

REAL-TIME 1080p RECORDING



THE ONE HD-SDI DVR

Innovative Features and Ultra Friendly

By AMEBA TECHNOLOGY

Explore HD

Complete HD-SDI Solution



What is HD-SDI?



High Definition - Serial Digital Interface

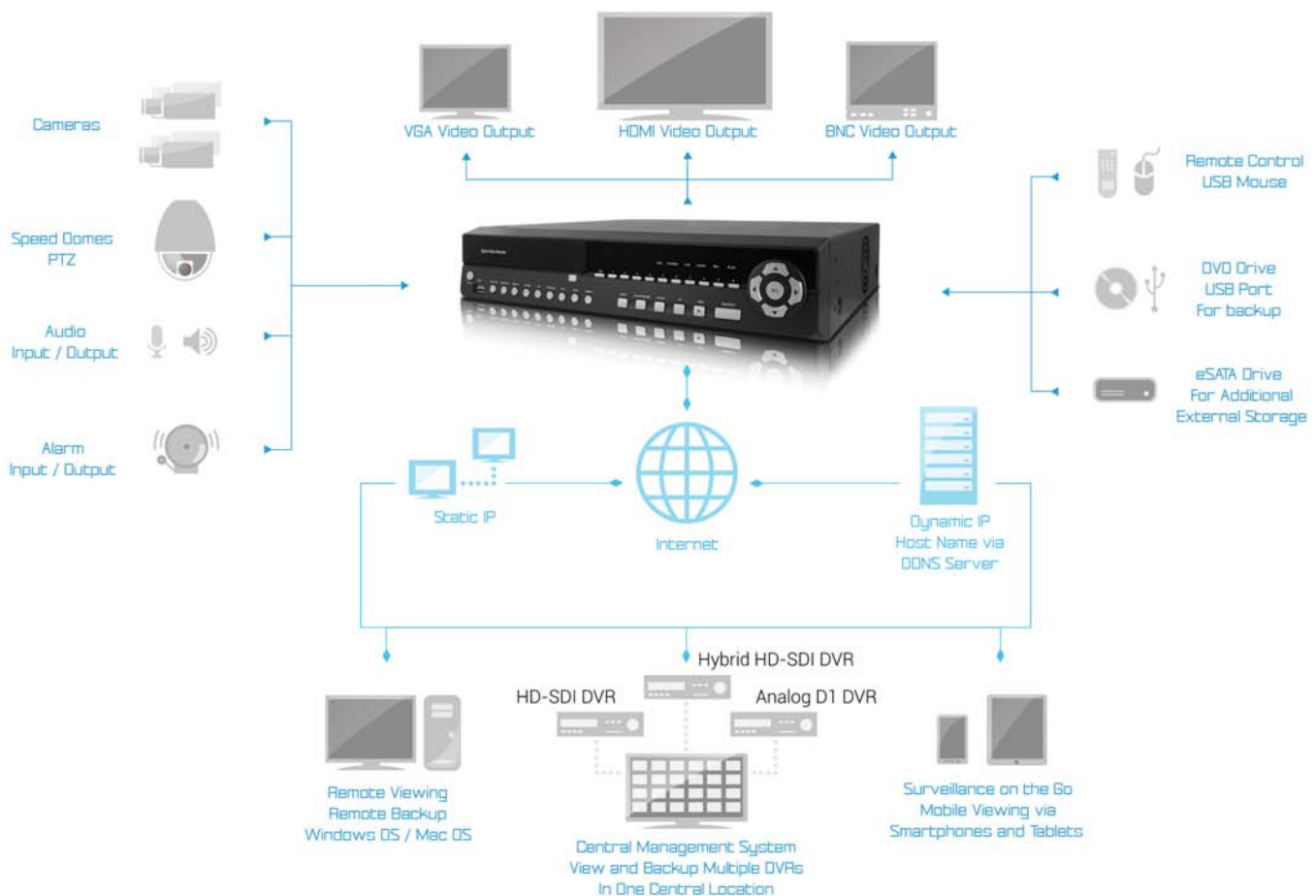
HD-SDI allows for high definition uncompressed digital video transmission over coaxial cables.

While this technology is not new, it was predominately used only by professional TV broadcast studios.

As the digital era evolves, more people are demanding for affordable high definition surveillance equipments.

HD-SDI is here to answer.

System Configuration



HDMI Full HD 1080p

High definition videos are displayed through HDMI connection to the HD TVs. With a maximum resolution of 1920x1080 Full HD, high detailed and stunning pictures capture every important detail. In addition to HDMI, VGA and BNC video outputs are convenient for multiple monitors installation.



Auto-Adjust to Screen Ratio

Auto adjust from 4:3 standard screen to 16:9 wide screen aspect ratio. In wide screen mode side control panels can be turned on for easy access to frequently used functions. (Feature available on TP and HD Series)



eSATA External Storage

On typical DVRs the available storage is limited by how many internal hard drives can physically fit within the DVR's case. With eSATA external connection, this limitation is lifted allowing for much greater storage space to accommodate the increasing demand for longer recording periods.



Cross Platform Viewing

Remote desktop software supports both Windows OS and Mac OS for remote viewing. The remote desktop software can be downloaded directly from the DVR when connected using the web browser.



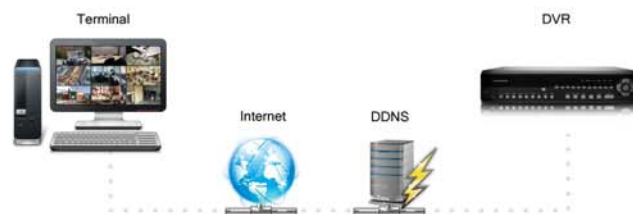
Mobile Viewing

Surveillance on the go, anytime, anywhere. These days everything is going mobile, surveillance is no exception. Mobile apps are downloadable directly from the app store and marketplace on iPhones, iPads and Android devices. Installation files are provided for BlackBerry, Windows Phone and Symbian devices.



Dedicated DDNS

With the high cost of leasing a static IP from the internet service providers, more end users are saving cost with dynamic IP addresses. With dynamic IP the users need to constantly check the current IP if they want to connect to their DVR. This is where DDNS service comes in. DDNS service provides the user with a static hostname of their choosing that will never change. In the background the DVR will sync its current IP with the hostname automatically. When users enters the hostname they will be directed to the correct IP.



Central Management System

CMS (Central Management System) provides an administrative solution for managing multiple surveillance sites. This powerful management tool enables users to not only monitor but also control all their DVRs remotely from one centralized location. With features such as eMap management, instant or scheduled recording, event playback, and alarm notifications the CMS gives all the tools you need at your fingertips. Up to 64 channels can be multiplexed onto one screen and the software allows as many connections to DVRs as your network bandwidth can support.



• Monitor multiple remote sites at one central location

HD-SDI

TP-Series

Full 1080p HD



Features

1080p
Real Time
Recording

- ▶ 4/8/16 HD-SDI (1920x1080) Video Inputs
- ▶ Real-Time Full HD 1080p 480FPS Recording
- ▶ HDMI 1080p (1920x1080) Full HD Video Output
- ▶ Up to 16 Channel Audio Recording
- ▶ CMS with E-Map Support
- ▶ Dedicated Ameba DDNS Service
- ▶ Backup via USB/Remote PC/ DVD-RW (Optional)
- ▶ Supports eSATA HDD for High Capacity Storage
- ▶ 16:9 Wide Screen or Standard 4:3 Display
- ▶ Supports both Mac OS and Windows
- ▶ On Screen PTZ Controls (RS-485)
- ▶ Touch-Panel LCD Monitor Supported
- ▶ Mobile Viewing with Smartphones and Tablets
- ▶ Supports up to 6 Internal HDD
- ▶ Simultaneous Multiple Monitor Outputs, HDMI, VGA, BNC
- ▶ User Friendly GUI

DVR-4HD-N [4Ch HD-SDI]



DVR-4HD [4Ch HD-SDI]



DVR-8HD [8Ch HD-SDI]



DVR-16HD [16Ch HD-SDI]



Why HD-SDI?

Ease of installation -

HD-SDI can be installed over the existing coaxial infrastructure without rewiring. Only the DVR and the cameras need to be replaced which lowers installation cost.

Mega Pixel video -

Full HD 1080p (1920x1080) digital video transmission. Having a massive 1.485Gbps bandwidth, HD-SDI can send raw uncompressed digital signals with no loss in video quality.

Crystal Clear images -

High definition digital video transmission over coaxial infrastructure. Ultra clear images enables super fine details to be captured where traditional analog systems could not. Uncompressed digital transmission means there will be no quality loss due to compression. Typical range of HD-SDI is 300 ft. or 100M. This ranged can be extended with our repeaters.

Full HD
1080

1080p compared to D1

When viewing on a 1080p compatible TV or monitor, HD-SDI DVR's massive 1920x1080 resolution creates exceptionally detailed and rich videos that conventional D1 analog DVRs cannot match.



Mobile App

With the explosive growth in wireless technology, remote viewing of your surveillance equipment has taken a tremendous leap toward mobilization. We are no longer limited to sitting down in front of a computer to view our cameras. Now with mobile app for your smartphones you have the freedom to view your cameras whenever and wherever you go.



HD-SDI DVR

Model		DVR-4HD-N DVR-4HD	DVR-8HD	DVR-16HD
Video	Camera Input	4 Channel	8 Channel	16 Channel
	Input	4 x HD-SDI	8 x HD-SDI	16 x HD-SDI
	HDMI Output w/ Audio Output	1 x HDMI Output (1920x1080, 1024x768, 1280x1024, 1366x768, 1440x900) 1 x VGA (1920x1080, 1024x768, 1280x1024, 1366x768, 1440x900) + 1 x BNC (720x480) (Main)		
Audio	Input	4 x RCA	8 x RCA	8 x RCA
	Output		2 x RCA	
System	Operating System	Embedded Linux OS		
	Internal HDD	3 x HDD Max for DVR-4HD-N	Supports Max. x 7 SATA Devices (HDDx6+eSATAx1, HDDx4+DVDx1+eSATAx1)**	
	External HDD	Yes (eSATA)		
	Sensor In, Relay Out	Sensor-in x 4, Relay-Out x 4	Sensor-in x 8, Relay-Out x 4	Sensor-in x 16, Relay-Out x 4
	Serial Interface	RS-485		
	USB	2 x USB 2.0		
	Dimension WxHxD	442 x 92 x 438mm / 17.4" x 3.63" x 17.25"		
	Weight (w/o HDD/DVD)	5KG / 11 lbs.		
	Power Supply	220V/110V		
Display	Power Consumption	220W		
	Frame Rate	120fps @ 1080p/720p	240fps @ 1080p/720p	480fps @ 1080p/720p
	Resolution		1920 x 1080 / 1280 x 720	
	Split Screen	1, 4, Seq.	1,4,8, Seq.	1,4,8,16, Seq.
	Auto Channel Switching Mode		Switching time: 1~99 sec. Zoom (Digital x2~x8), PIP, Auto Seq.	
Recording	Compression	H.264 High Profile		
	Recording Resolution	1920 x 1080, 1280 x 720		
	Network Resolution	640 x 360 / 320 x 180		
	Picture Quality	10~100 levels of adjustment		
	Mode	Normal, Manual, Event, Schedule		
	Frame Rate	120 fps @1080p	240 fps @1080p	480 fps @1080p
	Pre-Alarm	1~10 Sec.		
	Post-Alarm	1~100 Sec.		
Playback	Watermark	Yes		
	Display	1,4	1,4,8	1,4,8,16
	Search Mode	Date, time, Event (Motion, Sensor)		
	Zoom	Digital (x2 - x8)		
	Snapshot	Yes		
	Playback Speed	Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16, 32), REW(4, 8, 16, 32), Frame Step		
Network	Device	Internal HDD		
	Network Interface	10/100/1000 Ethernet		
	Protocol	TCP/IP, SMTP, HTTP, DHCP, PPPoE (ADSL), NTP, DDNS		
	Remote OS	Windows XP/VISTA/7 and Mac OS 10.6 +		
	Remote Software	iWatch DVR, IE Browser		
	Accounts	1 Admin + 8 Users		
	CMS	CMS for Windows XP, WIndows Vista, Windows 7		
	Mobile Device	Symbian, Windows Mobile, Blackberry, iPhone, Android, iPad, Android Tablets		
Backup	Event Notification	Email		
	Interface	USB 2.0 or SATA		
	Audio Backup	Yes		
	Network	Yes		
Alarm	Backup Device	Network Backup / USB flash drive / USB DVD±RW / SATA DVD±RW (Optional)		
	Motion Detection	Sensitivity: 100 levels for each Channel, Area: Programmable individually		
	Search (Event Criterion)	Yes		
OSD & DVR Control	Event Log	Up to 10,000 Events (Sensor,Motion,Video Loss,PowerOn,Remote Login,Logout,HDD error,HDD full)		
	GUI	32-bit True Color		
	Multi-Language	English, Spanish, French, Korean, Chinese, Japanese, German, Portuguese, Italian, Russian, Greek, Polish, Hungarian, Dutch, Hebrew, Thai		
	Camera Title	Multi-Language		
	USB Mouse	Yes		
	Touch Panel	Touch Panel LCD Monitor (USB Interface, EETI Chipset Only)		
	Remote Controller	IR Remote Control (Max. 4 Devices)		
	System Upgrade	Via USB/Network		
	Pan/Tilt/Zoom/Control	Control from RS-485 Interface (Pelco P, Pelco D, Samsung, LG, LiLin)		

* Specifications Subjected to Change Without Prior Notice

** 4HDN: Max. 4 x SATA Devices(HDDx3+eSATAx1, HDDx2+DVD±RWx1+eSATAx1)



HYBRID

TP-Series

HD-SDI + Analog



Features

- ▶ HD-SDI + Analog Video Inputs
- ▶ Real-Time Full HD 1080p Recording
- ▶ Real-Time D1 Recording
- ▶ HDMI 1080p (1920x1080) HD Video Output
- ▶ Audio Recording
- ▶ CMS with E-Map Support
- ▶ Dedicated Ameba DDNS Service
- ▶ Backup via USB/Remote PC/ DVD-RW (Optional)
- ▶ Supports eSATA HDD for High Capacity Storage
- ▶ 16:9 Wide Screen or Standard 4:3 Display
- ▶ Supports both Mac OS and Windows
- ▶ On Screen PTZ Controls (RS-485)
- ▶ Touch-Panel LCD Monitor Supported
- ▶ Mobile Viewing with Smartphones and Tablets
- ▶ Supports up to 4 Internal HDD
- ▶ User Friendly GUI

Why Hybrid?

Adding HD to existing systems -

Have existing analog cameras but also want to install a few HD cameras? No problem, go hybrid. Hybrid DVRs can accept both conventional analog cameras and digital HD-SDI cameras.

Mega Pixel video (on HD-SDI Channels) -

Full HD 1080p (1920x1080) digital video transmission. Having a massive 1.485Gbps bandwidth, HD-SDI can send raw uncompressed digital signals with no loss in video quality.

Crystal Clear images (on HD-SDI Channels) -

High definition digital video transmission over coaxial infrastructure. Ultra clear images enables super fine details to be captured where traditional analog systems could not. Uncompressed digital transmission means there will be no quality loss due to compression. Typical range of HD-SDI is 300 ft. or 100M. This range can be extended with our repeaters.



1080p compared to D1

When viewing on a 1080p compatible TV or monitor, HD-SDI DVR's massive 1920x1080 resolution creates exceptionally detailed and rich videos that conventional D1 analog DVRs cannot match.

DVR-1HD8 [9 Channels, 1x HD-SDI + 8x Analog]



DVR-2HD8 [10 Channels, 2x HD-SDI + 8x Analog]



DVR-4HD16 [20 Channels, 4x HD-SDI + 16x Analog]



Mobile App

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HYBRID DVR

Model		DVR-1HD8	DVR-2HD8	DVR-4HD16
Video	Camera Input	9 Channels	10 Channels	20 Channels
	Input	HD-SDI Camera x 1 + Analog Camera x 8	HD-SDI Camera x 2 + Analog Camera x 8	HD-SDI Camera x 4 + Analog Camera x16
	HDMI Output w/ Audio	1x (Optional) [1280x1024]	1x (1920x1080, 1024x768, 1280x1024, 1366x768, 1440x900)	1x (1920x1080, 1024x768, 1280x1024, 1366x768, 1440x900)
	Output (VGA)	1 x (800x600, 1024x768, 1280x1024)	1 x (1920x1080, 1024x768, 1280x1024, 1366x768, 1440x900)	
	Output (BNC)		1 x BNC (720x480) (Main)	
Audio	Input	8 x RCA		20 x RCA
	Output	2 x RCA		
System	Operating System	Embedded Linux OS		
	Internal HDD	Max. x4 SATA Devices (Max. 3 x HDD)		Max. x7 SATA Devices (Max. 6 x HDD)
	External HDD	Yes (eSATA)		
	Sensor In, Relay Out	Sensor-in x 9, Relay-Out x 2	Sensor-in x 10, Relay-Out x 2	Sensor-in x 16, Relay-Out x 4
	Serial Interface	RS-485		
	USB	2 x USB 2.0		
	Dimension WxHxD	430 x 55 x 293mm / 16.93" x 2.17" x 11.54"		442 x 92 x 438mm / 17.4" x 3.63" x 17.25"
	Weight (w/o HDD/DVD)	0.85KG / 4.08 lbs.		5KG / 11 lbs.
	Power Supply	Input 100~240V. Output 12V 6A		220V/110V
	Power Consumption	72W		220W
Display	Frame Rate	720p 30fps, D1 240 fps	1080p/720p 60fps, D1 240 fps	1080p/720p 120fps, D1 480 fps
	Resolution	720p / 720x480	1080p / 720p / 720x480	
	Split Screen	1, 4, 9, Seq.	1, 4, 10, Seq.	1, 4, 9, 13, 20, Seq.
	Auto Channel Switching	Switching time: 1~99 sec.		
	Mode	Zoom (Digital x2~x5), PIP, Auto Seq.		
Recording	Compression	H.264 High Profile		
	Recording Resolution	720p for HD 1 704x480, 704x240, 352x240 for CH 2~9	1080p/720p for HD 1~2 704x480, 704x240, 352x240 for CH 3~10	1080p/720p for HD 1~4 704x480, 704x240, 352x240 for CH 5~20
	Network Resolution	352x240, 176x120 (NTSC), 352x288, 176x144 (PAL)		
	Picture Quality	10~100 levels for adjustment		
	Mode	Manual, Motion, Sensor, Schedule		
	Frame Rate	720p 30 fps (for HD 1) & D1 45 fps (for CH2~8) Or Max. D1 120 fps (for 9 Channels)	1080p 60 fps (for HD 1, 2) D1 240 fps (for CH 3 ~ CH 10)	1080p 120 fps (for HD 1~4) D1 480 fps (for CH 5 ~ CH 20)
	Pre-Alarm	10 Sec.		
	Post-Alarm	1~100 Sec.		
	Watermark	Yes		
	Playback	Display	1, 4, 9	1,4,10
Search Mode		Date, time, Event (Motion, Sensor), Camera		
Zoom		Digital (x2 - x5)		
Snapshot		No	Yes	Yes
Playback Speed		Play, Pause, Stop, Slow(1/2, 1/4, 1/8), FF(4, 8, 16), REW(4, 8, 16), Step		
Network	Device	Internal HDD		
	Network Interface	10/100 Ethernet	10/100/1000 Ethernet	
	Protocol	TCP/IP, SMTP, HTTP, DHCP, PPPoE (ADSL), NTP, DDNS		
	Remote OS	Windows XP/VISTA/7 and Mac OS 10.6 +		
	Remote Software	iWatch DVR, IE Browser		
	Accounts	1 Admin + 10 Users	1 Admin + 8 Users	
	CMS	CMS for Windows XP, Windows Vista, Windows 7		
	Mobile Device	Windows Mobile, Blackberry, iPhone, Android, iPad, Android Tablets		
Backup	Event Notification	Email		
	Interface	USB 2.0 or SATA		
	Audio Backup	Yes		
	Network	Yes		
Alarm	Backup Device	Network Backup / USB flash drive / USB DVD±RW / SATA DVD±RW (Optional)		
	Motion Detection	Sensitivity: 100 levels for each Channel, Area: Programmable individually		
	Search (Event Criterion)	Yes		
OSD & DVR Control	Event Log	Up to 10,000 Events (Sensor,Motion,Video Loss,PowerOn,Remote Login,Logout,HDD error,HDD full)		
	GUI	16-bit True Color	32-bit True Color	
	Multi-Language	English, Spanish, French, Korean, Chinese, Japanese, German, Portuguese, Italian, Russian, Greek, Polish, Hungarian, Dutch, Hebrew, Thai		
	Camera Title	Multi-Language		
	USB Mouse	Yes		
	Touch Panel	Touch Panel LCD Monitor (USB Interface, EETI Chipset Only)		
	Remote Controller	IR Remote Control (Max. 4 Devices)		
	System Upgrade	Via USB/Network		
	Pan/Tilt/Zoom/Control	Control from RS-485 Interface (Pelco P, Pelco D, Samsung, LG, LiLin)		

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AMEBA TECHNOLOGY

Repeaters Converters

- STH-1** HD-SDI to HDMI Converter
- HTS-1** HDMI to HD-SDI Converter
- STS-1** HD-SDI Repeater/Booster (1 in, 2 out)
- STS-4** HD-SDI Repeater/Booster (4 in, 4 out)



DAS

- ST7610-4s** External eSATA HDD Storage, 1U Rack Mount
- ST7610-8s** External eSATA HDD Storage, 2U Rack Mount



THE ONE 2.1MP 1080p HD-SDI Cameras

IR Bullet Camera



TP-HDF5

IR Dome Camera



TP-HDF30

IR Bullet Camera



TP-HDF5L

AVF IR Dome Camera



TP-HDF33

Vandal Dome Camera



TP-HDF35G



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