HD-CCTV Products & Solutions

Premium to your HD-CCTV

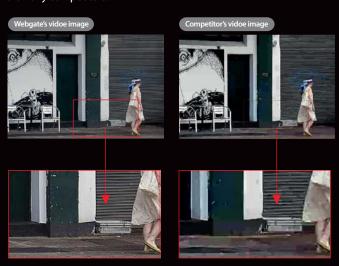


WEBGATE

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.

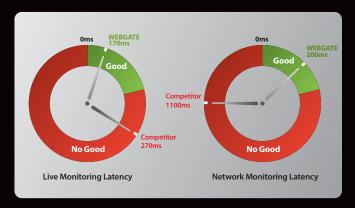


Multi-Streaming Technology

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 recive 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 develope 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

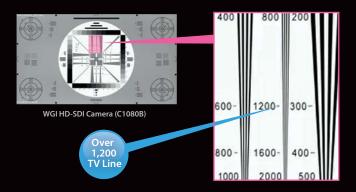
WebEye is a mobile application for DVR that supports iOS and Android. An operator can register DVRs, monitor video, and control PTZs.



Model	HD1600M	HD1600M HD800H		HD400F HD400H				
Channel	16 8		4	4	4			
Design	. 0 100011		- 0	- 0	Marine Daniel D			
Video Input	HD-SDI (SMPTE 292M): 1080p or 720p at 25/30 fps							
Video Output		HDMI/VGA (1920 x 1080p)		HDMI (1920x1080p)			
Recording Speed	120/100fps at 1080p				30/25fps at 1080p 60/50fps at 720p			
Recording Mode		Manual & Eve	nt / Schedule & Evnet / Conti	nous & Evnet				
Playback		•	s at 1080p ps at 720p		30/25fps at 1080p 60/50fps at 720p			
Search Type		Time, Calendar, Event, Thumbnail						
Event Source	Motion Detection, Sensor, Text							
Event Action	Buzzer, Relay, E-mail, Twitter, FTP, Alarm pop-up							
Text Input	Pos/ATM support, AVEVSI Pro/Hydra support							
Audio	4ch input / 1ch output 4ch RCA input 16KHz, 16bit sampling ADPCM / HDMI output							
Network	10/100 Ethernet, Giga Ethernet for Storage (NVS04R) 10/100 Ethernet							
Multi Streaming	3 different streams (Rocording / Network / Mobile) Dual streams (Rec/Network)							
User Account	1 admin, 10 users							
Storage		4 internal HDDs, 1 eSATA, N	Network Storage (NVS04R)		1 internal HDDs, 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			
Software	Control Center (CMS), Web Viewer, Java Viewer, Mobile Viewer (iPhone / Android), SDK							
Dimension		290(W)x230(D)x68(H)mm						
Weight	10Kg (No HDD) 9.5Kg (No HDD) 9.5Kg (No HDD) 9.5Kg (No HDD)				2.5Kg (No HDD)			
Power	AC free volt (100~240VAC)							
Approval	KC, FCC, CE, RoHS, HDcct							

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.







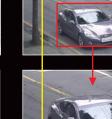
Motion Blur

Motion Blur

[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





Smart IR-LED

WDR: Smart Backlight Compensation

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





3DNR: Powerful 3-Dimensional Digital Noise Reduction





C1080B 3DNR OFF

C1080B 3DNR ON (high)

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)

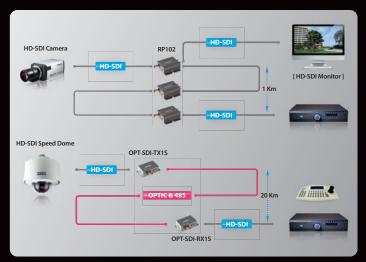
At very dark environment, DSS function accumulates the light into the sensor pixels, and provides visible video image as a result.

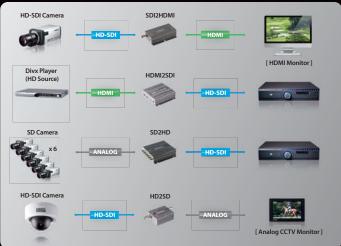
Model	C1080PT-Z20	C1080B	C1080BM	C1080BL-IR18-AF	C1080BL-IR48-AF				
Design		CO Tame							
Chipset			1/3"2.1Megapixel CMOS						
Video Output			HD-SDI (SMPTE 292M)						
Resolution	35/25fps@1080p 60/50fps@720p								
Lens	X20, Optical Zoom	CS / C (Ring Adaptor) CS / C (Ring Adaptor) DC Iris, 2.8mm~10mm, F1.2, IR Corrective Mega Pixel Le							
Auto Focus	-	-	-	0	0				
LEDs	-	-	-	18	48				
Function			3DNR/WDR/DSS/BLC/AGC						
Upgrade Firmware / OSD (RS485)	Only OSD Control	0	0 0		0				
IP66	0	-	-	0	0				
Power	AC24V	DC12V DC12V AC24V / DC12V							
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 118(D) x 198(H) mm	120(W) x 140(D) x 254(H) mm				
Weight	6Kg	350g (Lens not include)	320g (Lens not include)	720g (1.6 lbs)	1600g (3.5 lbs)				

Model	C1080D	C1080D-IR	C1080D-AF	C1080D-IR-AF	C1080VD	C1080VD-IR	C1080VD-AF	C1080VD-IR-AF	
Design	131111	· inni		NINET CONTRACTOR		Sim.			
Chipset				1/3″2.1Me	egapixel CMOS				
Video Output				HD-SDI (SMPTE 292M)				
Resolution			3	35/25fps@1080p, 6	0/50fps@720p (Clip	oping)			
Lens	DC Iris, 2.8~10mm, F1.2, IR Corrective Mega Pixel Lens								
Auto Focus	-	-	0	0	-	-	0	0	
LEDs	-	24	-	24	-	24	-	24	
Function				3DNR/WDR/[DSS / BLC / AGC				
Upgrade Firmware / OSD (RS485)	0	0	0	0	0	0	0	0	
IP66	-	-	-	-	0	0	0	0	
Power	AC24V/DC12V								
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		-The world's first HDcctv certified repeater - HD-SDI repeater & distributer - BNC 1ch input / 2ch output - Auto detection on input image	- Transmission distance expandable using multiple repeaters - HD-SDI transmission distance : Approx. 200m(650 ft.) of RG6 or 150m(490 ft.) of RG59 Power, Link LED indicator
SDI2HDMI	4	-The world's first HDcctv certified converter - HD-SDI to HDMI converter - BNC input / HDMI output - HDMI embedded audio output	- HD-SDI transmission distance : Approx. 200m(650 ft.) of RG6 or 150m(490 ft.) of RG59 - Power, Link LED indicator
HDMI2SDI		- HDMI to HD-SDI converter - Auto detection on input image - HD-SDI embedded audio & RCA audio output	- Mode selection switch for video output format selection - Power, Link LED indicator
SD2HD		- CVBS to HD-SDI converter - Max 6ch CVBS signal input - NTSC/PAL switch selectable - 1/4/6ch output selectable	- 16:9, 4:3 video ratio mode - HD-SDI transmission distance : Approx. 200m(650 ft.) of RG6 or 150m(490 ft.) of RG59 - Power LED indicator
HD2SD		-The world's first HDcctv certified converter - HD-SDI to CVBS converter - HD-SDI 1080p & 720p video format - Auto detection on input video	- Auto standby mode for power saving - Full screen (16:9), Zoom-in mode (4:3) output - 50/60Hz system compatible - Power, Link LED indicator
OPT-SDI-TX1/RX1		- HD-SDI optical transceiver - 3G/HD/SD high resolution video signal support - Max. 20Km(12.4mi) signal transmission(1.5Gbps)	- BNC connector for HD-SDI and ST type fiber connector - Robust metal die-casting enclosure for harsh environment - Power, Link LED indicator
OPT-SDI-TX1S/RX1S	C.A.	- HD-SDI optical transceiver - 3G/HD/SD high resolution video signal support - Max. 20Km(12.4mi) signal transmission(1.5Gbps) - One directional RS485 communication support	- Automatic shutdown of laser head to extend the laser life (input signal detection) - Overload protection and automatic recovery - Power, Link LED indicator
WKC-100	Mi mini	- Support 255 DVRs, 255 SPD connection - Control unit, channel of CMS - Support RS485/422/232 port	- Control camera connected to PTZ channel via DVR and CMS - Control preset, tour, pattern, group and other major features - Support various protocol (Pelco-D, Pelco-P and so on)

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		7777	
Feature	- Extended Storage Device for DVR - Support MH & HD DVR Series of Webgate HD series: Max 64TB with cascaded NV504R MH series: Max 32TB with cascaded NV504R - 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)	- 1U/4Bays, eSATA - SATA II RAID sub-system - RAID 0,1,0+1,3,5, and JBOD - eSATA (3Gbps) host interface - Multi volume host access - 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	- 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

mage 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	SPD350M	B101M	D101M	NVS04S
Design			9033		
Feature	- 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@8&W, 0.5lux@Color -1/3"1.3M CMOS Sensor - Bi-Directional Audio (1CH Input/Output)	- 1CH MPEG-4 High Definition Network Speed Dome Camera - Support Multi Streaming(Max.8) at D1/60fps) - x35 Optical Zoom (x12 Digital Zoom) - Built-in Image Stabilization Circuit, 360-Degree Spin - Bi-Directional Audio (RCA type)	- 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 Browserk	- 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)	- 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 Intergraded 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 M	ain) / 2 DVI	2 BNC (2 Main) /1DVI	2 BNC (1 Main, 1 Spot) / 1 DVI			2 BNC (1 Main, 1 Spot) / 1 VGA	
Recording Speed	960/900fps 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 &	Eevent / Schedule	& Event / Contino	us & Event		
Search Type				Time, Calenda	ır, Event, Thumbna	il		
Event Source				Motion Det	ection, Sensor, Tex	t		
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	Giga Eth	10/100 Ethernet , pernet for Storage(NVS04R)			10/100 Ethernet		
Multi Streaming			3 differ	ent streams (Roco	rding / Network / I	Mobile)		
User Account				1 adr	min, 10 users			
Storage		ternal HDDs, 1 eSA vork Storage (NVS		2 internal HDDs, 1 eSATA 2 internal HDDs				
Capacity		Max 8TB with SATA ax 32TB with NVS0				Max 8TB	with SATA	
Mirroring		Supported				Not Sup	pported	
Backup	DVD or USB (2 Ports) DVD(Option) or USB (2 Ports)						or USB (2 Ports)	
Serial Port				1 RS-2320	C, 2 RS-485			
Sensor In/Out	16 input / 4 realys			16 input / 2 realys	8 input / 2 realys	4 input / 2 realys	16 input / 2 realys	8 input / 2 realys
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 413(D) x 88(H) mm							
Weight	9.5 Kg (No HDD) 8.0 Kg (No HDD)							
Power	AC free volt (100~240VAC)							
Approval		FCC, CE, MIC, RoHS						

Software **Solution**



Integrated Control Solution

Integrated Control Software

> Control Center Standard

Control Center Pro

Control Center Enterprise

- Central Monitoring Program supporting Max. 1024 units
- 64 Screen Division Monitoring
- Capable of Managing Multi Monitors in 1 PC

(Std: 2, Pro: 6, Ent: 4+50 Extended Monitor)

- Status&Action Panel displaying Status of Connected Unit
- Graphically
 Auto Backup Function of DVR
- via Schedule Backup Function - Support All Range of Webgate Unit's Connection from IP Camera, NVR to DVR
- High Performance Video Engine Capable of Displaying 12 Full-HD Streams in Real Time
- Calendar, Time Line, Event, Text, Smart. Thumbnail
- Support USB or Customized Joystick Keyboard (WKC-100) (Pro. Ent)
- Playback/Search/Backup Copy Function of HDD Removed from DVR

Streaming solution

Win RDS

- 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

- Easy and Efficient integration
- Support all ranges of WEBGATE product features
- Support various languages (VB,VC++,VB Script, Java Scriptm, .net)
- Supportable platform : Windows XP / Vista / 2008 / Windows 7

Mobile solution

WebEye for iOS

WebEye for

- Mobile Viewer for iPhone / Android Phone
- Support MD/LH/EH/MH/HD series

Android

- DVRs - Max. 16 DVRs Support
- Dynamic IP unit connection
- Support QCIF / CIF / Half / D1 / 720p /1080p resolutions
- 4 screen division monitoringStreaming 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

Dynamic IP solution

WRS

WNS

- -WRS and WNS are solutions enabling remote user to access to units having dynamic IP.
- WRS(WebGate Registration Service, www.webeye.to) is different from DDNS service where complicated procedure such as member register, unit register are not required but easy to find my unit having dynamic IP and register it from Control Center.
- -WNS(WebGate Naming Service, www.mycam.to) is DDNS service, changing IP address managed by WRS server into domain name address. It is required service when user access to unit not from Control Center but from web browser



WEBGATE HD-CCTV Solution provider

WebGate Div.
Daemyung Enterprise Co.,Ltd.

6F, Hanlim Venture Town B/D, 689-6 Geumjeoung-Dong, Gunpo-si, Gyeonggi-do, Korea (435-862)
T. +82. 31. 428. 9333 F. +82. 31. 455. 3955
www.webgateinc.com sales@webgateinc.com