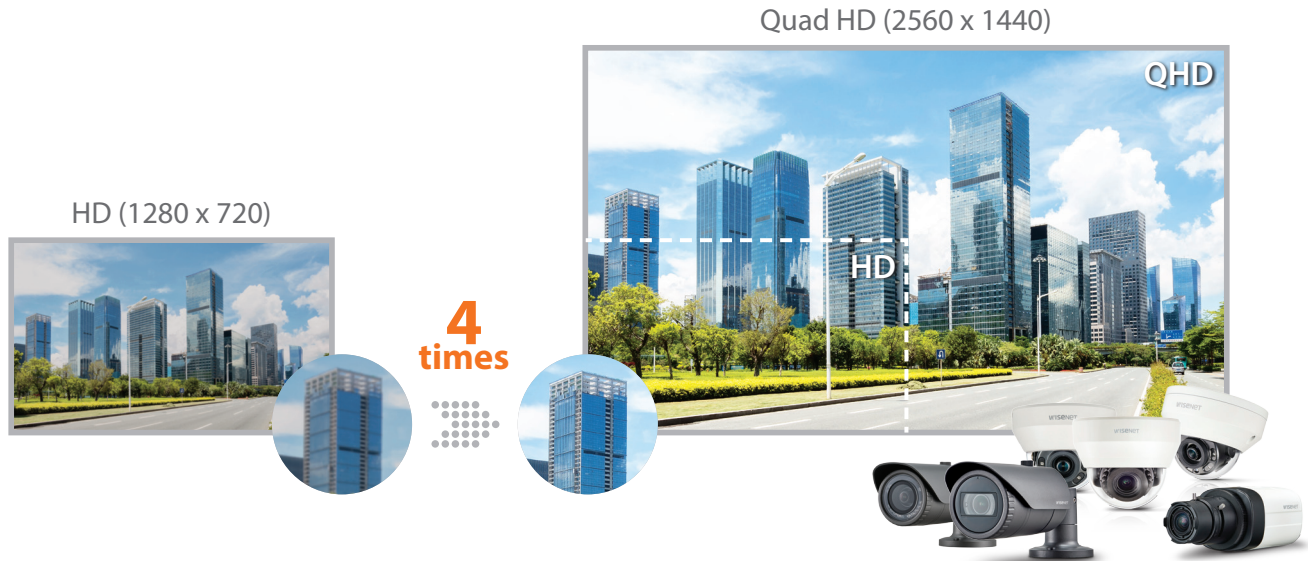
HRD-440

## Experience the superior clarity (Max. 4MP)

The new Wisenet HD+ series supports 4MP (2560 x 1440) and 2MP (1920 x 1080) resolution with superior clarity down to the last detail. This feature not only provides a better performance than the existing analog system, but also supports the same resolution as the network system without experiencing any delays. The images it delivers are much clearer and more vivid than before.

4MP Wisenet HD+ series is ideal for mid to large-sized businesses and projects requiring a highly reliable surveillance system.

In addition, the cameras can transmit 30fps with 4MP (QHD) video.



## Clearer images with WDR 120dB, defog and noise reduction

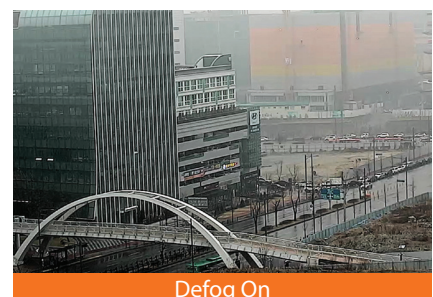
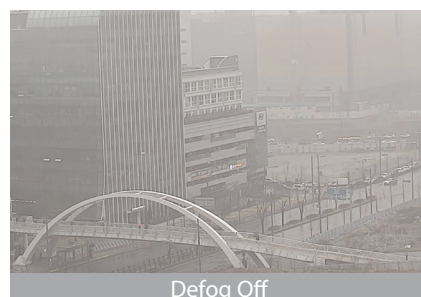
Wisenet HD+ 2MP cameras provide clearer images with WDR 120dB even in backlight environments. Hanwha Techwin's defogging technology delivers optimal results in areas where constant monitoring is required, such as in airports and ports.

(Wisenet HD+ 2MP cameras support)

### WDR 120dB



### Defog



## Transmission distance up to 500m

The Wisenet HD+ series can transmit 4MP / 2MP video and audio up to 500m by using a single coaxial cable without any delays. This product is an excellent solution that removes the need for a short transmission distance found in typical analog type products.



## Max. 4K(3840 x 2160) monitor support with HDMI cable

Wisenet HD+ DVR provides 4K (3840 x 2160) resolution with HDMI cable, enabling four 2MP AHD camera images to be monitored in four split screens in 4K resolution.



## Easy and flexible upgrade solution

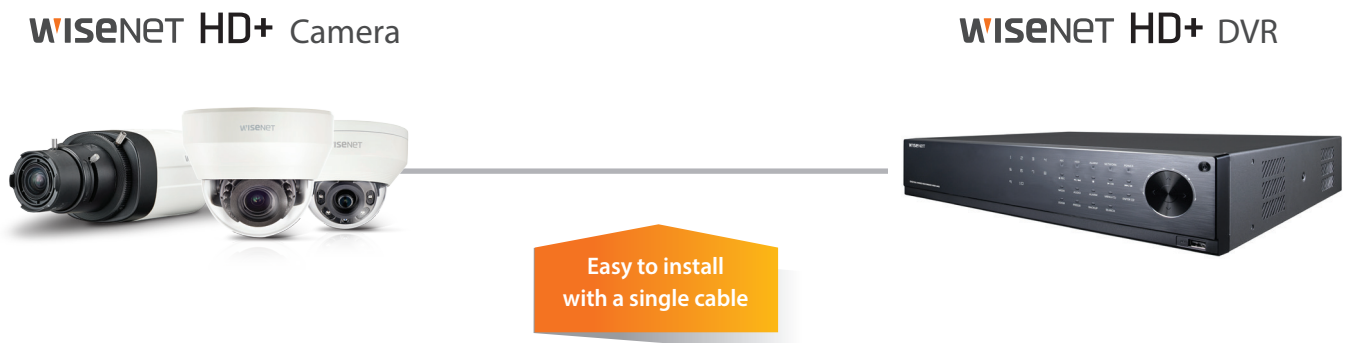
As the DVR featuring the AHD technology is compatible with both the Wisenet HD+ camera and general analog cameras, the user can avoid the expense of additional adaptors or changing their system.

When upgrading to the Wisenet HD+ system, you don't need to purchase an additional cable separately as it is possible to transmit full-HD images via the existing cable, which also saves money.



## Easy Installation

Compared to a complex network system, AHD technology is easy to install while it provides 2MP high quality image. As it uses the same installation procedure as the existing analog system and does not require any specific prior knowledge, you can save time and effort compared to a network system.



# Comparison Chart



Wisenet HD+  
HCB-7000

Wisenet HD+  
HCO-7070R

Wisenet HD+  
HCO-7010R/20R/30R

Wisenet HD+  
HCD-7070R

Wisenet HD+  
HCD-7010R/20R/30R

Wisenet HD+  
HCV-7070R

Wisenet HD+  
HCV-7010R/20R/30R

| TV Lines / Resolutions |                             | 4MP                                                                                           | 4MP                                                                                                             | 4MP                                                                                                                                                       | 4MP                                                                                                             | 4MP                                                                                                                                                       | 4MP                                                                                                             | 4MP                                                                                                                                                       |
|------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| VIDEO                  | Imaging Device              | 1/3" 4M CMOS                                                                                  | 1/3" 4M CMOS                                                                                                    | 1/3" 4M CMOS                                                                                                                                              | 1/3" 4M CMOS                                                                                                    | 1/3" 4M CMOS                                                                                                                                              | 1/3" 4M CMOS                                                                                                    | 1/3" 4M CMOS                                                                                                                                              |
|                        | Horizontal Resolution       | 2560 x 1440                                                                                   | 2560 x 1440                                                                                                     | 2560 x 1440                                                                                                                                               | 2560 x 1440                                                                                                     | 2560 x 1440                                                                                                                                               | 2560 x 1440                                                                                                     | 2560 x 1440                                                                                                                                               |
|                        | Min. Illumination           | Color : 0.16Lux<br>B/W : 0.009Lux                                                             | Color : 0.16Lux<br>B/W : 0Lux (IR LED on)                                                                       | Color : 0.26Lux (HCO-7010R)<br>0.27Lux (HCO-7020R/7030R)<br>B/W : 0Lux (IR LED on)                                                                        | Color : 0.16Lux<br>B/W : 0Lux (IR LED on)                                                                       | Color : 0.26Lux (HCD-7010R)<br>0.27Lux (HCD-7020R/7030R)<br>B/W : 0Lux (IR LED on)                                                                        | Color : 0.16Lux<br>B/W : 0Lux (IR LED on)                                                                       | Color : 0.26Lux (HCV-7010R)<br>0.27Lux (HCV-7020R/7030R)<br>B/W : 0Lux (IR LED on)                                                                        |
|                        | Lens                        | -                                                                                             | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                 | 2.8mm Fixed (F1.8) (HCO-7010R)<br>4.0mm Fixed (F2.0) (HCO-7020R)<br>6.0mm Fixed (F2.0) (HCO-7030R)                                                        | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                 | 2.8mm Fixed (F1.8) (HCD-7010R)<br>4.0mm Fixed (F2.0) (HCD-7020R)<br>6.0mm Fixed (F2.0) (HCD-7030R)                                                        | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                 | 2.8mm Fixed (F1.8) (HCV-7010R)<br>4.0mm Fixed (F2.0) (HCV-7020R)<br>6.0mm Fixed (F2.0) (HCV-7030R)                                                        |
|                        | IR Viewable Length          | -                                                                                             | 30m (98.43ft)                                                                                                   | 20m (65.62ft) (HCO-7010R)<br>25m (82.02ft) (HCO-7020R)<br>30m (98.43ft) (HCO-7030R)                                                                       | 20m (65.62ft)                                                                                                   | 20m (65.62ft) (HCD-7010R)<br>25m (82.02ft) (HCD-7020R)<br>30m (98.43ft) (HCD-7030R)                                                                       | 30m (98.43ft)                                                                                                   | 20m (65.62ft) (HCV-7010R)<br>25m (82.02ft) (HCV-7020R)<br>30m (98.43ft) (HCV-7030R)                                                                       |
|                        | Angular Field of View       | -                                                                                             | H : 93.48° (Wide) ~ 29.44° (Tele) /<br>V : 50.47° (Wide) ~ 16.64° (Tele) /<br>D : 112.53° (Wide) ~ 33.7° (Tele) | H : 107.48° / V : 59.67° / D : 122.01° (HCO-7010R)<br>H : 78.22° / V : 41.21° / D : 87.91° (HCO-7020R)<br>H : 49.01° / V : 27.61° / D : 55.6° (HCO-7030R) | H : 93.48° (Wide) ~ 29.44° (Tele) /<br>V : 50.47° (Wide) ~ 16.64° (Tele) /<br>D : 112.53° (Wide) ~ 33.7° (Tele) | H : 107.48° / V : 59.67° / D : 122.01° (HCD-7010R)<br>H : 78.22° / V : 41.21° / D : 87.91° (HCD-7020R)<br>H : 49.01° / V : 27.61° / D : 55.6° (HCD-7030R) | H : 93.48° (Wide) ~ 29.44° (Tele) /<br>V : 50.47° (Wide) ~ 16.64° (Tele) /<br>D : 112.53° (Wide) ~ 33.7° (Tele) | H : 107.48° / V : 59.67° / D : 122.01° (HCV-7010R)<br>H : 78.22° / V : 41.21° / D : 87.91° (HCV-7020R)<br>H : 49.01° / V : 27.61° / D : 55.6° (HCV-7030R) |
|                        | Focus Control               | Manual                                                                                        | Manual                                                                                                          | Fixed                                                                                                                                                     | Manual                                                                                                          | Fixed                                                                                                                                                     | Manual                                                                                                          | Fixed                                                                                                                                                     |
|                        | Pan / Tilt / Rotate         | -                                                                                             | -                                                                                                               | -                                                                                                                                                         | 0° ~ 350° / 0° ~ 63° / 0° ~ 355°                                                                                | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                                                          | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                                                          |
| OPERATIONAL            | Day & Night                 | True (ICR)                                                                                    | True (ICR)                                                                                                      | True (ICR)                                                                                                                                                | True (ICR)                                                                                                      | True (ICR)                                                                                                                                                | True (ICR)                                                                                                      | True (ICR)                                                                                                                                                |
|                        | Backlight Compensation      | BLC / HLC / DWDR                                                                              | BLC / HLC / DWDR                                                                                                | BLC / HLC / DWDR                                                                                                                                          | BLC / HLC / DWDR                                                                                                | BLC / HLC / DWDR                                                                                                                                          | BLC / HLC / DWDR                                                                                                | BLC / HLC / DWDR                                                                                                                                          |
|                        | Digital Noise Reduction     | 2D DNR                                                                                        | 2D DNR                                                                                                          | 2D DNR                                                                                                                                                    | 2D DNR                                                                                                          | 2D DNR                                                                                                                                                    | 2D DNR                                                                                                          | 2D DNR                                                                                                                                                    |
|                        | Motion Detection            | Support                                                                                       | Support                                                                                                         | Support                                                                                                                                                   | Support                                                                                                         | Support                                                                                                                                                   | Support                                                                                                         | Support                                                                                                                                                   |
|                        | Privacy Masking             | 2 Zones                                                                                       | 2 Zones                                                                                                         | 2 Zones                                                                                                                                                   | 2 Zones                                                                                                         | 2 Zones                                                                                                                                                   | 2 Zones                                                                                                         | 2 Zones                                                                                                                                                   |
| FEATURES               | Alarm I/O                   | MD Output 1                                                                                   | MD Output 1                                                                                                     | -                                                                                                                                                         | MD Output 1                                                                                                     | -                                                                                                                                                         | MD Output 1                                                                                                     | -                                                                                                                                                         |
|                        | Communication               | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)<br>RS-485 : Samsung T, Pelco D/P | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                    | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                                                              | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                    | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                                                              | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                    | AHD : ACP (AHD Coax Protocol),<br>CVBS : Pelco-C (Coaxitron)                                                                                              |
|                        | Environment Protection      | -                                                                                             | IP66, IK10                                                                                                      | IP66, IK10                                                                                                                                                | -                                                                                                               | -                                                                                                                                                         | IP66, IK10                                                                                                      | IP66, IK10                                                                                                                                                |
|                        | Operating Temperature       | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                             | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)                                          | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)                                                                                    | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                               | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                                                         | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)                                          | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)                                                                                    |
|                        | Power                       | Max. 3.6W<br>(24V AC & 12V DC)                                                                | Max. 5.8W<br>(24V AC & 12V DC)                                                                                  | Max. 5.0W<br>(12V DC)                                                                                                                                     | Max. 5.8W<br>(24V AC & 12V DC)                                                                                  | Max. 5.0W<br>(12V DC)                                                                                                                                     | Max. 5.8W<br>(24V AC & 12V DC)                                                                                  | Max. 5.0W<br>(12V DC)                                                                                                                                     |
|                        | Dimensions (WxHxD) / Weight | 68.4 x 59.6 x 92.7mm<br>(2.69" x 2.35" x 3.65")<br>186g (0.41 lb)                             | Ø78.0 x 259.8mm<br>(Ø3.07" x 10.23")<br>(Without sunshield)<br>914g (2.02 lb)                                   | Ø70.0 x 246.0 mm<br>(Ø2.76" x 9.69")<br>(Without sunshield)<br>670g (1.48 lb)                                                                             | Ø119.8 x 98.5mm<br>(Ø4.72" x 3.88")<br>320g (0.71 lb)                                                           | Ø110.1 x 86.1mm<br>(Ø4.33" x 3.39")<br>240g (0.53 lb)                                                                                                     | Ø137 x 106.1mm<br>(Ø5.39" x 4.18")<br>715g (1.58 lb)                                                            | Ø120.3 x 91.7mm<br>(Ø4.74" x 3.61")<br>510g (1.12 lb)                                                                                                     |
|                        | Additional Features         | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                      | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                        | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                                                                  | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                        | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                                                                  | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                        | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                                                                  |



**Wisenet HD+  
HCB-6001**



**Wisenet HD+  
HCB-6000**



**Wisenet HD+  
HCZ-6320**



**Wisenet HD+  
HCO-6080R**



**Wisenet HD+  
HCV-6070R**

| TV Lines / Resolutions |                                | 2MP                                                                                                                                               | 2MP                                                                                                                                                                                                     | 2MP                                                                                                              | 2MP                                                                                                                   | 2MP                                                                                                                   |
|------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| VIDEO                  | Imaging Device                 | 1/2.8" 2M CMOS                                                                                                                                    | 1/2.8" 2M CMOS                                                                                                                                                                                          | 1/2.8" 2.38M CMOS                                                                                                | 1/2.8" 2M CMOS                                                                                                        | 1/2.8" 2M CMOS                                                                                                        |
|                        | Horizontal Resolution          | 1920 x 1080                                                                                                                                       | 1920 x 1080                                                                                                                                                                                             | 1920 x 1080                                                                                                      | 1920 x 1080                                                                                                           | 1920 x 1080                                                                                                           |
|                        | Min. Illumination              | Color: 0.09Lux<br>B/W: 0.009Lux                                                                                                                   | Color: 0.09Lux<br>B/W: 0.009Lux                                                                                                                                                                         | Color: 0.2Lux<br>B/W: 0.01Lux                                                                                    | Color: 0.11 Lux<br>B/W: 0 Lux (IR LED on)                                                                             | Color: 0.11 Lux<br>B/W: 0 Lux (IR LED on)                                                                             |
|                        | Lens                           | -                                                                                                                                                 | -                                                                                                                                                                                                       | 4.44 ~ 142.6mm (Optical 32x)<br>F1.6(Wide) / F4.4(Tele)                                                          | 3.2 ~ 10mm (3.1x)<br>motorized V/F (F1.6)                                                                             | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                       |
|                        | IR Viewable Length             | -                                                                                                                                                 | -                                                                                                                                                                                                       | -                                                                                                                | 30m (98.43ft)                                                                                                         | 30m (98.43ft)                                                                                                         |
|                        | Angular Field of View          | -                                                                                                                                                 | -                                                                                                                                                                                                       | H: 62.8°(Wide) ~ 2.23°(Tele) /<br>V: 36.80°(Wide) ~ 1.26°(Tele)                                                  | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        |
|                        | Focus Control                  | Simple Focus                                                                                                                                      | Manual                                                                                                                                                                                                  | Auto / Manual / One push                                                                                         | Simple focus (motorized V/F) /<br>Manual                                                                              | Manual                                                                                                                |
|                        | Pan / Tilt / Rotate            | -                                                                                                                                                 | -                                                                                                                                                                                                       | -                                                                                                                | -                                                                                                                     | -                                                                                                                     |
| OPERATIONAL            | Day & Night                    | True (ICR)                                                                                                                                        | True (ICR)                                                                                                                                                                                              | True (ICR)                                                                                                       | True (ICR)                                                                                                            | True (ICR)                                                                                                            |
|                        | Backlight Compensation         | WDR (120dB)                                                                                                                                       | WDR (120dB)                                                                                                                                                                                             | WDR (120dB)                                                                                                      | WDR (120dB)                                                                                                           | WDR (120dB)                                                                                                           |
|                        | Digital Noise Reduction        | SSNRIV                                                                                                                                            | SSNRIV                                                                                                                                                                                                  | SSNRIII                                                                                                          | SSNRIV                                                                                                                | SSNRIV                                                                                                                |
|                        | Motion Detection               | Support                                                                                                                                           | Support                                                                                                                                                                                                 | Support                                                                                                          | Support                                                                                                               | Support                                                                                                               |
|                        | Privacy Masking                | 4 Zones                                                                                                                                           | 8 Zones                                                                                                                                                                                                 | 12 Zones                                                                                                         | 8 Zones                                                                                                               | 8 Zones                                                                                                               |
| FEATURES               | Alarm I/O                      | 0 / 1, External D/N 1                                                                                                                             | 0 / 1, External D/N 1                                                                                                                                                                                   | -                                                                                                                | MD Output 1                                                                                                           | MD Output 1                                                                                                           |
|                        | Communication                  | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>RS-485: Samsung T/E,<br>Pelco D/P, Panasonic Bosch,<br>Honeywell, Vicon, GE, AD | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol),<br>RS-485: Samsung T,<br>Pelco D/P, Panasonic Bosch,<br>Honeywell, Vicon, GE, AD | AHD: ACP<br>(AHD Coax Protocol),<br>RS-485: Samsung T/E, Pelco-D/P,<br>Panasonic, Bosch,<br>Honeywell, Vicon, AD | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) |
|                        | Environment Protection         | -                                                                                                                                                 | -                                                                                                                                                                                                       | -                                                                                                                | IP66, IK10                                                                                                            | IP66, IK10                                                                                                            |
|                        | Operating Temperature          | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                                                 | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                                                                                                       | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C (+14°F)                                                   | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C (+14°F)                                                   |
|                        | Power                          | Max. 6.0W<br>(24V AC & 12V DC)                                                                                                                    | Max. 3.5W<br>(24V AC & 12V DC)                                                                                                                                                                          | Max. 6.0W<br>(12V DC)                                                                                            | Max. 6.0W<br>(24V AC & 12V DC)                                                                                        | Max. 6.0W<br>(24V AC & 12V DC)                                                                                        |
|                        | Dimensions (WxHxD) /<br>Weight | 73.1x67.2x123.9mm<br>(2.88"x2.65"x4.88")<br>287g (0.63 lb)                                                                                        | 68.4x59.6x92.7mm<br>(2.69"x2.35"x3.65")<br>186g (0.41 lb)                                                                                                                                               | 72.0x60x137mm<br>(2.83"x2.36"x5.39")<br>476g (1.05 lb)                                                           | Ø78.0x259.8mm<br>(Ø3.07"x10.23")<br>(Without sunshield)<br>948g (2.09 lb)                                             | Ø78.0x259.8mm<br>(Ø3.07"x10.23")<br>(Without sunshield)<br>914g (2.02 lb)                                             |
|                        | Additional Features            | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                                                          | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                                                                                                                | Defog                                                                                                            | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              |

# Comparison Chart



WISENET HD+  
HCD-6080R



WISENET HD+  
HCD-6070R



WISENET HD+  
HCV-6080R



WISENET HD+  
HCV-6070R



WISENET HD+  
HCP-6320HA/6320A

| TV Lines / Resolutions |                             | 2MP                                                                                                                   | 2MP                                                                                                                   | 2MP                                                                                                                   | 2MP                                                                                                                   | 2MP                                                                                                                                           |
|------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| VIDEO                  | Imaging Device              | 1/2.8" 2M CMOS                                                                                                        | 1/2.8" 2M CMOS                                                                                                        | 1/2.8" 2M CMOS                                                                                                        | 1/2.8" 2M CMOS                                                                                                        | 1/2.8" 2.38M CMOS                                                                                                                             |
|                        | Horizontal Resolution       | 1920 x 1080                                                                                                           | 1920 x 1080                                                                                                           | 1920 x 1080                                                                                                           | 1920 x 1080                                                                                                           | 1920 x 1080                                                                                                                                   |
|                        | Min. Illumination           | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                                               | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                                               | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                                               | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                                               | Color: 0.2Lux<br>B/W: 0.01Lux                                                                                                                 |
|                        | Lens                        | 3.2 ~ 10mm (3.1x)<br>motorized V/F (F1.6)                                                                             | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                       | 3.2 ~ 10mm (3.1x)<br>motorized V/F (F1.6)                                                                             | 3.2 ~ 10mm (3.1x)<br>V/F (F1.6)                                                                                       | 4.44 ~ 142.6mm (Optical 32x)<br>F1.6(Wide) / F4.4(Tele)                                                                                       |
|                        | IR Viewable Length          | 20m (65.62ft)                                                                                                         | 20m (65.62ft)                                                                                                         | 30m (98.43ft)                                                                                                         | 30m (98.43ft)                                                                                                         | -                                                                                                                                             |
|                        | Angular Field of View       | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        | H: 110.2°(Wide) ~ 32°(Tele) /<br>V: 55.4°(Wide) ~ 18°(Tele) /<br>D: 128.4°(Wide) ~ 36.6°(Tele)                        | H: 62.8°(Wide) ~ 2.23°(Tele) /<br>V: 36.8°(Wide) ~ 1.26°(Tele)                                                                                |
|                        | Focus Control               | Simple focus (motorized V/F) / Manual                                                                                 | Manual                                                                                                                | Simple focus (motorized V/F) / Manual                                                                                 | Manual                                                                                                                | Auto / Manual / One push                                                                                                                      |
|                        | Pan / Tilt / Rotate         | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                      | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                      | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                      | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                                      | 360° Endless / 210° (-15° ~ 195°) / -                                                                                                         |
| OPERATIONAL            | Day & Night                 | True (ICR)                                                                                                            | True (ICR)                                                                                                            | True (ICR)                                                                                                            | True (ICR)                                                                                                            | True (ICR)                                                                                                                                    |
|                        | Backlight Compensation      | WDR (120dB)                                                                                                           | WDR (120dB)                                                                                                           | WDR (120dB)                                                                                                           | WDR (120dB)                                                                                                           | WDR (120dB)                                                                                                                                   |
|                        | Digital Noise Reduction     | SSNRIV                                                                                                                | SSNRIV                                                                                                                | SSNRIV                                                                                                                | SSNRIV                                                                                                                | SSNRIII                                                                                                                                       |
|                        | Motion Detection            | Support                                                                                                               | Support                                                                                                               | Support                                                                                                               | Support                                                                                                               | Support                                                                                                                                       |
|                        | Privacy Masking             | 8 Zones                                                                                                               | 8 Zones                                                                                                               | 8 Zones                                                                                                               | 8 Zones                                                                                                               | 32 Zones                                                                                                                                      |
| FEATURES               | Alarm I/O                   | MD Output 1                                                                                                           | MD Output 1                                                                                                           | MD Output 1                                                                                                           | MD Output 1                                                                                                           | 4 / 2 (Relay)                                                                                                                                 |
|                        | Communication               | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C (Coaxitron),<br>CCP (CVI Coax Protocol),<br>TCP (TVI Coax Protocol) | AHD: ACP<br>(AHD Coax Protocol),<br>RS-485: Samsung-T/E,<br>Pelco-P/D, Sungjin,<br>Panasonic, Honeywell,<br>AD, Vicon, Bosch, GE              |
|                        | Environment Protection      | -                                                                                                                     | -                                                                                                                     | IP66, IK10                                                                                                            | IP66, IK10                                                                                                            | IP66, IK10 (HCP-6320HA),<br>IK10 (With SHP-3701H)<br>(HCP-6320A)                                                                              |
|                        | Operating Temperature       | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                     | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                                     | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C (+14°F)                                                   | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C (+14°F)                                                   | -50°C ~ +55°C<br>(-58°F ~ +131°F) (HCP-6320HA),<br>-10°C ~ +55°C<br>(+14°F ~ +131°F) (HCP-6320A)                                              |
|                        | Power                       | Max. 6.0W<br>(24V AC & 12V DC)                                                                                        | Max. 4.2W<br>(24V AC & 12V DC)                                                                                        | Max. 4.2W<br>(24V AC & 12V DC)                                                                                        | Max. 4.2W<br>(24V AC & 12V DC)                                                                                        | Max. 24.0W / 65.0W<br>- Heater off / on<br>(24V AC) (HCP-6320HA)<br>Max. 20.0W<br>(24V AC) (HCP-6320A)                                        |
|                        | Dimensions (WxHxD) / Weight | Ø119.8 x 98.5mm<br>(Ø4.72" x 3.88")<br>330g (0.73 lb)                                                                 | Ø119.8 x 98.5mm<br>(Ø4.72" x 3.88")<br>320g (0.71 lb)                                                                 | Ø137 x 106.1mm<br>(Ø5.39" x 4.18")<br>725g (1.60 lb)                                                                  | Ø137 x 106.1mm<br>(Ø5.39" x 4.18")<br>715g (1.58 lb)                                                                  | Ø220.0 x 293.6mm<br>(Ø8.66" x 11.56")<br>3.3Kg (7.28 lb) (SNP-6320HA),<br>Ø152.0 x 218.0mm<br>(Ø5.98" x 8.58")<br>2.2Kg (4.85 lb) (SNP-6320A) |
|                        | Additional Features         | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              | Video Transmission<br>up to 500m<br>(5C2V Coaxial cable)                                                              | Defog                                                                                                                                         |

# Comparison Chart

**WISENET HD+**



**WISENET HD+**

**SCB-6003**

**WISENET HD+**

**SCO-6083R**

**WISENET HD+**

**SCO-6023R**

**WISENET HD+**

**SCD-6083R**

**WISENET HD+**

**SCD-6023R**

**WISENET HD+**

**SCD-6013**

**WISENET HD+**

**SCV-6083R**

**WISENET HD+**

**SCV-6023R**

| TV Lines / Resolutions |                                | 2MP                                                                         | 2MP                                                                                                 | 2MP                                                                          | 2MP                                                                                                 | 2MP                                                              | 2MP                                                              | 2MP                                                                                                 |
|------------------------|--------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| VIDEO                  | Imaging Device                 | 1/3" 2M CMOS                                                                | 1/3" 2M CMOS                                                                                        | 1/3" 2M CMOS                                                                 | 1/3" 2M CMOS                                                                                        | 1/3" 2M CMOS                                                     | 1/3" 2M CMOS                                                     | 1/3" 2M CMOS                                                                                        |
|                        | Horizontal Resolution          | 1920 x 1080                                                                 | 1920 x 1080                                                                                         | 1920 x 1080                                                                  | 1920 x 1080                                                                                         | 1920 x 1080                                                      | 1920 x 1080                                                      | 1920 x 1080                                                                                         |
|                        | Min. Illumination              | Color: 0.04Lux<br>B/W: 0.004Lux                                             | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                             | Color: 0.25Lux<br>B/W: 0Lux (IR LED on)                                      | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                             | Color: 0.25Lux<br>B/W: 0Lux (IR LED on)                          | Color: 0.1Lux<br>B/W: 0.01Lux                                    | Color: 0.11Lux<br>B/W: 0Lux (IR LED on)                                                             |
|                        | Lens                           | -                                                                           | 2.8 ~ 12mm (4.3x)<br>V/F (F1.4)                                                                     | 4mm Fixed (F 2.1)                                                            | 2.8 ~ 12mm (4.3x)<br>V/F (F1.4)                                                                     | 4mm Fixed (F 2.1)                                                | 2.8mm Fixed (F1.8)                                               | 2.8 ~ 12mm (4.3x)<br>V/F (F1.4)                                                                     |
|                        | IR Viewable Length             | -                                                                           | 30m (98.43ft)                                                                                       | 20m (65.62ft)                                                                | 20m (65.62ft)                                                                                       | 20m (65.62ft)                                                    | -                                                                | 30m (98.43ft)                                                                                       |
|                        | Angular Field of View          | -                                                                           | H: 102°(Wide) ~<br>32.2°(Tele) /<br>V: 54°(Wide) ~<br>18.2°(Tele) /<br>D: 121°(Wide) ~<br>38°(Tele) | H: 80.7° / V: 43.5° /<br>D: 95.8°                                            | H: 102°(Wide) ~<br>32.2°(Tele) /<br>V: 54°(Wide) ~<br>18.2°(Tele) /<br>D: 121°(Wide) ~<br>38°(Tele) | H: 80.7° / V: 43.5° /<br>D: 95.8°                                | H: 108.7° / V: 60.6° /<br>D: 125.4°                              | H: 102°(Wide) ~<br>32.2°(Tele) /<br>V: 54°(Wide) ~<br>18.2°(Tele) /<br>D: 121°(Wide) ~<br>38°(Tele) |
|                        | Pan / Tilt / Rotate            | -                                                                           | -                                                                                                   | -                                                                            | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                    | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                 | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                 | 0° ~ 350° / 0° ~ 67° / 0° ~ 355°                                                                    |
| OPERATIONAL            | Day & Night                    | True (ICR)                                                                  | True (ICR)                                                                                          | True (ICR)                                                                   | True (ICR)                                                                                          | True (ICR)                                                       | True (ICR)                                                       | True (ICR)                                                                                          |
|                        | Backlight Compensation         | BLC / HLC / DWDR                                                            | BLC / HLC / DWDR                                                                                    | BLC / HLC / DWDR                                                             | BLC / HLC / DWDR                                                                                    | BLC / HLC / DWDR                                                 | BLC / HLC / DWDR                                                 | BLC / HLC / DWDR                                                                                    |
|                        | Digital Noise Reduction        | SSNRIV                                                                      | SSNRIV                                                                                              | SSNRIV                                                                       | SSNRIV                                                                                              | SSNRIV                                                           | SSNRIV                                                           | SSNRIV                                                                                              |
|                        | Motion Detection               | Support                                                                     | Support                                                                                             | Support                                                                      | Support                                                                                             | Support                                                          | Support                                                          | Support                                                                                             |
|                        | Privacy Masking                | 4 Zones                                                                     | 4 Zones                                                                                             | 4 Zones                                                                      | 4 Zones                                                                                             | 4 Zones                                                          | 4 Zones                                                          | 4 Zones                                                                                             |
|                        | Intelligent Video Analytics    | -                                                                           | -                                                                                                   | -                                                                            | -                                                                                                   | -                                                                | -                                                                | -                                                                                                   |
| FEATURES               | Alarm I/O                      | 0 / 1, External D/N 1                                                       | 0 / 1                                                                                               | -                                                                            | 0 / 1                                                                                               | -                                                                | -                                                                | 0 / 1                                                                                               |
|                        | Communication                  | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron),<br>RS-485 | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron)                                    | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron)             | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron)                                    | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron) | AHD: ACP<br>(AHD Coax Protocol),<br>CVBS: Pelco-C<br>(Coaxitron)                                    |
|                        | Environment Protection         | -                                                                           | IP66, IK10                                                                                          | IP66                                                                         | -                                                                                                   | -                                                                | -                                                                | IP66, IK10                                                                                          |
|                        | Operating Temperature          | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                           | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)                              | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>* Start up above -10°C<br>(+14°F)       | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                                                   | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                | -10°C ~ +55°C<br>(+14°F ~ +131°F)                                | -30°C ~ +55°C<br>(-22°F ~ +131°F)<br>Less than 90% RH<br>* Start up above -10°C<br>(+14°F)          |
|                        | Power                          | Max. 4.2W<br>(24V AC & 12V DC)                                              | Max. 6.0W<br>(24V AC & 12V DC)                                                                      | Max. 4.2W<br>(12V DC)                                                        | Max. 4.2W<br>(24V AC & 12V DC)                                                                      | Max. 4.2W<br>(12V DC)                                            | Max. 2.5w<br>(12V DC)                                            | Max. 4.2W<br>(24V AC & 12V DC)                                                                      |
|                        | Dimensions (WxHxD) /<br>Weight | 68.4 x 59.6 x 92.7mm<br>(2.69" x 2.35" x 3.65")<br>175.5g (0.39 lb)         | Ø78.0 x 260.0mm<br>(Ø3.07" x 10.24")<br>(Without sunshield)<br>922g (2.03 lb)                       | Ø58.6 x 165.2mm<br>(Ø2.31" x 6.50")<br>(Without Sunshield)<br>208g (0.46 lb) | Ø119.8 x 98.8mm<br>(Ø4.72" x 3.89")<br>304g (0.67 lb)                                               | Ø110.0 x 86.0mm<br>(Ø4.33" x 3.39")<br>242g (0.53 lb)            | Ø110.0 x 86.0mm<br>(Ø4.33" x 3.39")<br>231g (0.51 lb)            | Ø137.0 x 106.1mm<br>(Ø5.39" x 4.18")<br>716g (1.58 lb)                                              |
|                        | Additional Features            | Defog                                                                       | Defog                                                                                               | Defog                                                                        | Defog                                                                                               | Defog                                                            | Defog                                                            | Defog                                                                                               |

# Comparison Chart

**WISENET HD+**



**WISENET HD+**  
**HRD-1642**

**WISENET HD+**  
**HRD-1641**

**WISENET HD+**  
**HRD-842**

**WISENET HD+**  
**HRD-841**

**WISENET HD+**  
**HRD-442**

**WISENET HD+**  
**HRD-440**

| Channel     |                         | 16CH                                                                                                      | 16CH                                                                                                      | 8CH                                                                                                       | 8CH                                                                                                       | 4CH                                                                                                       | 4CH                                                                                                       |
|-------------|-------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| OS          | Embedded                | Linux                                                                                                     | Linux                                                                                                     | Linux                                                                                                     | Linux                                                                                                     | Linux                                                                                                     | Linux                                                                                                     |
| Live        | Frame Rate (NTSC / PAL) | 480fps / 400fps                                                                                           | 480fps / 400fps                                                                                           | 240fps / 200fps                                                                                           | 240fps / 200fps                                                                                           | 120fps / 100fps                                                                                           | 120fps / 100fps                                                                                           |
| Recording   | Max. Record Rate        | 240fps@2560 x 1440<br>480fps@1920 x 1080                                                                  | 240fps@2560 x 1440<br>480fps@1920 x 1080                                                                  | 120fps@2560 x 1440<br>240fps@1920 x 1080                                                                  | 120fps@2560 x 1440<br>240fps@1920 x 1080                                                                  | 60fps@2560 x 1440<br>120fps@1920 x 1080                                                                   | 60fps@2560 x 1440<br>120fps@1920 x 1080                                                                   |
|             |                         | 200fps@2560 x 1440<br>400fps@1920 x 1080                                                                  | 200fps@2560 x 1440<br>400fps@1920 x 1080                                                                  | 100fps@2560 x 1440<br>200fps@1920 x 1080                                                                  | 100fps@2560 x 1440<br>200fps@1920 x 1080                                                                  | 50fps@2560 x 1440<br>100fps@1920 x 1080                                                                   | 50fps@2560 x 1440<br>100fps@1920 x 1080                                                                   |
|             | Compression             | H.264                                                                                                     | H.264                                                                                                     | H.264                                                                                                     | H.264                                                                                                     | H.264                                                                                                     | H.264                                                                                                     |
| Video       | Inputs                  | 16CH: AHD, NTSC, PAL, TVI, CVI                                                                            | 16CH: AHD, NTSC, PAL, TVI, CVI                                                                            | 8CH: AHD, NTSC, PAL, TVI, CVI                                                                             | 8CH: AHD, NTSC, PAL, TVI, CVI                                                                             | 4CH: AHD, NTSC, PAL, HD-TVI, HDCVI                                                                        | 4CH: AHD, NTSC, PAL, TVI, CVI                                                                             |
| Audio       | Inputs                  | 16CH (Built-in 4CH)                                                                                       | 4CH                                                                                                       | 8CH (Built-in 4CH)                                                                                        | 4CH                                                                                                       | 4CH                                                                                                       | 1CH                                                                                                       |
| Storage     | Internal HDD            | Up to 8 SATA HDDs                                                                                         | Up to 2 SATA HDDs                                                                                         | Up to 4 SATA HDDs                                                                                         | Up to 2 SATA HDDs                                                                                         | Up to 2 SATA HDDs                                                                                         | Up to 1 SATA HDD                                                                                          |
|             | External HDD            | Up to 2 Expansion Bays                                                                                    | Up to 1 Expansion Bays                                                                                    | Up to 2 Expansion Bays                                                                                    | Up to 1 Expansion Bays                                                                                    | -                                                                                                         | -                                                                                                         |
| Monitors    | VGA                     | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       |
|             | HDMI                    | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       |
|             | Spot Composite          | 1CH (BNC)                                                                                                 | 1CH (BNC)                                                                                                 | 1CH (BNC)                                                                                                 | 1CH (BNC)                                                                                                 | 1CH (BNC)                                                                                                 | 1CH (BNC)                                                                                                 |
| Connections | USB                     | 2 ports                                                                                                   | 2 ports                                                                                                   | 2 ports                                                                                                   | 2 ports                                                                                                   | 2 ports                                                                                                   | 2 ports                                                                                                   |
|             | e-SATA                  | 2 External SATA ports                                                                                     | 1 External SATA port                                                                                      | 2 External SATA ports                                                                                     | 1 External SATA port                                                                                      | -                                                                                                         | -                                                                                                         |
|             | Mouse                   | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       | Yes                                                                                                       |
| Network     | Remote Users            | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         | Search 3 / Live Unicast 10 /<br>Live Multicast 20                                                         |
|             | Transmission            | 4MP, 1080p, 720p,<br>WD1, 4CIF, CIF                                                                       | 4MP, 1080p, 720p,<br>WD1, 4CIF, CIF                                                                       | 4MP, 1080p, 720p,<br>WD1, 4CIF, 2CIF, CIF                                                                 | 4MP, 1080p, 720p,<br>WD1, 4CIF, CIF                                                                       | 4MP, 1080P, 720P,<br>WD1, 4CIF, CIF                                                                       | 4MP, 1080P, 720P,<br>WD1, 4CIF, CIF                                                                       |
|             | Monitoring              | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             | SSM, WebViewer,<br>SmartViewer, Mobile Viewer                                                             |
| PTZ Control | Coax Protocol           | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     | NTSC/PAL :<br>Pelco-C (Coaxitron)<br>AHD : ACP<br>(AHD Coax Protocol)                                     |
|             | RS-485 Protocol         | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE | Samsung-T/E, Pelco-D/P,<br>Panasonic, Phillips, AD,<br>DIAMOND, ERNA, KALATEL,<br>VCL TP, VICON, ELMO, GE |



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