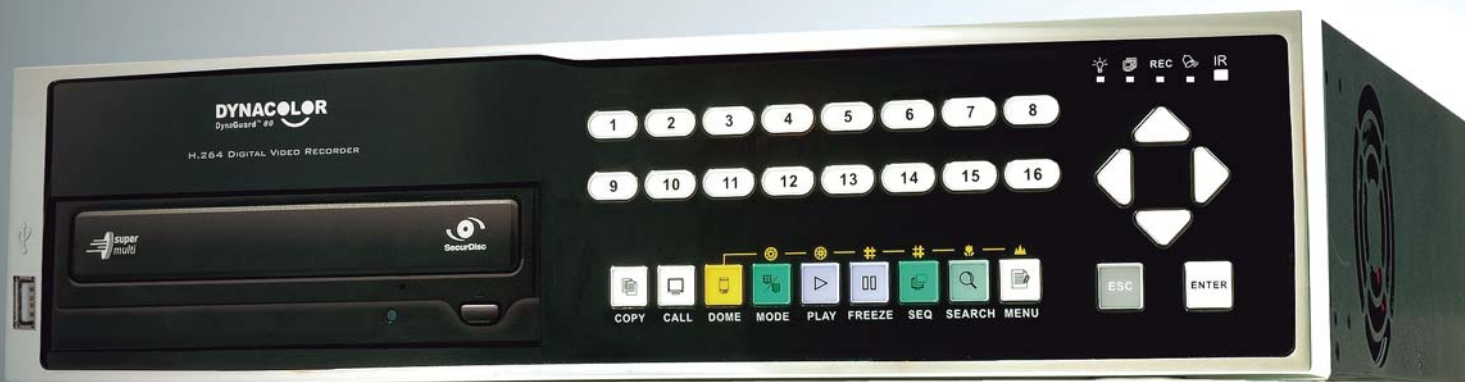


# Versatile H.264 DVR



## network DynaGuard™ 80 Series

The network DynaGuard™ 80 series is a versatile DVR which offers H.264 compression engine for the efficient management of HDD usage. As a member of network DVR series, the DG80 series also provides Megapixel IP camera compatibility for up to 4 channels. The Dual-Codec recording setup function enables user to select the recording scenario from H.264 / MJPEG compression engine to ensure the picture quality or save the HDD space in the different applications. By the implementation of the GUI, Triplex Operation, NTP and Mobile View software functions, the DG80 series optimizes the secure environments. The DynaRemote™ and DynaGuard™ CMS (Central Management System) softwares offer the convenience of distant accessibility for remote system control. Furthermore, the optional Unshielded Twisted Pair (UTP) connection reduces cost for the users from the expensive coaxial cabling.

**Features**

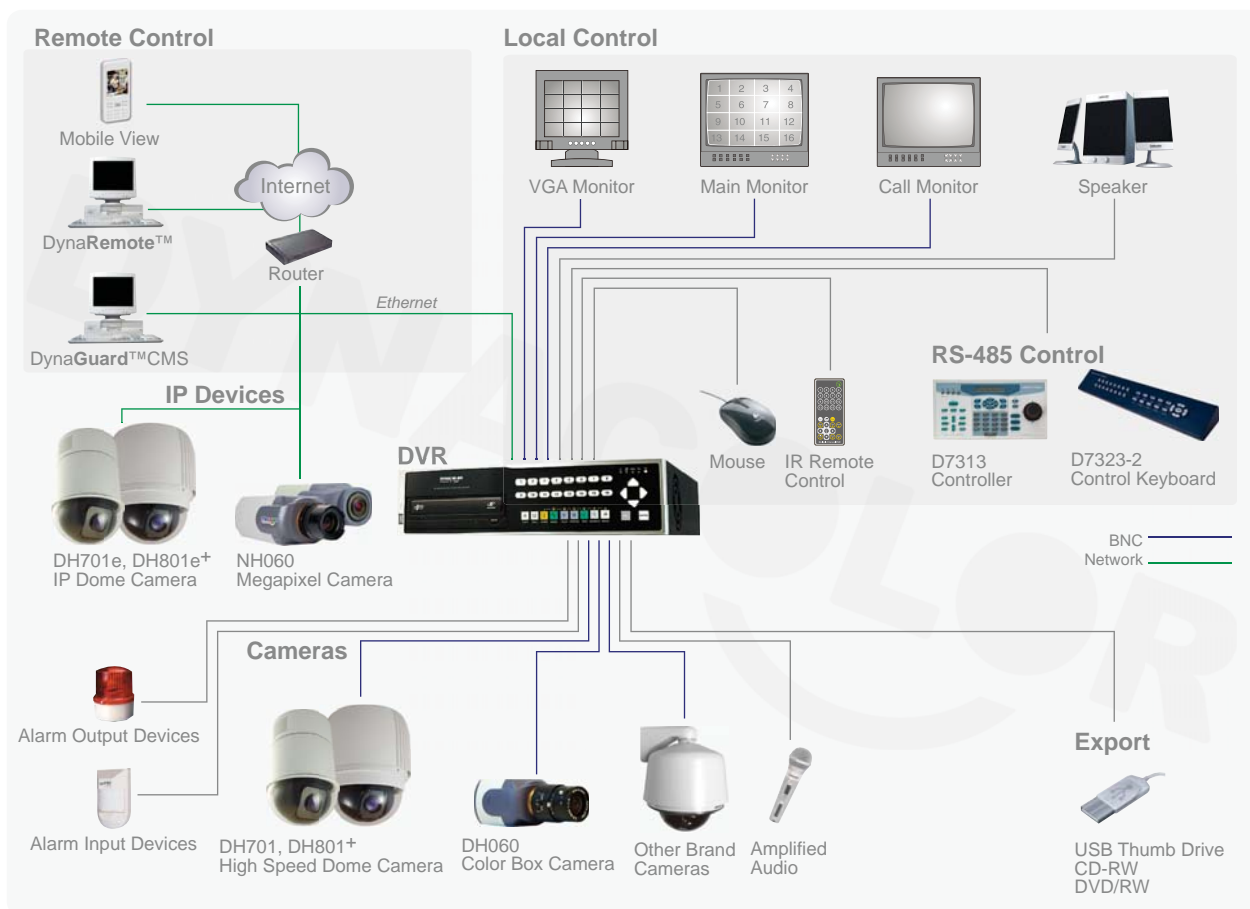
**Advanced Functions**

- Triplex Operation: Live/Playback, Record, Network
- Supports up to 3 internal SATA HDDs
- Supports internal DVD/RW
- UTP connection (Optional)
- Dual-Codec for H.264 / MJPEG recording **NEW**
- Supports up to 4ch IP camera(s) **NEW**
- Supports recording of Megapixel IP camera(s) **NEW**
- Per Channel Configuration
- Supports NTP for time synchronization
- Supports Mobile View software
- Supports Pre-Alarm Recording
- Motion Detection Marker
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for large-scale video management

**Humane Technology**

- Graphical User Interface (GUI) **NEW**
- Touch panel **NEW**
- IR Remote Control (Optional)
- USB mouse (Optional)
- Compact Control Keyboard (Optional)

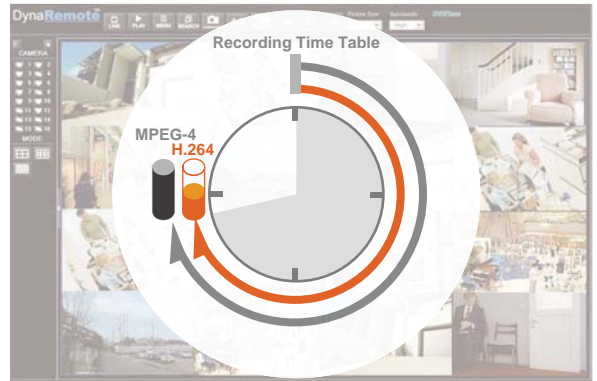
**System Configuration**



## Product Description

### H.264 compression engine

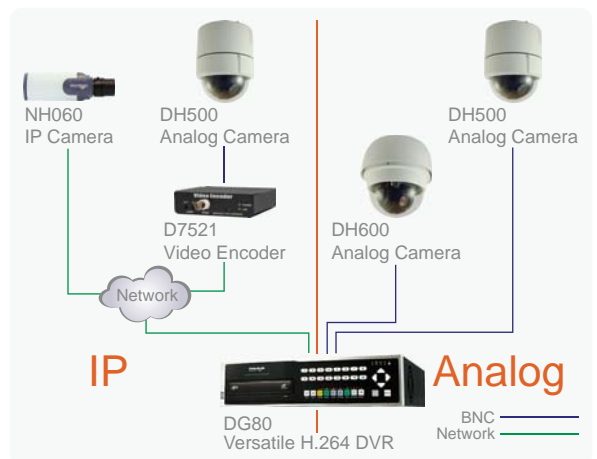
The network DynaGuard™ 80 series adopts H.264 technology, a new video compression scheme that gradually becomes the worldwide digital video standard. Through its benefits of providing higher video quality/ resolution at a given bit-rate and lower storage requirement, the H.264 is capable of offering greater flexibility in compression options and transmission support. To meet various applications and surveillance requirements, the DG80 series provides selectable MJPEG compression technology in addition.



H.264 compression saves HDD space and enhances the recording duration

### IP camera compatibility

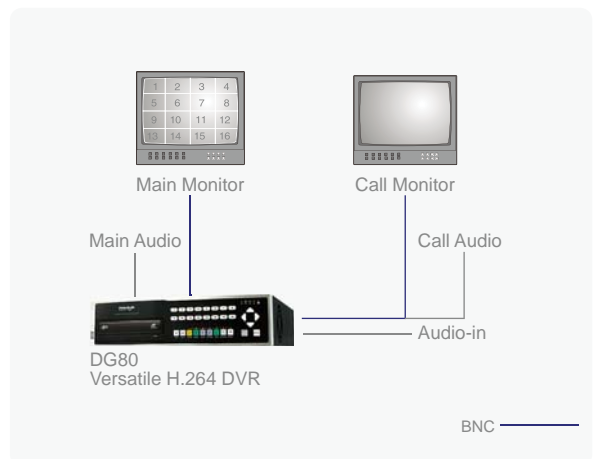
The network DynaGuard™ 80 series is capable of connecting both IP devices and analog cameras; all models are allowed to connect 4 IP cameras, including Megapixel cameras. In addition, DG80 series provides user-define and 6 preset configurations of the most popular IP cameras. With the inclusive integrated functions, the DG80 series becomes the control center for IP networking by offering a value-added hybrid recording solution.



The DG80 series supports Megapixel IP camera recording

### Advanced audio recording

The network DynaGuard™ 80 series supports full channel audio input with corresponding videos. Users can record video of each channel relative to its audio separately. Furthermore, the audio can be played sequentially with consistent video through call audio output function. With the advanced audio recording functions, the DG80 series creates a robust surveillance environment for users.



The DG80 series outputs audio to both main and call monitors simultaneously

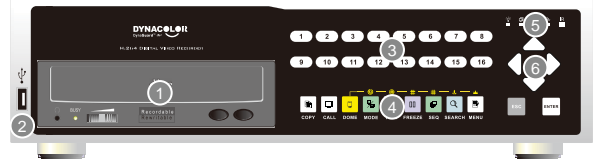
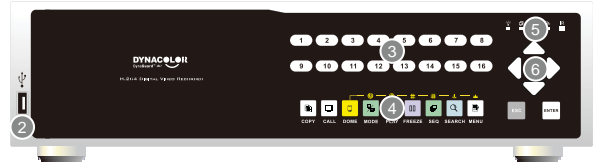
## Technical Specification

Item	DG84	DG88	DG86
<b>Video</b>			
Operation System	Embedded (Linux)		
Input	BNC x4, 1.0 Vp-p / 75 ohm	BNC x8, 1.0 Vp-p / 75 ohm	BNC x16, 1.0 Vp-p / 75 ohm
UTP (Optional)	4ch UTP	8ch UTP	16ch UTP
Input IP devices	Up to 2ch		
Outputs	Up to 4ch		
Main Monitor	BNC x 1, 1.0Vp-p / 75 ohm		
Call Monitor	BNC x 1, 1.0Vp-p / 75 ohm		
VGA Output (Optional)	800 x 600, 1024 x 768, 1280 x 1024 pixels @60 Hz (Optional)		
Picture Refresh Rate	NTSC: 30 PPS/Per channel / PAL: 25 PPS/Per channel		
<b>Audio</b>			
Input	Terminal Block, x4 Line-in	Terminal Block, x8 Line-in	Terminal Block, x16 Line-in
UTP	Supported		
Main out	RCA x 1, 1 Channel Line-Out		
Call Audio	RCA x 1, 1 Channel Line-Out		
Compression Method	Proprietary		
Data Rate	8 KB/s Per channel		
<b>Recording</b>			
Compression Method	H.264 / MJPEG		
Recording Mode	Schedule, Alarm, Motion Detection		
Pre-Alarm	Yes		
Resolution & Rate	NTSC 720 x 480 720 x 240 360 x 240	Max 30 fps Max 60 fps Max 120 fps	Max 60 fps Max 120 fps Max 240 fps
	PAL 720 x 576 720 x 288 360 x 288	Max 25 fps Max 50 fps Max 100 fps	Max 50 fps Max 100 fps Max 200 fps
Recording Mode	5 Levels Presets		
Image Size	1 KB to 20 KB / Picture		
Storage Mode	Linear / Circular		
Data Life Time	Yes (Programmable)		
<b>Storage</b>			
Build-in Storage Interface	x3, SATA		
Cartridge / DVD/RW	Optional		
Export	x3 USB 2.0 Ports, Support ThumbDrive® or DVD/RW		
<b>Alarm</b>			
Alarm Input	x4, Terminal Block	x8, Terminal Block	x16, Terminal Block
Alarm Relay Output	x1, Terminal Block		
Alarm Detection	N.C./N.O., Programmable		
Motion Detection	16 x 12 Grid Array, Sensitivity, Trigger Level Adjustable		
Video Loss Detection	Programmable		
<b>Communication</b>			
Network Connectivity	Ethernet RJ-45 Connector, 10/100 Mbps		
Compatible IP Camera	SONY, AXIS, ACTI, Vivotek, DynaColor		
Remote Control Software	DynaGuard™ CMS, DynaRemote™ ①		
Remote Operation	Monitor, Playback, Recording, System Setup, Dome Camera Control, Archive		
RS-485	Terminal Block		
Dome Control Protocol	DynaColor, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic		
<b>General</b>			
Unit Dimension (WxHxD)	362 x 90 x 350 mm (14.2 x 3.5 x 13.7 inches)		
Unit Weight	5.5 Kg (12.1 lbs)		
Package Dimension (WxHxD)	410 x 210 x 500 mm (16.1 x 8.2 x 19.6 inches)		
Package Weight	7 Kg (15.4 lbs)		
Operation Temperature	-5 °C ~ 40 °C (23 °F ~ 104 °F)		
Relative Humidity	10% ~ 90% Non-condensing		
Power Consumption & Input	AC 100~240 V, 50-60 Hz, 60 W Adaptor		

Remark ①: DynaRemote™ Software Requirements:  
Windows 2000, XP or Vista, Intel® PIII or faster, 512 MB RAM (1 GB RAM or above is recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

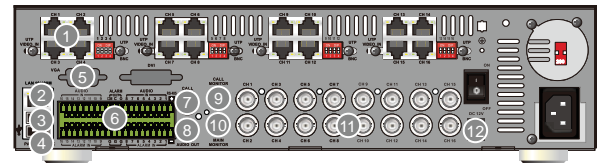
## Major Operating Controls

### Front Panel



- ① DVD/RW (Optional)
- ② USB 2.0 Port
- ③ Channel Keys
- ④ Function Keys
- ⑤ LEDs
- ⑥ Direction Keys

### Rear Panel



- ① UTP Ports (Optional)
- ② LAN Port (RJ-45)
- ③ USB 2.0 Ports
- ④ NTSC/ PAL Switch
- ⑤ VGA Port (Optional)
- ⑥ Alarm I/O & Audio Input & RS-485
- ⑦ Call Audio Output
- ⑧ Main Audio Output
- ⑨ Call Monitor Output (BNC)
- ⑩ Main Monitor Output (BNC)
- ⑪ Video Input
- ⑫ Power Jack

### Recommended HDDs

1. Seagate:	Barracuda 7200.11	500GB / 750GB / 1000GB
2. Seagate:	Barracuda ES.2	500GB
3. HITACHI	DeskStar	320GB / 500GB
4. WD:		160GB / 250GB / 320GB / 500GB / 750GB
5. Maxtor:	Diamond Max 22	500GB

### Recommended Optical Devices

- 1.LG: GH20NS10 (DVD+R/RW)
- 2.SONY NEC: AD-7200S

### Product Selection

Channels	HDD	Device Option	Connection	Video System
4: 4 Channels	000: None	0: None	0: BNC	P: PAL
8: 8 Channels	016: 160 GB	M: Cartridge	U: UTP	N: NTSC
6: 16 Channels	032: 320 GB	D: DVD/RW		
	050: 500 GB			
	064: 640 GB			
	075: 750 GB			
	100: 1000 GB			

Product specification and availability subject to change without notice.  
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