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Daemyung

No.1 Integrated Video Security Solution

# WEBGATE

HD-CCTV Products & Solutions



WEBGATE is a security business brand of Daemyung group

## Daemyung Corporation Co., Ltd. **WEBGATE** Division is

The brand name for security business of Daemyung group that self develops, manufactures and promotes integrated video security solution including DVR, CCTV cameras, accessories and monitoring software. Based on its stability, reliability and technical ability accumulated during last many years in this field along with successful execution of cutting-edge defense industry projects, WEBGATE has established partnership with prominent global enterprises such as Samsung, SONY, PENTAX, BOSCH, Honeywell, and etc. As a family member of Daemyung group, the No.1 leisure business enterprise, WEBGATE has possessed intensive and stable reliability by providing massive surveillance solutions to national wide resorts, government agencies, financial institutions and 350 customers in 50 different countries around the world.



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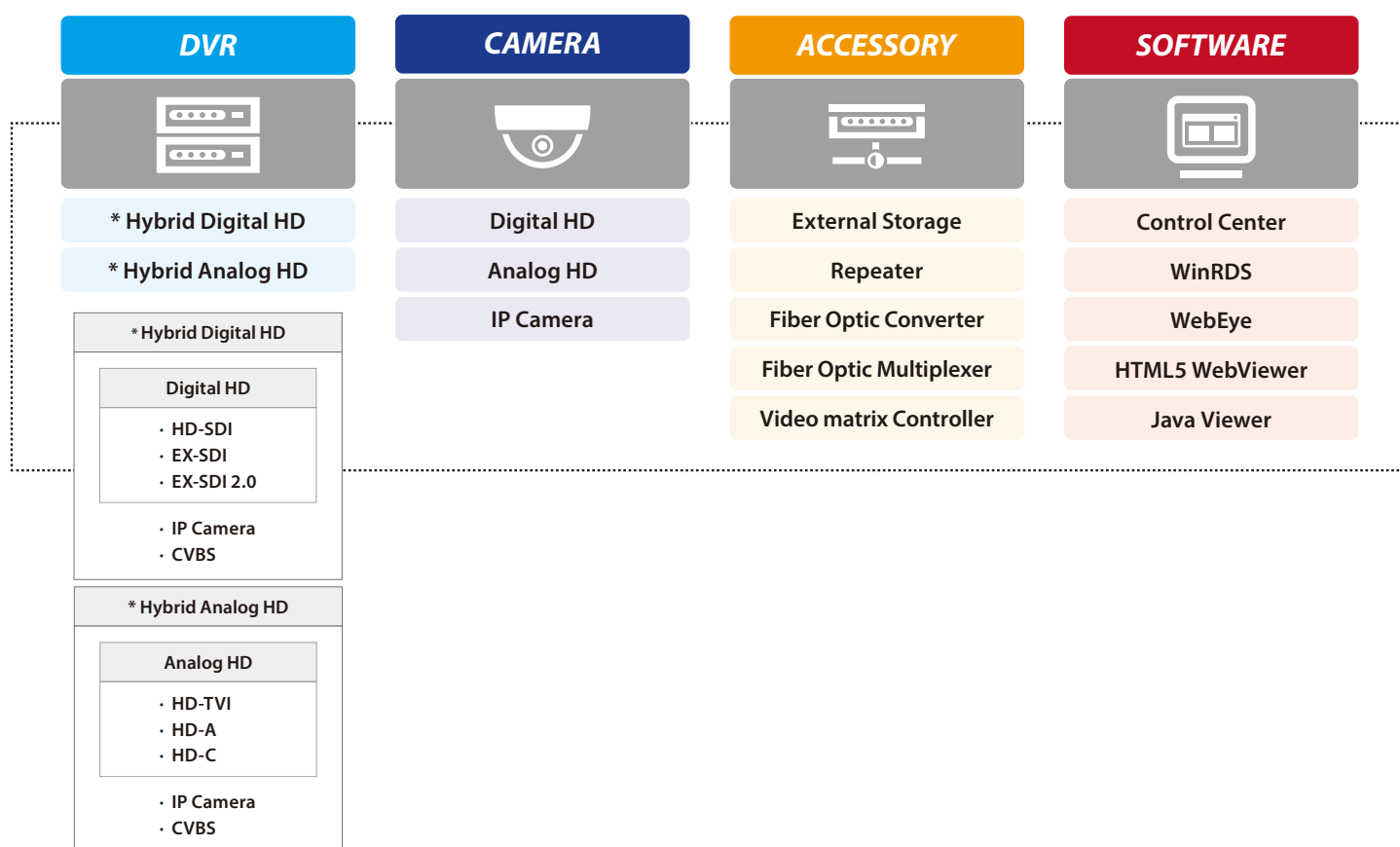


# No.1 Integrated Video Security Solution

**WEBGATE provides No.1 integrated video security solution** by developing, manufacturing and promoting

Real time Hybrid, Digital, Analog HD DVR | High performance, high definition HD Camera

Specialized equipment for differentiated solution | HD accessories for various system configuration | Software for efficient remote monitoring



WEBGATE

# Hybrid *Digital Full-HD* DVR

HD-SDI EX-SDI EX-SDI 2.0

## Premium Quality Real-time Hybrid HD DVR

Hybrid Digital HD supporting various video format  
Full-frame, real-time recording and playback  
Max. 700m video transmission of HD video (EX-SDI 2.0)  
Diverse video outputs via HDMI, VGA and BNC port  
Easy to replace SD-CCTV with HD-CCTV

HD-SDI EX-SDI EX-SDI 2.0 AHD CVBS IP Camera



### Multi Input DVR

- Supports HD-SDI, EX-SDI, EX-SDI 2.0, AHD, CVBS, IP Camera
- Full-frame, Real-time recording & Playback
- Allows different video input formats per channel

### Market Proven Product Quality

- High image quality equivalent to full-HD broadcasting
- IPFR : Intelligent Power Failure Recovery
- At-the-PC Playback feature for damaged DVR

### Easy to Use GUI

- User friendly menu & Setup wizard
- Digital zoom up to 10x in Live & Search mode
- Automatic HDD capacity calculation during recording setting
- Individual recording setup per channel
- Customized screen mode

### Intelligent Search features

- Calendar, Smart, Thumbnail, bookmark, Event, Text Search
- Playback with 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x speed
- Frame-by-Frame forward and backward playback in search mode

### Powerful Networking

- 1,024 DVRs can be connected simultaneously to VMS
- Up to 128 channels can be displayed on one PC
- Redistribution streaming server supports multiple client connections
- Automatic schedule backup via network
- Triple streaming(Dual H.264 & MJPEG) support
- Automatic port-forwarding via UPnP (Universal Plug & Play)
- Supports RTSP(Real Time Streaming Protocol) Max. 180fps

### Mobile Connection

- Live monitoring & playback for Android and iPhone
- Easy & Quick connection and registration
- Real-time push alarm to smart phone and mobile device

### External Mass Storage Interface

- Max 128TB in Gigabit Ethernet connection with storage(NS04R)
- eSATA storage interface supporting up to 32TB

### EX-SDI 2.0

- EX-SDI technology, mounted VLC(Visually Lossless Codec) on HD-SDI system, extends video transmission without image deterioration
- DVR digitally transmits either up to 500m(EX-SDI) or 700m(EX-SDI 2.0) through built-in EX-SDI receiver

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## Hybrid Digital Full-HD DVR



HYBRID DIGITAL HD 16CH

### HS1620F-D

- Max. 5 internal hard disk drives
- Supports HYBRID DIGITAL HD, AHD
- 445(W)×418(D)×88(H)mm



HYBRID DIGITAL HD 16CH

### HSC1621F-D

- Max. 2 internal hard disk drives
- Supports HYBRID DIGITAL HD, AHD
- 350(W)×393(D)×88(H)mm



HYBRID DIGITAL HD 8CH

### HSC821F-D

- Max. 2 internal hard disk drives
- Supports HYBRID DIGITAL HD, AHD
- 350(W)×393(D)×88(H)mm



HYBRID DIGITAL HD 4CH

### HSC420F-D

- Max. 2 internal hard disk drives
- Supports HYBRID DIGITAL HD, AHD
- 290(W)×232(D)×65(H)mm



DIGITAL HD 4CH

### HDC422F-D

- Max. 1 internal hard disk drive
- Supports DIGITAL HD, IP Camera(Onvif)
- 260(W)×241(D)×45(H)mm

## Key Features for all models

- Standalone DVR supporting multi-video input
- Supports diverse video standards
  - Digital HD : HD-SDI, EX-SDI, EX-SDI 2.0 / 1080p, 720p
  - Analog HD : AHD / 1080p, 720p
  - Analog SD : CVBS / 960H, 480i, 576i
  - IP Camera (Onvif)
- Built-in EX-SDI receiver function for all channels (Supports up to 500m(EX-SDI) or 700m(EX-SDI 2.0) HD video transmission without repeater)
- Up to 30fps(25fps) recording and playback per channel
- Adjustable recording quality and frame rate per channel
- Supports Dual Codec(H.264, JPEG) & Multi Stream
- HDMI, VGA, BNC video output
  - HDMI : 1920 X 1080
  - VGA : 8/16CH 1920 X 1080, 1280 X 1024, 1024 X 768, 800 X 600 / 4CH 1920 X 1080
  - BNC : CVBS, User-defined display & Alarm spot monitor support
- Max. 8TB single HDD support
- Storage expansion up to 128TB with NS04R via Gigabit Ethernet, 32TB with eSATA
- Date/Time, Smart, Thumbnail(Time Interval), Bookmark, Event, Text Search available
- Provides bundle VMS program, managing Max. 1,024 DVRs in various ways such as GIS map(TBD), Viewset
- Java Viewer for Chrome, Firefox, Safari, MAC OS
- Industry-first HTML5 Webviewer no need of any ActiveX or NPAP plug-in
- Supports various mobile platform (iPhone/Android Viewer)
- Real-time push alarm to smart phone by mobile application
- Real-time fire alert to DVR, VMS and smart phone when using flame detection camera or heat detection camera

# Hybrid *Digital Full-HD* PoC DVR

HD-SDI EX-SDI

## Premium Quality One-Cable Solution Real-time Hybrid HD DVR

Hybrid Digital HD supporting various video format  
Full-frame, real-time recording and playback  
PoC(Power over Coax) / CoC(Control over Coax)  
Max. 400m video transmission of HD video (EX-SDI)  
Diverse video outputs via HDMI, VGA and BNC port



One cable solution with PoC / CoC

HD-SDI EX-SDI CVBS IP Camera



### Multi Input DVR

- Supports HD-SDI, EX-SDI, CVBS, IP Camera (HDC420F-PD only supports HD-SDI, EX-SDI)
- Full-frame, Real-time recording & Playback
- Allows different video input formats per channel

### Market Proven Product Quality

- High image quality equivalent to full-HD broadcasting
- Strong lightning protection : 6KV lightning arresters
- IPFR : Intelligent Power Failure Recovery
- At-the-PC Playback feature for damaged DVR

### Easy to Use GUI

- User friendly menu & Setup wizard
- Digital zoom up to 10x in Live & Search mode
- Automatic HDD capacity calculation during recording setting
- Individual recording setup per channel
- Customized screen mode

### Intelligent Search features

- Calendar, Smart, Thumbnail, bookmark, Event, Text Search
- Playback with 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x speed
- Frame-by-Frame forward and backward playback in search mode

### Powerful Networking

- 1,024 DVRs can be connected simultaneously to VMS
- Up to 128 channels can be displayed on one PC
- Redistribution streaming server supports multiple client connections
- Automatic schedule backup via network
- Triple streaming(Dual H.264 & MJPEG) support
- Automatic port-forwarding via UPnP (Universal Plug & Play)
- Supports RTSP(Real Time Streaming Protocol) Max. 180fps

### Mobile Connection

- Live monitoring & Playback for Android and iPhone
- Easy & Quick connection and registration
- Real-time push alarm to smart phone and mobile device

### External Mass Storage Interface

- Max.128TB in Gigabit Ethernet connection with storage(NS04R)
- eSATA storage interface supporting up to 32TB

### PoC(Power over Coax)

- Cameras can be powered by PoC DVR through coaxial cable
- No need to install power for camera separately

### CoC(Control over Coax)

- DVR can control camera through coaxial cable
- Supports OSD menu, Zoom/Focus control, F/W upgrade

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PoC Camera



Power(PoC) + RS485(CoC)

HD 1080p HD-SDI Video

PoC DVR



## Hybird Digital Full-HD PoC DVR



HYBRID DIGITAL HD 16CH

### HS1620F-PD

- Max. 5 internal hard disk drives
- 445(W)×418(D)×88(H)mm



HYBRID DIGITAL HD 8CH

### HSC821F-PD

- Max. 2 internal hard disk drives
- 350(W)×393(D)×88(H)mm



DIGITAL HD 4CH

### HDC420F-PD

- Max. 2 internal hard disk drives
- Supports DIGITAL HD, IP Camera(Onvif)
- 290(W)×232(D)×65(H)mm

## Key Features for all models

- Standalone DVR supporting multi-video input
- PoC (Power over Coax), CoC (Control over Coax)
- Supports diverse video standards
  - Digital HD : HD-SDI, EX-SDI / 1080p, 720p
  - Analog SD : CVBS / 960H, 480i, 576i
  - IP Camera (Onvif)
- Built-in EX-SDI receiver function for all channels (Supports up to 400m HD video transmission without repeater)
- Up to 30fps(25fps) recording and playback per channel
- Adjustable recording quality and frame rate per channel
- Supports Dual Codec(H.264, JPEG) & Multi Stream
- HDMI, VGA, BNC video output
  - HDMI : 1920 X 1080
  - VGA : 8/16CH 1920 X 1080, 1280 X 1024, 1024 X 768, 800 X 600 / 4CH 1920 X 1080
  - BNC : CVBS, User-defined display & Alarm spot monitor support
- Max. 8TB single HDD support
- Storage expansion up to 128TB with NS04R via Gigabit Ethernet, 32TB with eSATA
- Date/Time, Smart, Thumbnail(Time Interval), Bookmark, Event, Text Search available
- Provides bundle VMS program, managing Max. 1,024 DVRs in various ways such as GIS map(TBD), Viewset
- Java Viewer for Chrome, Firefox, Safari, MAC OS
- Industry-first HTML5 Webviewer no need of any ActiveX or NPAP plug-in
- Supports various mobile platform (iPhone/Android Viewer)
- Real-time push alarm to smart phone by mobile application
- Real-time fire alert to DVR, VMS and smart phone when using flame detection camera or heat detection camera

# C1080 Camera Series

HD-SDI EX-SDI EX-SDI 2.0

## Premium Quality High-Performance Full HD Camera

- High-Resolution over 1,200TV Lines
- True Plug & Play by PoC / CoC
- 2.8~11mm IR corrective megapixel lens (Bullet, Dome)
- Easy installation by built-in Auto Focus
- Anti-Motion Blur



### C1080PBM

- 2.1Megapixel, Box Camera
- Manual & DC Iris Lens
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- Workable both with PoC and non PoC DVR



### C1080BL-IR18 / C1080BL-IR18-AF / C1080BL-IR48-AF C1080PBL-IR18 / C1080PBL-IR18-AF / C1080PBL-IR48-AF

- 2.1Megapixel, Bullet Camera
- IR-LED : 18EA, 48EA
- Dust-proof & Water-proof (IP66)
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- Auto-Focus : -AF Models
- PoC/CoC : C1080PBL Series



### C1080D / C1080D-IR / C1080D-AF / C1080D-IR-AF C1080PD / C1080PD-IR / C1080PD-AF / C1080PD-IR-AF

- 2.1Megapixel, Dome Camera
- IR-LED : 24EA
- PoC/CoC : C1080PD Series
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- Auto-Focus : -AF Models



### C1080VD / C1080VD-IR / C1080VD-AF / C1080VD-IR-AF C1080PVD / C1080PVD-IR / C1080PVD-AF / C1080PVD-IR-AF

- 2.1Megapixel, Vandal Dome Camera
- IR-LED : 24EA
- Dust-proof & Water-proof (IP66)
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- Auto-Focus : -AF Models
- PoC/CoC : C1080PVD Series



### C1080PT-Z30B / C1080PT-Z20B / C1080PT-Z10B

- Optical 30x zoom (4.3mm~129mm) & Digital 32x zoom
- Optical 20x zoom (4.7mm~94mm) & Digital 32x zoom
- Optical 10x zoom (5.1mm~51mm) & Digital 32x zoom
- Operating temperature adjustable built-in Fan & Heater : C1080PT-Z20B
- High-speed 360° panning & 180° Tilting
- Dust-proof & Water-proof (IP66)

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# K1080 Camera Series

HD-SDI **EX-SDI** **EX-SDI**<sub>2.0</sub>

## The Best Optimized General Purpose Full HD Camera

1 / 2.9" 2.1Megapixel CMOS

Built-in EX-SDI transmitter for all models

Built-in highly efficient megapixel lens of DC iris, 2.8mm~12mm, 3.6mm(6mm)

3DNR adopted (noise removal)

True Day &amp; Night (ICR)



### K1080H-IR100 / K1080H-IR100-F3.6(6) / K1080H-IR100-F650 K1080PH-IR100 / K1080PH-IR100-F3.6(6) / K1080PH-IR100-F650

- 2.1Megapixel, Housing Camera
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- IR-LED : Hyper LED 6EA
- 3.6/6mm Fixed Lens : -F3.6(6) Models
- Dust-proof & Water-proof (IP66)
- PoC/CoC : K1080PH Series



### K1080BL-IR48 / K1080BL-IR48-F3.6(6) K1080PBL-IR48 / K1080PBL-IR48-F3.6(6)

- 2.1Megapixel, Bullet Camera
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- IR-LED : 48EA
- 3.6/6mm Fixed Lens, no OSD : -F3.6(6) Models
- Dust-proof & Water-proof (IP66)
- PoC/CoC : K1080PBL Series



### K1080D-IR30 / K1080D-IR24-F3.6(6) K1080PD-IR30 / K1080PD-IR24-F3.6(6)

- 2.1Megapixel, Dome Camera
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- IR-LED : 30EA, 24EA
- 3.6/6mm Fixed Lens : -F3.6(6) Models
- PoC/CoC : K1080PD Series



### K1080H-SIR12-F650LPR K1080PH-SIR12-F650LPR

- 2.1Megapixel, Housing Camera (LPR)
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- IR-LED : Hyper LED 12EA
- Dust-proof & Water-proof (IP66)
- PoC/CoC : K1080PH Series

## Specialized Smart Camera

HD-SDI EX-SDI EX-SDI 2.0

### Smart Fire Detection Camera

- Full-HD fire detection CCTV solution
- Quick & accurate flame detection, push alarm
- Smart recording & search by flame detection event
- Optimal set-up according to user environment
- Supporting max.700m HD video transmission through coaxial cable (EX-SDI2.0)



#### N1080BL-AF-F2 / C1080PBL-AF-F2 C1080BL-AF-F2 / C1080BL-F1

- 2.1Megapixel, Bullet Camera
- Built-in two separate IR sensors for detecting flame wave
- Detection Distance & Angle : 30m / 80°
- Built-in EX-SDI 2.0 transmitter (HD-SDI / EX-SDI selectable)
- PoC / CoC : C1080PBL-AF-F2

\* Patent registration  
No. 10-1709919 / No. 10-1731995



#### C1080D-F1 C1080PD-F1

- 2.1Megapixel, Plastic Dome Camera
- Built-in one IR sensor for detecting flame wave
- Detection Distance & Angle : 30m / 80°
- Built-in EX-SDI 2.0 transmitter
- 3.6mm Fixed lens
- PoC / CoC : C1080PD-F1

### Smart Heat Detection Camera

- Heat detection and CCTV surveillance at the same time!
- Optimal set-up for detection distance and temperature in variable environment
- Fire prevention through push alarm when detected setting temperature (45~120℃)
- Full-HD fire detection CCTV solution
- Supporting max.700m HD video transmission through coaxial cable (EX-SDI2.0)



#### N1080BL-T2 / C1080BL-T2 C1080PBL-T2

- 2.1Megapixel, Bullet Camera
- LWIR sensor adopted
- Built-in EX-SDI 2.0 transmitter
- PoC / CoC : C1080PBL-T2



#### C1080D-T2 C1080PD-T2

- 2.1Megapixel, Plastic Dome Camera
- LWIR sensor adopted
- Built-in EX-SDI 2.0 transmitter
- 3.6mm Fixed lens
- PoC / CoC : C1080PD-T2

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## HD-SDI Accessories & Storage

### Diversity of System Configuration HD Accessories

- Converters for PoC / CoC / EX-SDI
- Converters between HD and SD
- Converters between SDI and HDMI
- Fiber-Optic Transmitter / Receiver / Multiplexer
- Digital Video Matrix DVR dedicated storage equipment



### PoC Converter & Repeater



#### RP102P

- 1ch PoC Repeater
- Supports PoC/CoC, EX-SDI
- Powered by DVR



#### OPT-TX1 / RX1-RS485P

- 1ch PoC/CoC Fiber-Optic Transmitter/Receiver
- Powered by PoC HD cameras
- Max. 20Km HD-SDI Video & Data transmission



#### OPT-TX4-RS485P

- 4ch PoC/CoC Fiber-Optic Transmitter
- Power supply to PoC HD Camera
- Max. 20Km HD-SDI Video & Data transmission



#### OPT-RX16-RS485C

- 16ch CoC Fiber-Optic Receiver
- 16 LC type Optical input, 16 BNC output
- Max. 20Km HD-SDI Video & Data transmission
- 19" Rack-mount type

64ch Real-time, Full-frame,  
Non-compressed Splitter



#### VMC6401

- Full-HD 64ch Splitter
- All channels support Real-time, Full-frame, Non-compressed picture quality
- Fully controlled by mouse & Keyboard
- \* Patent registration : No. 10-1650466

8ch Multiplexer



#### MUX08-RX/TX

- 8ch Fiber-Optic Transmitter/Receiver
- Max. 20Km HD-SDI Video & Data Transmission through 8ch Fiber-Optic cable
- Easy installation & control through PoC/CoC support

### DVR dedicated Storage Equipment



#### NS04R

- Dedicated storage equipment for WEBGATE DVR ONLY
- Max.128TB storage expansion by cascade connection
- Supports RAID level 1/5/10 and Auto-Rebuilding
- IPFR(Intelligent Power Failure Recovery) file system
- At-the-PC Playback of removed DVR hard disk
- 4 Hot-Swap, SATA type hard disk bays

HD DVR



NS04R



Gigabit switch

## Hybrid *Analog Full-HD* Solution

### Premium Quality Analog All HD DVR Solution

- 4/8/16ch Standalone Analog All HD DVR
- Fully compatible with 1080p & 720p video format
- Auto detection of video format (HD-TVI, HD-A, HD-C, CVBS)



#### Analog Full-HD DVR

HYBRID ANALOG HD 16CH

**HAC1630F**



HYBRID ANALOG HD 8CH 4CH

**HAC830F / HAC430F**



- 4/8/16ch Analog All HD DVR supporting diverse video standards
- HD-TVI 1080p & 720p, HD-A / HD-C 1080p, CVBS, IP camera (Max.4ch) input support
- Compact appearance
- Max. 30fps@1080p per channel recording & playback
- Internal HDD drive: HAC1630F: 2EA / HAC830F, HAC430F: 1EA

#### Analog Full-HD Camera



**KA1080D-IR24-F3.6**

- 2.1Megapixel, Dome Camera
- HD-TVI, HD-A, HD-C support
- IR-LED : 24EA
- 3.6mm Fixed Lens
- UTC support



**KA1080BL-IR36-F3.6**

- 2.1Megapixel, Bullet Camera
- HD-TVI, HD-A, HD-C
- IR-LED : 35EA
- 3.6mm Fixed Lens
- Dust-proof & Water-proof (IP66)
- UTC support

#### The Best Choice to Replace SD-CCTV

- Most suitable for upgrading the old analog system to HD system
- Existing analog camera and equipment can be used
- Long-distance video transmission as that of analog

#### Easy to Use GUI

- Sophisticated and easy to use user interface
- Digital zoom up to 10x in Live & Search mode
- Automatic HDD capacity calculation during recording setting
- Individual recording setup per channel
- Customized screen mode

#### Powerful Networking

- 1,024 DVRs can be connected simultaneously to VMS
- Up to 128 channels can be displayed on one PC
- Redistribution streaming server supports multiple client connections
- Automatic schedule backup via network
- Triple streaming(Dual H.264 & MJPEG) support
- Automatic port-forwarding via UPnP (Universal Plug & Play)
- Supports RTSP(Real Time Streaming Protocol) Max. 180fps

#### Mobile Connection

- Live monitoring & Playback for Android and iPhone
- Easy & Quick connection and registration
- Real-time push alarm to smart phone and mobile device

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## Software Solution

### Efficiency of Remote Monitoring Video Management Software (VMS)

- Control Center : Video Management Software
- HTML5 WebViewer : No need of ActiveX or NPAP plug-in
- WESP SDK : SDK for interlocking our DVR with 3rd party's software
- WinRDS : Windows Re-Distribution Server
- WebEye : Mobile app program (Android, iOS)



#### Control Center

- Video Management Software(VMS) supporting up to 1024 DVRs
- Onvif IP Camera support (Pro version)
- IP camera support by RTSP, RTP
- Consists of Monitoring, Playback, Setup program and Utilities
- Up to 64 split-screen per monitor
- Management of multi-monitors at a PC (Standard: 2, Pro: 6)
- GIS map support
- Status & Action panel showing the status of connected DVRs
- Rule-based Auto Action (Pro version)
- User's Action Log Save / Search function (Pro version)
- Automatic data backup via Schedule Backup utility
- Superior video engine displaying 12 Full-HD video with real-time
- Supports Calendar, Timeline, Event, Text, Smart, Thumbnail search
- Composition of user-defined split-screen through View Set
- Alarm Pop-up / Sequence switching function
- User-specific permission settings
- Event Log Save / Search by event log function
- Supports USB or dedicated Joystick Keyboard (Pro version)
- Supports At-the-PC Playback

#### HTML5 WebViewer

HTML5 Webviewer is the industry first plug-in free solution which supports full frame monitoring/playback, PTZ control, backup and other functions without installing ActiveX or NPAPI.

User can access to DVR from various web browser regardless of the OS type of PC. HTML5 SDK is also available for integrating DVR with user's Web or App.

#### Flexible and Powerful WESP SDK

WESP(WEBGATE Embedded Standard Protocol) SDK has strong flexibility and interoperability, so customers can easily develop their own applications. WESP SDK supports all functions of all WEBGATE products including software.

#### Streaming Solution : WinRDS

WinRDS(Windows Re-Distribution Server) is a video streaming server providing Video/Audio, Alarm/Status information to multiple users.

- Max. 100 Users registration
- Max. 512 video stream input from DVRs (up to 500Mbps)
- Max. 512 video stream distribution to clients (up to 500Mbps)
- Authority management of DVR access and channel control



#### Mobile App for iPhone & Android phone

WebEye is an App for iOS and Android. WebEye can manage multiple DVRs under mobile environment.

- Live monitoring, playback and PTZ control
- Screen split 1/4/9/16 support
- P2P connection support
- System logs to check power failure, hard disk errors, event logs and alarm status.
- Adjustable streaming on mobile device by various network environment

\* Smart phone push alarm when using with flame detection camera



# TECH NOTE

## Digital HD vs. Analog HD

To build a rational economic system, select between Digital HD and Analog HD based on installation purpose.

	Format	Image quality	Remarks
<b>Digital HD</b>	HD-SDI / EX-SDI / EX-SDI 2.0	Clear image	Digital signal / Clear image regardless of transmission distance
<b>Analog HD</b>	AHD / TVI / CVI	Image deterioration	Analog signal / Quality differences based on transmission distance

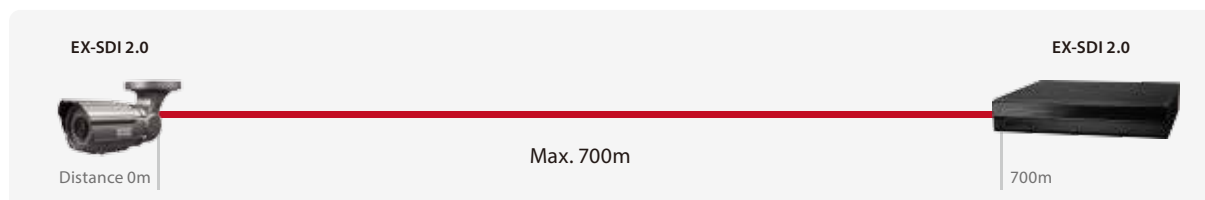


## EX-SDI 2.0

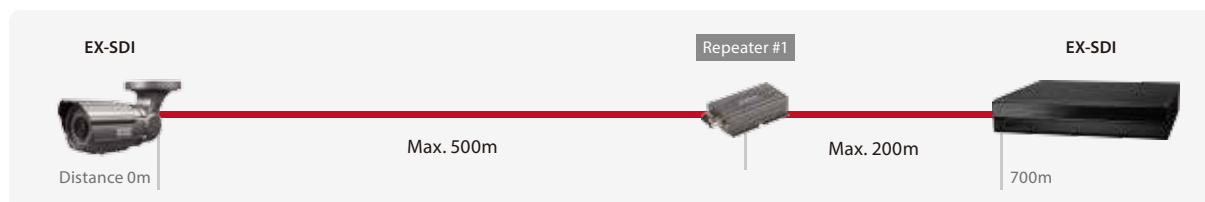
EX-SDI is the enhanced technology of HD-SDI to extend the transmission distance without image deterioration. EX-SDI 2.0 can transmit the HD-CCTV image up to 700m with coaxial cable.

### \* Examples of installation with 700m transmission distance

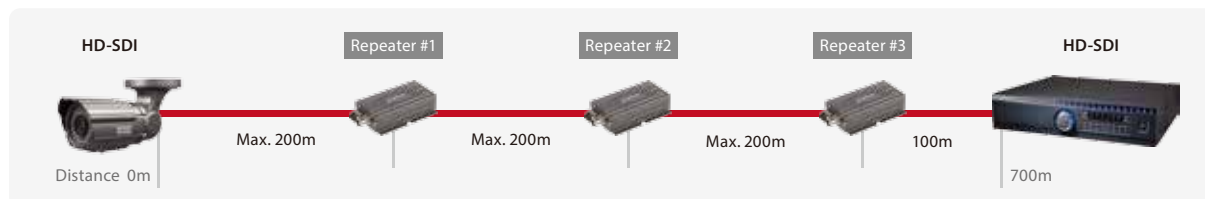
**EX-SDI 2.0** Max. 700m >> **Needs no repeater**



**EX-SDI** Max. 500m >> **Needs 1 repeater**



**HD-SDI** Max. 200m >> **Needs 3 repeaters**



\* Based on 5C-HFBT cable. It may vary for cable types and field situation.

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## Transmission distance table by cable types

Selecting appropriate cable is important for stable signal transmission. Bare copper inner conductor performs better than Copper-clad steel wire, and thick and large shield is superior in quality.

Cable type	Transmission distance		
	HD-SDI	EX-SDI	EX-SDI <sub>2.0</sub>
5C-HFBT 7 (CW Conductor/AL Shield)	200m	500m	700m
5C-HFBT 4 (CW Conductor/AL Shield)	150m	400m	600m
ECX 5C2V (CU Conductor/CU Shield)	100m	300m	500m
ECX 3C2V (CU Conductor/CU Shield)	50m	200m	300m
UTP Cat.5e (SeeEyes Passive Balun)	×	×	100m

\* The results are based on internal testing. Actual transmission distance may vary for cable types and field situation.

## Video output format setting (Control with OSD button)

User can select video output format among HD-SDI, EX-SDI and EX-SDI2.0

	HD-SDI	EX-SDI	EX-SDI 2.0
C/D/K1080 Camera series in common (OSD support)	<div>▲ ▲ ▲</div> <div>Enter</div>	<div>▼ ▼ ▼</div> <div>Enter</div>	<div>◀ ◀ ◀</div> <div>Enter</div>

\* Some models have different setting option. Refer to product manual for more details.



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ver EN 2.7

Premium to your HD-CCTV



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