

HD-CCTV Products & Solutions

Premium to your HD-CCTV



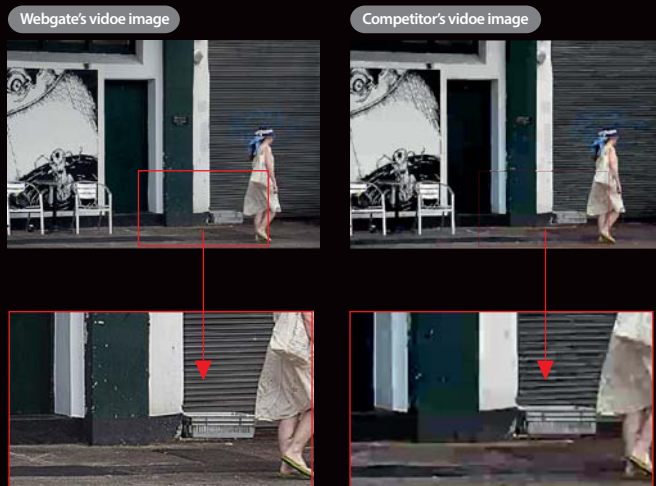
WEBGATE

Enjoy the Genuine HD Security
with WEBGATE HD-CCTV Solution

HD-CCTV DVR

Broadcast quality using High Fidelity Video Codec

The HD DVR Series adopted a high-performance video codec which is used for broadcasting to show excellent video quality. Since this codec is using a toolset which requires a high level H.264 compression technology, our HD DVR series shows better quality than any competitors.

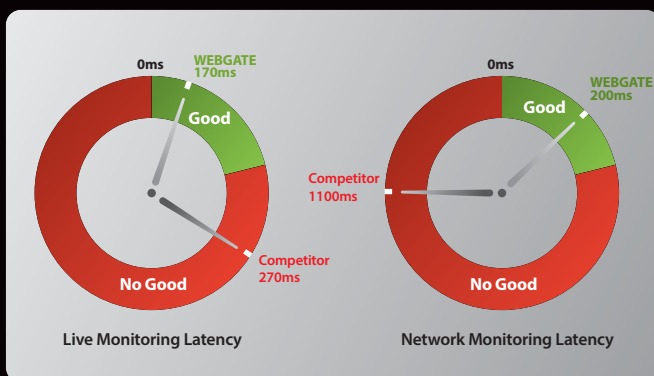


Multi-Streaming Technology

The HD DVR series provide 3 video streams. Two H.264 video streams of HD and SD, and one JPEG SD stream. The user can easily change the second SD stream's resolution, quality, and framerate regardless of recording settings.

Rapid network response using SLL(Super Low Latency) technology

The HD DVR's video codec starts its compression before an image has fully filled up the memory, and finishes its compression as soon as the image is completely filled up the memory



WISE Display Engine

Webgate's HD DVR series adopted the in-house WISE Display Engine. It supports clear and natural video image at single / 4-split / 9-split / 16-split display screen. Through this technology, the HD DVR provides excellent horizontal resolution of 1200TV lines.

Simple Plug & Play Network Installation

By enabling UPnP protocol and WRS service, operator can connect to a DVR which has a dynamic IP through the network without router configuration.

High Performance, High Reliability Video File System (VFS)

Webgate's VFS is a specialized DVR file system that minimizes the hard disk drive header's movement. It also always saves data into consecutive sectors. By using VFS, the DVR can maximize HDD's performance and could improve reliability and life-cycle of HDD.

- IPFR(Intelligent Power Failure Recovery) Technology
- Diverse bad block management
- Mirroring
- Mass storage

At-the-PC Playback

The HDD within the DVR can be accessed directly from a PC. The HDD can connect to a PC through USB or eSATA. Windows cannot support the HDD's read/write directly, however through the CMS software, the operator can do all the necessary work such as Playback, Search and Backup. When a full HDD backup is necessary, the above method provided is a simple solution.

Frame by Frame step reverse

Due to the high performance codec and WISE display engine, the DVR can provide forward and reverse step playback by frame.



Advanced Lightning Protection

The DVRs are built with advanced protection from lightning as a precaution to minimize damage from electrical storms. The HD-SDI product line of high-frequency signals, RS-485 communication lines have the advanced surge protection circuit. This also includes protection for the sensor/relay as well

Time Synchronized DVR Network

The DVR can get time information from the NTP and be configured to work as an NTP server itself. This will allow one DVR to get the time information from the NTP server, and distribute the acquired information to other DVRs on the local network at the same time. This way there will be no time difference within each DVR

Interface with POS/ATM

WEBGATE DVR can interface with the VSI product lines that contain 300 types of POS/ATM protocols within. Through the family of VSI products, the DVR can record text data, provide search, and playback.

Status notification by SNS (Social Network Service)

By connecting the DVR with twitter, a user can easily check or be notified of status and alarm events anytime and anywhere. While conventional e-mail notification can support only 1 person, the SNS can support many people at the same time. An operator can set permissions to allow who may receive notifications.

Powerful CMS : Control Center Standard/ Pro/ Enterprise

Control Center Standard is provided as a bundled software for the DVR. It can manage a maximum of 1024 DVRs, 2monitors, and provides View Set, user-specific authority settings. It also provides real time even status, and all the other necessary functions.

Flexible and powerful WESP SDK

Due to the flexibility and interoperability of the WESP(Webgate Embedded Standard Protocol) SDK, it supports all functions of equipment so that a user can easily develop their own applications

Multi platform support by Java viewer

Webgate's DVRs are embedded with Java Viewer which support connections from different operating systems such as Mac and linux.

Centralized Password Management

The Webgate DVRs contain radius protocols in which a server can change every DVRs' password at once.

Mobile Viewer : WebEye

WebEye is a mobile application for DVR that supports IOS and Android. An operator can register DVRs, monitor video, and control PTZs.

HD1600M / HD800H / HD400F / HD400H



HDC401M



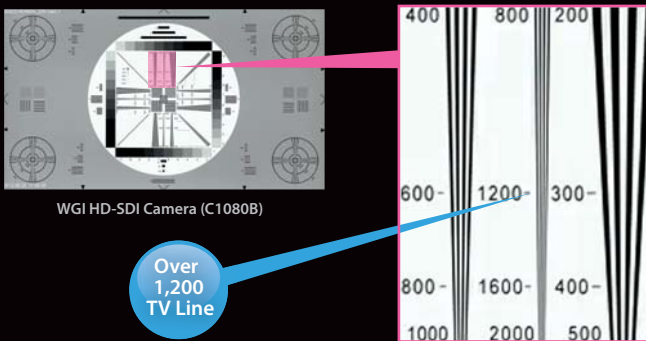
HDC400M



| Model | HD1600M | HD800H | HD400F | HD400H | HDC401M | HDC400M |
|-----------------|--|---|---|---|--|---------------------------------------|
| Channel | 16 | 8 | 4 | 4 | 4 | 4 |
| Design | | | | | | |
| Video Input | HD-SDI (SMPTE 292M) : 1080p or 720p at 30/25 fps | | | | | |
| Video Output | HDMI /VGA (1920 x 1080p) | | | | HDMI (1920x1080p) | |
| Recording Speed | 120/100fps at 1080p 240/200fps at 720p | 120/100fps at 1080p 240/200fps at 720p | 120/100fps at 1080p 240/200fps at 720p * Realtime recording | 60/50fps at 1080p 120/100fps at 720p | 30/25fps at 1080p 60/50fps at 720p | 30/25fps at 1080p 60/50fps at 720p |
| Recording Mode | Manual & Event / Schedule & Evnet / Continous & Evnet | | | | | |
| Playback | 60/50 fps at 1080p 120/100fps at 720p | | | | 30/25fps at 1080p 60/50fps at 720p | |
| Search Type | Time, Calendar, Event, Thumbnail, Smart | | | | Time, Calendar, Event | |
| Event Source | Motion Detection, Sensor, Text, Video Loss | | | | | |
| Event Action | Buzzer, Relay, E-mail, Twitter, FTP, Alarm pop-up | | | | | |
| Text Input | Pos/ATM support, AVE VSI Pro/Hydra support | | | | | |
| Audio | 4ch input / 1ch output 16KHz, 16bit sampling ADPCM | | | | Input 4ch RCA / output HDMI 32KHz, 16bit sampling ADPCM | |
| Network | 10/100 Ethernet, Giga Ethernet for Storage (NVS04R) | | | | 10/100/1000 Ethernet | |
| Multi Streaming | 3 different streams (Rocording / Network / Mobile) | | | | | |
| User Account | 1 admin, 10 users | | | | | |
| Storage | 4 internal HDDs, 1 eSATA, Network Storage (NVS04R) | | | | 2 internal HDDs, 1 eSATA | 1 internal HDD, 1 eSATA |
| Capacity | Max 16TB with SATA, Max 64TB with NVS04R | | | | Max 16TB with SATA | |
| Mirroring | Supported | | | | Not supported | |
| Backup | DVD or USB (2 Ports) | | | | | USB (2 Ports) |
| Serial Port | 1 RS-232C, 2 RS-485 | | | | 1 RS-232C, 1 RS-485 | |
| Sensor In/Out | 16 input / 4 realys | 8 input / 4 realys | 4 input / 4 realys | 4 input / 4 realys | 4 input / 2 realys | 4 input / 2 realys |
| Software | Control Center (CMS), Web Viewer, Java Viewer, Mobile Viewer (iPhone / Android), SDK | | | | | |
| Dimension (mm) | 445(W) x 418(D) x 88(H) | | | | 350(W)x393(D)x88(H) | 290(W)x230(D)x68(H) |
| Weight | 10Kg (No HDD) | 9.5Kg (No HDD) | 9.5Kg (No HDD) | 9.5Kg (No HDD) | 8Kg (No HDD) | 2.5Kg (No HDD) |
| Power | AC 100~240V, 50/60Hz | | | | | DC 12V, 5A |
| Approval | KC, FCC, CE, RoHS, HDcctv | | | | | |

HD-CCTV CAMERA

High-Resolution : Provides 1,200TV Line



Anti-Motion blur : Delivers more clear image for any moving object

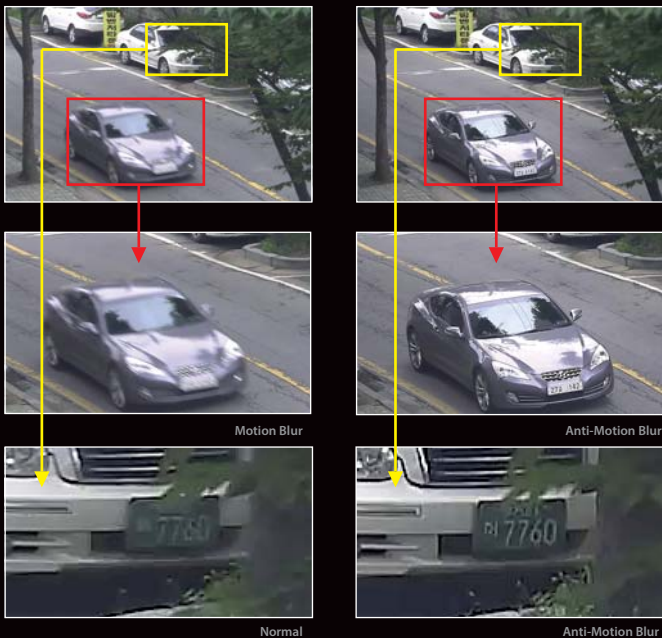
[Indoor]

This mode minimizes the motion blurring at indoor environment like entrance or corridor.



[Outdoor]

This mode minimizes the motion blurring at outdoor environment, and it is especially useful for the license plate recognition on the road. This function also minimizes the image blurring caused by the vibration of camera.



Smart IR-LED : Intelligent brightness control



WDR : Smart Backlight Compensation

User may select BLC or HLC function according to the install environment.



3DNR : Powerful 3-Dimensional Digital Noise Reduction



Auto Focus : Auto Focus by one-push

AF series cameras support auto focus function. Besides, if camera is connected to DVR by serial communication, user can control zoom and focus remotely.

Test Pattern : Color Bar, Stress Pattern

To help checking the quality of HD-SDI transmission cable, camera supports color bar and stress pattern. Especially, Stress pattern is the most sensitive video image to cable quality. (C1080B model only)

CVBS output : Auxiliary analog video output

By using full-screen and zoom screen of CVBS output, installer can easily adjust not only the angle of view but also focus

DVR interface : Remote camera control by DVR

- OSD Control/Firmware Update RS485
- Zoom / Focus Control







Excellent sensitivity : Clear image at 0.0005 lux

High-performance signal processing makes camera to have high sensitivity at dark environment where even human eyes cannot identify target object.

DSS : Digital Slow Shutter (Sense-up)

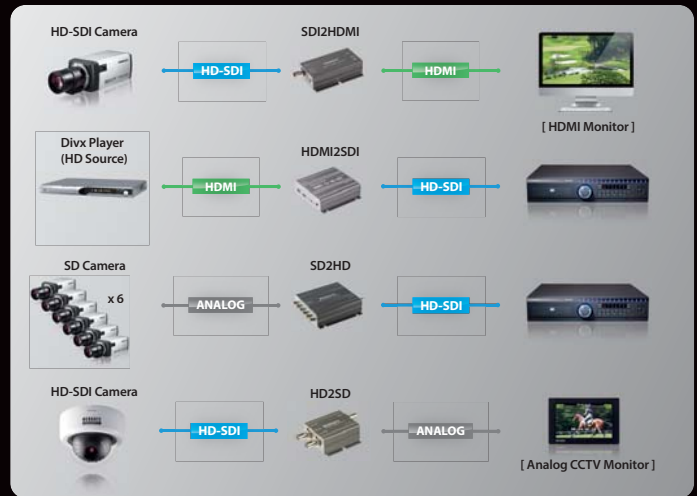
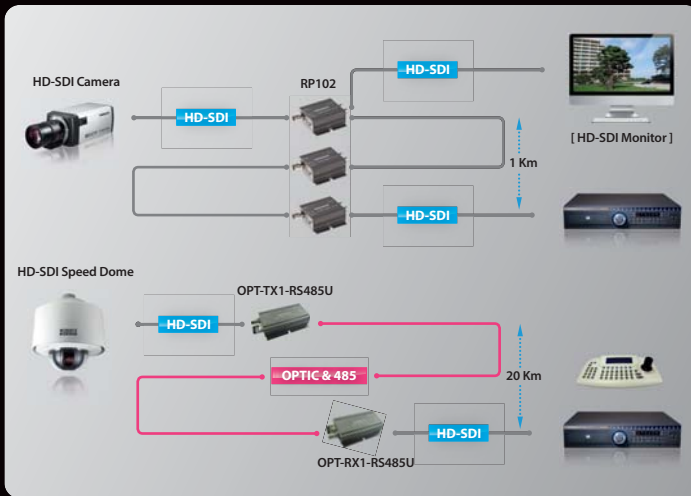
At very dark environment, DSS function accumulates the light into the sensor pixels, and provides visible video image as a result.

| Model | C1080PT-Z20 | C1080B | C1080BM | C1080BL-IR18-AF | C1080BL-IR48-AF |
|--------------|---|---|---|---|---|
| Design |  |  |  |  |  |
| Chipset | 1/2.8" 2.1Megapixel CMOS | 1/3" 2.1Megapixel CMOS | | | |
| Video Output | HD-SDI (SMPTE 292M) , Approx. 200m(650 ft.) of RG6, 150m(490 ft.)of RG59 | | | | |
| Resolution | 30/25fps@1080p 60/50fps@720p | 30/25fps@1080p, 60/50fps@720p (Clipping) | | | |
| Lens | X20, Optical Zoom | CS / C (Ring Adaptor) | CS / C (Ring Adaptor) | DC Iris, 2.8mm~10mm, F1.2, IR Corrective Megapixel Lens | |
| Auto Focus | - | - | - | O | O |
| LEDs | - | - | - | 18 | 48 |
| Function | 3DNR / WDR / BLC / TDN Preset, Scan, Pattern, Group | 3DNR / WDR / DSS / BLC / AGC / TDN | | | |
| RS485 | Upgrade Firmware / OSD Control | | | | |
| IP66 | O | - | - | O | O |
| Power | AC24V, 24W | DC12V, 4W | DC12V, 2W | DC12V, 4W / AC24V, 6W | DC12V, 5W / AC24V, 8W |
| Dimension | 259 x 266mm, Dome(ø) : 146mm | 68(W) x 150(D) x 63(H) mm | 68(W) x 81(D) x 56(H) mm | 88(W) x 120(H) mm | 120(W) x 133(H) mm |
| Weight | 6Kg | 350g (Lens not include) | 320g (Lens not include) | 720g | 1600g |

| Model | C1080D | C1080D-IR | C1080D-AF | C1080D-IR-AF | C1080VD | C1080VD-IR | C1080VD-AF | C1080VD-IR-AF |
|-------------------|---|---|---|---|---|---|---|---|
| Design |  |  |  |  |  |  |  |  |
| Chipset | 1/3" 2.1Megapixel CMOS | | | | | | | |
| Video Output | HD-SDI (SMPTE 292M), Approx. 200m(650 ft.) of RG6, 150m(490 ft.)of RG59 | | | | | | | |
| Min. illumination | BW: 0.0005Lux / Color: 0.2Lux@50IRE, F1.2, 3100K. DSS off | | | | | | | |
| Resolution | 30/25fps@1080p, 60/50fps@720p (Clipping) | | | | | | | |
| Lens | DC Iris, 2.8~10mm, F1.2, IR Corrective Mega Pixel Lens | | | | | | | |
| Auto Focus | - | - | O | O | - | - | O | O |
| LEDs | - | 24 | - | 24 | - | 24 | - | 24 |
| Function | 3DNR / WDR / DSS / BLC / AGC / TDN | | | | | | | |
| RS485 | Only OSD Control | Upgrade Firmware / OSD Control | | | | | | |
| IP66 | - | - | - | - | O | O | O | O |
| Power | DC12V, 3W / AC24V, 4W | DC12V, 4W / AC24V, 5W | DC12V, 3W / AC24V, 4W | DC12V, 4W / AC24V, 6W | DC12V, 3W / AC24V, 4W | DC12V, 4W / AC24V, 5W | DC12V, 3W / AC24V, 4W | DC12V, 4W / AC24V, 6W |
| Dimension | 130(ø) x 104(H)mm | | | | 136(ø) x 111(H)mm | | | |
| Weight | 359g | 399g | 370g | 380g | 759g | 769g | 770g | 780g |

HD-SDI Converter & etc.

As a HD-CCTV solution provider, WEBGATE provides all required devices. Various devices are prepared such as repeater for extending transmission distance, optic converter and signal converter of HD-SDI, HDMI, Analog.



| Model | Design | Feature |
|-----------------|--------|--|
| RP102 | | <ul style="list-style-type: none"> - The world's first HDcctv certified repeater - HD-SDI repeater & distributor - BNC 1ch input / 2ch output - Auto detection on input image |
| SDI2HDMI | | <ul style="list-style-type: none"> - The world's first HDcctv certified converter - HD-SDI to HDMI converter - BNC input / HDMI output - HDMI embedded audio output |
| HDMI2SDI | | <ul style="list-style-type: none"> - HDMI to HD-SDI converter - Auto detection on input image - HD-SDI embedded audio & RCA audio output |
| SD2HD | | <ul style="list-style-type: none"> - CVBS to HD-SDI converter - Max 6ch CVBS signal input - NTSC/PAL switch selectable - 1/4/6ch output selectable |
| HD2SD | | <ul style="list-style-type: none"> - The world's first HDcctv certified converter - HD-SDI to CVBS converter & HD-SDI Loop out - BNC 1ch input / 2ch output - Auto detection on input video |
| OPT-TX1-RS485U | | <ul style="list-style-type: none"> - HD-SDI to Optic converter on camera side - BNC 1ch input/Fiber Optic LC type 1ch output - Power/Video/Data/Optic status LED indicator |
| OPT-RX1-RS485U | | <ul style="list-style-type: none"> - Optic to HD-SDI converter on DVR side - Fiber Optic LC type 1ch input/ BNC 1ch output - Power/Video/Data/Optic status LED indicator |
| OPT-TX4-RS485U | | <ul style="list-style-type: none"> - HD-SDI to Optic converter on camera side - BNC 4ch input/Fiber Optic LC type 4ch output - Power/Video/Data/Optic status LED indicator |
| OPT-RX16-RS485U | | <ul style="list-style-type: none"> - Optic to HD-SDI converter on DVR side - Fiber Optic LC type 16ch input/ BNC 16ch output - Power/Video/Data/Optic status LED indicator - 1U 19" Rack type case |
| WKC-100 | | <ul style="list-style-type: none"> - Support 255 DVRs, 255 SPD connection - Control unit, channel of CMS - Support RS485/422/232 port |

HD-CCTV Storage

The NVS04R has two network ports that can be cascaded up to 8 units without an additional hub network device. If the Mirroring function is in use, two 64TB storages are used to save the same video data. Additionally, external eSATA storage which may have RAID technology can be connected to HD DVR's eSATA port, and this can expand the DVR storage up to 16TB.

| Model | NVS04R | ES0104 | ES0212 |
|---------|---|---|---|
| Design |  |  |  |
| Feature | <ul style="list-style-type: none"> - Extended Storage Device for DVR - Support MH & HD DVR Series of Webgate HD series : Max 64TB with cascaded NVS04R MH series : Max 32TB with cascaded NVS04R - Support IPFR (Intelligent Power Failure Recovery) File System - 4 HDD Racks with Hot-Swap SATA - Built-in 1 network Port for DVR Connection - Built-in network Port for Extended Storage(NVS04R) | <ul style="list-style-type: none"> - 1U/4Bays, eSATA - SATA II RAID sub-system - RAID 0,1, 3, 5, 10, Large - SATAII (up to 3Gbps) host bus interface - Supports hot spare and automatic hot rebuild - Local event notification - Real time drive activity and system status indicators - Easy RAID level maintenance - Max. 8TB connecting to LH/EH/MH series DVR - Max 16TB connecting to HD series | <ul style="list-style-type: none"> - 2U/12Bays, eSATA - SATA II RAID sub-system - RAID 0,1,10(1E),3,5,6 and JBOD - Redundant power supplier - eSATA (3Gbps) host interface - Max. 8TB connecting to LH/EH/MH series DVR - Max 16TB connecting to HD series - Hot-spare and auto rebuild - Inside buzzer alarm - Password protection - Serial port for external event notification - Smart LCD panel - Realtime drive and status notification - Web base GUI management utility |

HD-CCTV IP/NVR

High Definition NVR Solution

Image data from max 16 IP devices including both HD and SD can be stored in NVS04S via network. The CMS software allows user remote monitoring and management. In addition, built-in hot swappable 4 HDDs enable user to replace HDD easily.

Recording Server Solution & Schedule Backup

WEBGATE Server Solution provides high recording performance including real-time image recording, event information. System configuration, monitoring and searching and searching service through Control Center for WESP protocol based products (WebEye Series, eDVR Series). WEBGATE provides powerful schedule backup program as a bundle with CMS software through which user can backup the data of DVR through the network safely.




Multi streaming

Multi streaming features flexible and usage. Today, higher quality and resolution are required for recording images. However, less computing power and network bandwidth are required for central management system. Multi Streaming is the only solution to satisfy those complex usage environments simultaneously.

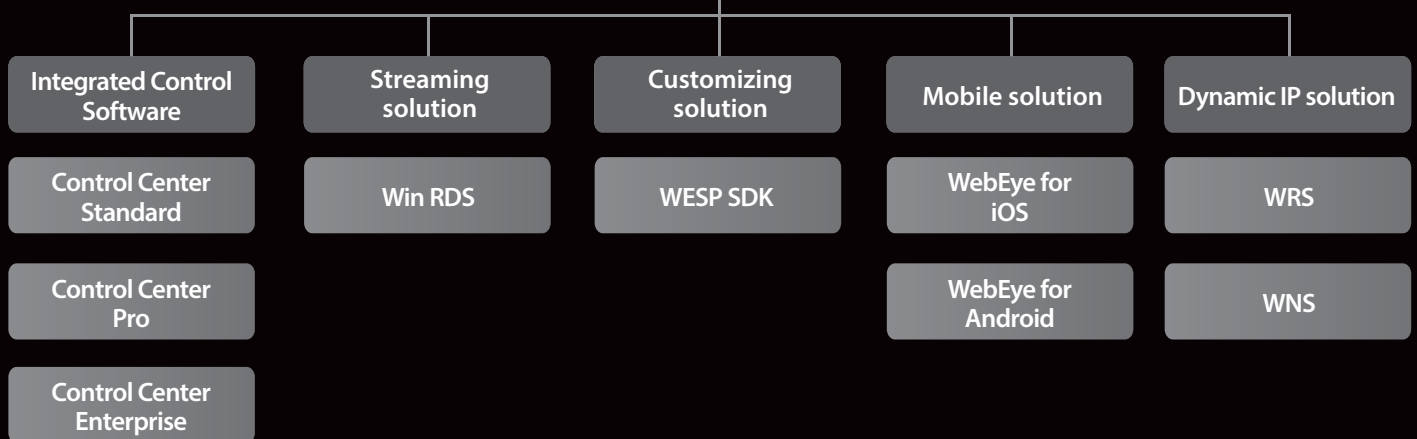
| Model | HDC730C | SPD360M | B101M | D101M | NVS04S |
|---------|--|--|---|---|---|
| Design |  |  |  |  |  |
| Feature | <ul style="list-style-type: none"> - 1CH MPEG-4 High Definition Network Camera - Support 30fps@720p, 22.5fps@1280x960 - Support 1280x720, (x1/4), (x1/16) Resolution - Superior Feature under the Low Light Condition 0.001lux@B&W, 0.5lux@Color - 1/3" 1.3M CMOS Sensor - Bi-Directional Audio (1CH Input/Output) | <ul style="list-style-type: none"> - 1CH MPEG-4 High Definition Network Speed Dome Camera - Support Multi Streaming(Max.8) at D1/60fps) - x36 Optical Zoom (x16 Digital Zoom) - Bi-Directional Audio (RCA type) - 360 degree continuous panning - Supports RS485 and CVBS output for Local operation - Monitoring and configuration through web browser | <ul style="list-style-type: none"> - 1CH MPEG-4 Video Server - Support Multi Streaming(Max.8) at D1/60fps - Support Dual-Codec (MPEG-4 & JPEG) - Support D1 / Half D1 / CIF / QCIF Resolution - 2 Sensor Input (Dry Contact) / 2 Digital Output (TTL level) - Monitoring and Setup via IE Browser | <ul style="list-style-type: none"> - 1ch video decoder with MPEG-4 - Support various resolution, "D1(4CIF), HALF, D1(2CIF), CIF, QCIF" - Support Dual-Codec (MPEG-4 & JPEG) - Support sequential monitoring up to 16 video server - Support OSD of video server in non-PC environment - Support bi-directional audio (1ch input & output with RCA type) | <ul style="list-style-type: none"> - Network Video Storage Device (Stand Alone Type) - 16 HD IP Video Channel Support - 4 Hot-Swap SATA HDD Racks can be Installed - Remote Monitoring / Control via Integrated Software - IPFR Support (Intelligent Power Failure Recovery) |

H.264 DVR

With over 16 years experiences in Video Surveillance field, WEBGATE successfully has landed on high end market with superior hardware and software features which are required not only for simple monitoring but also for complicated Intergrated security solution.

| Model | MH3200 | MH1600H | MH1600M | EH1600L | EH800M | EH400H | LH1600C | LH800L |
|-----------------|---|------------------|------------------------|--|-----------------------|-------------------|---|-----------------------|
| Channel | 32 | 16 | 16 | 16 | 8 | 4 | 16 | 8 |
| Design |  | | |  | | |  | |
| Video Input | 32 BNC | 16 BNC | 16 BNC | 16 BNC | 8 BNC | 4 BNC | 16 BNC | 8 BNC |
| Video Output | 4 BNC (4 Main) / 2 DVI | | 2 BNC (2 Main) / 1 DVI | 2 BNC (1 Main, 1 Spot) / 1 DVI | | | 2 BNC (1 Main, 1 Spot) / 1 VGA | |
| Recording Speed | 960/800fps at Half D1 | 480/400fps at D1 | 480/400fps at Half D1 | 480/400fps at CIF | 240/200fps at Half D1 | 120/100fps at D1 | 480/400fps at CIF | 240/200fps at Half D1 |
| Recording Mode | Manual & Event / Schedule & Event / Continuous & Event | | | | | | | |
| Search Type | Time, Calendar, Event, Thumbnail, Smart | | | | | | | |
| Event Source | Motion Detection, Sensor, Text, Video Loss | | | | | | | |
| Event Action | Buzzer, Relay, E-mail, Twitter, FTP, Alarm Pop-up | | | | | | Buzzer, Relay, E-mail, FTP, Alarm Pop-up | |
| Text Input | Pos/ATM support, AVE VSI Pro/Hydra support | | | | | | | |
| Audio | 16ch in / 1ch out | | | | 4ch in / 1ch out | | | |
| Network | 10/100 Ethernet, Giga Ethernet for Storage(NVS04R) | | | | 10/100 Ethernet | | | |
| Multi Streaming | 3 different streams (Recording / Network / Mobile) | | | | | | | |
| User Account | 1 admin, 10 users | | | | | | | |
| Storage | 4 internal HDDs, 1 eSATA, Network Storage (NVS04R) | | | 2 internal HDDs, 1 eSATA | | | 2 internal HDDs | |
| Capacity | Max 8TB with SATA, Max 32TB with NVS04R | | | Max 8TB with SATA | | | | |
| Mirroring | Supported | | | Not Supported | | | | |
| Backup | DVD or USB (2 Ports) | | | | | | DVD(Optional) or USB (2 Ports) | |
| Serial Port | 1 RS-232C, 2 RS-485 | | | | | | | |
| Sensor In/Out | 16 input / 4 reals | | | 16 input / 2 reals | 8 input / 2 reals | 4 input / 2 reals | 16 input / 2 reals | 8 input / 2 reals |
| Software | Control Center(CMS), Web Viewer, Java Viewer, Mobile Viewer(iPhone/Android), SDK | | | | | | | |
| Dimension | 445(W) x 418(D) x 88(H) mm | | | 350(W) x 390(D) x 88(H) mm | | | | |
| Weight | 9.5 Kg (No HDD) | | | 8.0 Kg (No HDD) | | | | |
| Power | AC free volt (100~240VAC) | | | | | | | |
| Approval | KC, FCC, CE, RoHS | | | | | | | |

Software Solution

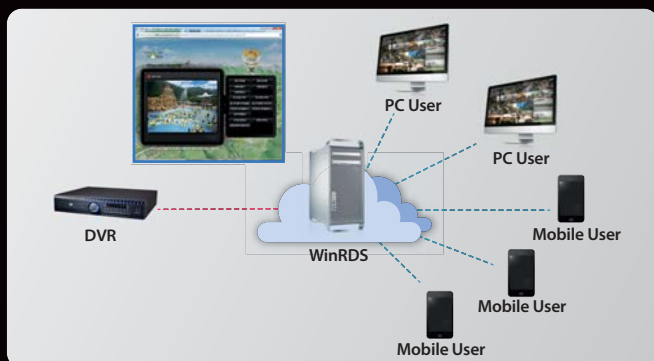


Integrated Control S/W : Control Center

Control Center is Integrated Control S/W of WEBGATE. It consists of Standard version supplied with product with free of charge, Pro version - more powerful features included, and Enterprise version including Virtual Matrix feature.

Streaming Solution : WinRDS

WinRDS(Windows ReDistribution Server) is streaming server supplying multi users with Video/Audio stream and Alarm/Status information.



- Streaming Server to Redistribute DVR Stream to multiple Users
- Max. 512 Channels Transmission (500Mbps)
- Max. 512 Users Support (500Mbps)
- Authority Management for Access and Control based on User's Account

Customizing Solution : WESP SDK

The powerful, abundant WESP(Webgate Embedded Standard Protocol) SDK has full function of Control Center with which any special application preferred by user can be developed with ease.

Dynamic IP solution : WRS and WNS

WRS and WNS are solutions enabling remote user to access to units having dynamic IP.

Mobile Solution : WebEye for iPhone, Android phone

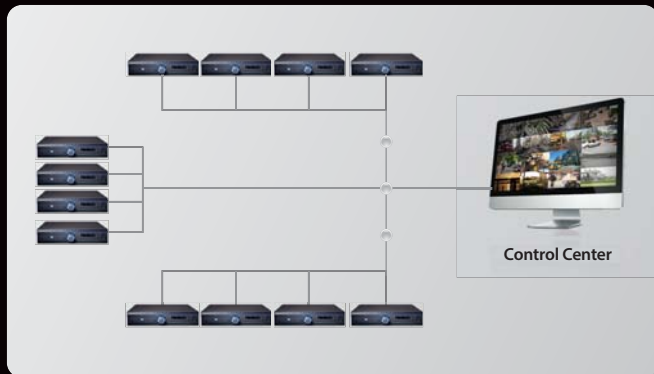
WebEye is customized App working on iOS and Android which can manage multi devices under mobile environment. DVR or WinRDS can be registered and monitored or user can control PTZ too.

- Mobile Viewer for iPhone / Android Phone
- Support MH/LH/EH/MH/HD series DVRs
- Max. 16 DVRs Support
- Dynamic IP unit connection
- Support QCIF/CIF/Half/D1/720p/1080p resolutions
- 4 screen division monitoring
- Streaming up to 30fps
- Support PTZ
- Support HD Resolution including D-Zoom
- Check Unit Status by Searching System logs
- Check alarm status by searching Event Log

Control Center Features

1024 Units Management

Control Center can manage Max. 1024 units in one PC. Less CPU and network bandwidth are required with 'Distributed Connection Management' technology so multi units can be managed in one PC in real time.



Flexible high performance Video Engine

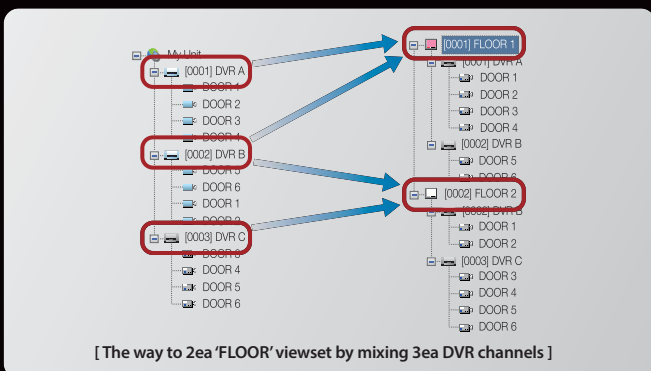
Over 12ch at 1080p 30fps stream can be monitored flexibly from version 3.0 with new installed high performance display engine. 256 channels display via Auto Stream Selection Support Max.64 screen division monitoring per monitor, Standard version supports 128 channels monitoring via 2 monitors, Pro version support 256 channels monitoring via 4 monitors out of 6 monitors. Auto Stream function automatically selects the suitable video stream among HD, D1, Half, and CIF according to the screen size.

Supports Multi monitor

To manage multi units effectively in one PC, 2 monitors for Standard version, Max. 6 monitors for Pro version supports. Quick and easy setup on each multi monitor can be done through Layout manager.

Virtual Matrix function (Enterprise version)

Enterprise version of Control Center has feature to manage 51ea PCs as 1ea Server and the other 50ea Clients. Server Control Center can control screen of Client Control Center, so user can monitor 3,000 channels and manage them throughout virtual matrix of 1024x51. ViewSet : Virtualizing units by channel grouping Viewset function is grouping function where user can select preferring channels from multi units and it works as one of unit virtualized with new name.



Authority setup function per user

Control Center has user management function to limit feature on each user. Executing Control Center can be blocked by password or specific program such as 'setup', 'playback' can be blocked per user.

Classified Map function

Units can be managed in a unit of map by locating camera, sensor, mike and relay on the map. Monitoring video, controlling relay or displaying all set of videos registered in the map can be Supported. Status & Action Panel showing status of connected units in real time graphically

Status & Action Panel showing status of connected units in real time graphically

Status & Action panel is managing tool to show multi unit's status in real time. It can not only show unit's video connection status, Event trigger status such as Motion Detection or sensor and saving status graphically but also it can response to events such as turning on relay, warning message via bi directional audio.

Quick recording

User can make instant recording on the channel during Control Center monitoring by click on right button of mouse.

Integrated event management via Rule-based Auto Action

When event is triggered, user can set CC to make various reactions such as image popup, warning sound (wav file format) output, E-mail transfer, warning window popup, move preset, quick record, save JPEG image and so on

Event log save/search function

All incoming event logs will be saved and managed in DB while Control Center is running.

Keyboard shortcut and Joystick keyboard support

The most of functions can be defined into keyboard shortcut for easy and fast control. Based on this keyboard shortcut, the customized keyboard WKC-100 or USB joystick can select channels or control PTZ.



User action log save/search function (Pro version)

Pro version can record not only event log but also user's Control Center control. By recording who achieved playback/backup, close warning message, it is possible to check if user made reasonable reaction when alarm triggers based on rule.

Calendar/Timeline/Smart/Thumbnail/Text search

Control Center's playback program provides various search features. User can check kinds of events based on time graphically through timeline search and move to the time with ease. Smart search enables user to see images only with motion in designated area set by user. Thumbnail search enables user to check images with long interval at a look. User can search recorded data based on text data of POS/ATM stored in DVR and search image of text immediately.

Playback at the PC

HDD used in DVR can be connected to the PC through USB or eSATA port and user can achieve playback, search, backup from the HDD through Control Center.

Control Center Standard

Control Center Professional

Control Center Enterprise

| GENERAL | | | |
|--|---|---|--|
| Maximum # of Units | 1024 | 1024 | 1024 |
| Maximum # of Monitors (Views) | 2 | 6 | 4+50 External Monitor |
| Maximum # of Supported Division | 1/4/9/13/26/25/36/49/64 | 1/4/9/13/26/25/36/49/64 | 1/4/9/13/26/25/36/49/64 |
| H/W Support | HD Series DVR, LH/EH/MH Series DVR, MD Series DVR, MPEG-4 WebEye Series, NVS04S, WinDVrs, WinRDS | HD Series DVR, LH/EH/MH Series DVR, MD Series DVR, MPEG-4 WebEye Series, NVS04S, WinDVrs, WinRDS | HD Series DVR, LH/EH/MH Series DVR, MD Series DVR, MPEG-4 WebEye Series, NVS04S, WinDVrs, WinRDS |
| Video Format | H.264 / MPEG4 / JPEG | H.264 / MPEG4 / JPEG | H.264 / MPEG4 / JPEG |
| Audio Format | ADPCM/Truespeech/G.723 | ADPCM/Truespeech/G.723 | ADPCM/Truespeech/G.723 |
| User Management | Yes | Yes Manage Units, Monitors by user separately | Yes Manage Units, Monitors by user separately |
| Account level | Yes | Yes | Yes |
| Max account | 100 | 100 | 100 |
| WNS (DDNS) | Yes | Yes | Yes |
| WRS (Dynamic IP Registration Service) | Yes | Yes | Yes |
| MONITOR | | | |
| Performance | 8 HD 1080p30 | 12 HD 1080p30 | 12 HD 1080p30 / PC |
| Real-Time Audio | Yes | Yes | Yes |
| Remote PTZ Control | Yes | Yes | Yes |
| Remote I/O Control | Yes | Yes | Yes |
| Save snapshot image | Yes | Yes | Yes |
| Quick Recording | Yes | Yes | Yes |
| Alarm Log Viewer, Save/Search Event List | Yes | Yes | Yes |
| Auto Action | Yes Alarm Popup, Buzzer | Yes Alarm Popup, Buzzer, Latch Window, Relay, e-Mail, Preser, Recording, Save image | Yes Alarm Popup, Buzzer, Latch Window, Relay, e-Mail, Preser, Recording, Save image |
| Rule based auto action | No | Yes | Yes |
| Error Management (Latch function) | No | Yes Item of errors to be managed are selectable freely | Yes Item of errors to be managed are selectable freely |
| Action Log | No | Yes User action, auto action | Yes User action, auto action |
| Log Save | Yes | Yes | Yes |
| Status Viewer | Yes | Yes | Yes |
| Auto Connection (Lost & Recovery) | Yes | Yes | Yes |
| Watermark | Yes | Yes | Yes |
| Keyboard Shortcuts | No | Yes | Yes |
| Joystick (WKC-100) | No | Yes | Yes |
| View set(group) | Yes | Yes | Yes |
| Map | Yes | Yes Section, Sub Map, Map Link | Yes Section, Sub Map, Map Link |
| Remote Login | No | No | Yes |
| PLAYBACK | | | |
| Playback | Yes | Yes | Yes |
| Backup (re4, avi) | Yes | Yes | Yes |
| Log Viewer | Yes | Yes | Yes |
| Timeline display (log) Timeline index search | Yes | Yes | Yes |
| Go to a certain time Calendar search | Yes | Yes | Yes |
| Playback event image | Yes | Yes | Yes |
| Speed playback(0.5 ~ 64x) | Yes | Yes | Yes |
| Smart Search | Yes | Yes | Yes |
| Thumbnail Search | Yes | Yes | Yes |
| Text Search | Yes | Yes | Yes |
| Snapshot / print | Yes | Yes | Yes |
| Zoom in/out image Brightness/Contrast | Yes | Yes | Yes |
| Audio play | Yes | Yes | Yes |
| Fix Layout | No | Yes | Yes |
| UTILITIES | | | |
| Web Viewer | No | No | Yes |
| Schedule Backup | Yes | Yes | Yes |
| DVR HDD Manager | Yes | Yes | Yes |
| File Converter (eye to bmp, rec to avi ...) | Yes | Yes | Yes |
| System Requirement | | | |
| Recommended | Intel Core i7 3.4GHz, 8GB of RAM, 500GB HDD, Radeon 1024MB PCI-E Graphic Cards, Support AGP Accelate, Support PCI-E 2.0 16x or higher, 100/1000 Ethernet NIC, Sound Card, Windows 7 | | |
| Minimumage | Intel Core2Duo 2.93GHz, 2GB of RAM, 100GB HDD, 128MB Graphic Card, Support AGP Accelate 10/100/1000 Ethernet NIC, Sound Card, Windows XP | Intel Core2Quad 2.40GHz, 4GB of RAM, 500GB HDD, 256MB PCI-E Graphic Card, Support AGP Accelate, 10/100/1000 Ethernet NIC, Sound Card, Windows 7 | |



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