

**MPEG-4**



# DynaGuard™ 200 Series

Compact Versatile Digital Video Recorder



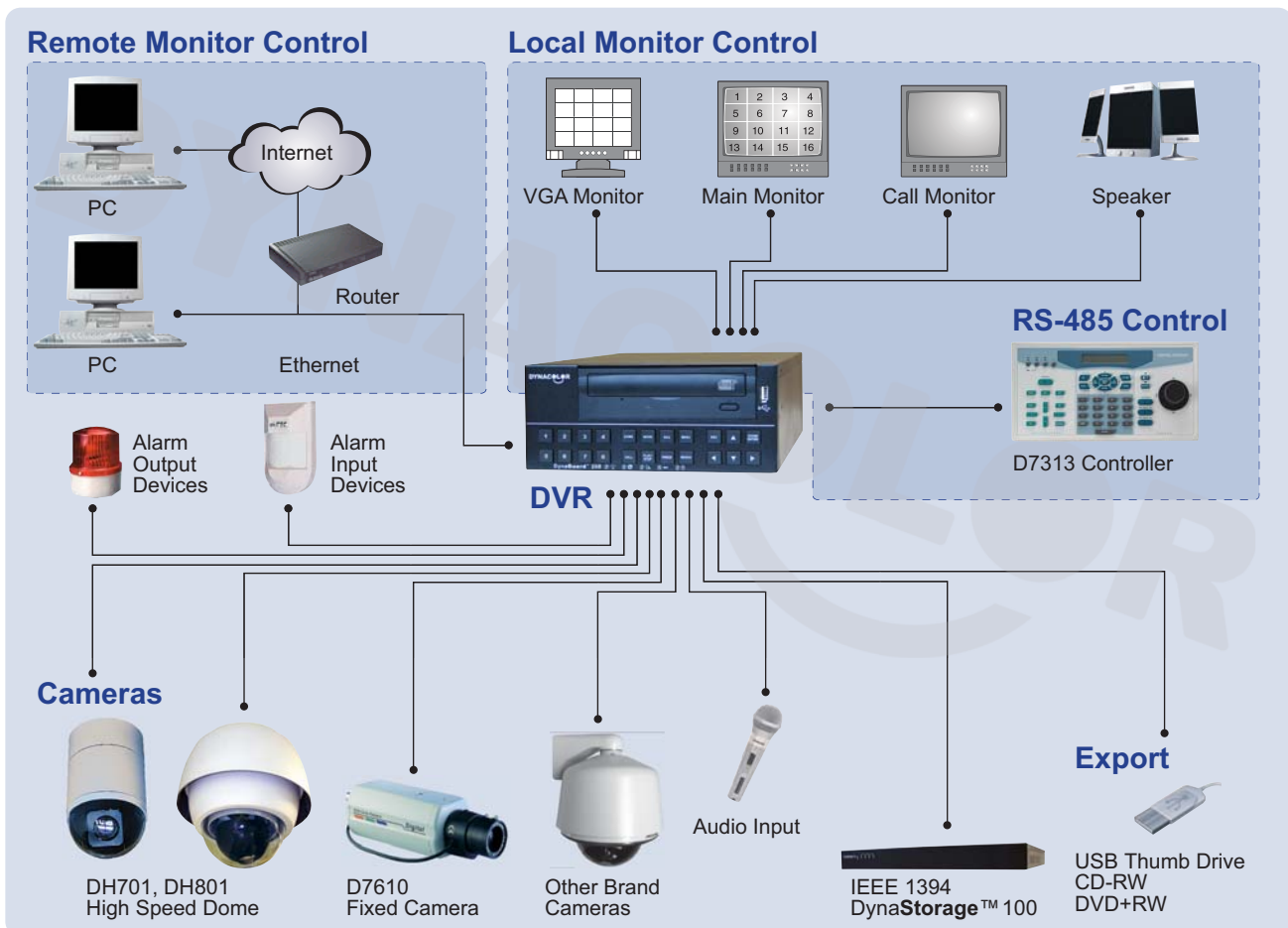
# Compact and Versatile Compact and Versatile



## Key Features

- MPEG-4 high quality compression, 5~10 times smaller than MJPEG
- Triplex operation enabling viewing live or playback while continuing to record, simultaneously
- Support VGA main output (optional)
- Live display: 240pps (NTSC)/200pps (PAL)
- Recording Rate: Up to 120pps (NTSC)/100pps (PAL)
- Powerful network functions: remote monitoring, control, playback via Ethernet and/or the internet
- Built with ezBurn™ technology, two keys (Search/Call) are all you need for completing the video export
- By selecting ezRecord™ function, user can select the period of days to record instead of complicated record settings
- Synchronized 2 Channels audio live, recording, and playback (locally & remotely)
- Built-in CD-RW or DVD+RW for video clip exporting (optional)
- Easy software upgrade via Network, USB ThumbDrive, or CD-RW
- Configurable normal and event recording frame rate & picture quality per channel
- Export AVI file can be played via Microsoft Media Player in any PC with DivX decoder installed
- DynaPlayer™ application software will be attached with exported disks
- Multiple built-in dome camera protocol (through RS485): DynaColor, Pelco D, Pelco P, AD422
- Digital Zoom 2 x 2, available in both live and playback mode
- Two internal hard drives support up to 1TB capacity
- External storage extension, two IEEE 1394 (FireWire®) ports for CD/RW, DVD dual, portable HDD, or external Disk Array
- Three USB2.0 ports for video clip export and/or backup
- Powerful alarm processor allows flexible alarm trigger and responses, including alarm, motion, and camera failure
- Pre-Alarm recording 30 secs
- Multiple language on-screen menus
- Password to secure installation authorization
- Network software supports static IP, DHCP, PPPoE and DDNS
- Network hardware supports 10/100M
- Support RS485 remote control keyboard (optional)

## System Configuration



# Compact size MPEG-4 Digital Video Recorder

## Versatile MPEG-4 Digital Video Recorder



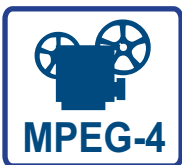
### Compact size DVR equipped with versatile functions

The DynaGuard™ 200 series is a compact (half-rack size) and versatile MPEG-4 digital video recorder (DVR). With 4 or 8 channel video configurations, it is specially designed for small to medium installations, such as retail stores, gas stations, homes, convenient stores, parking garage or ATMs. Equipped with an advanced embedded operating system, MPEG-4 compression engine, and triplex operation, DynaGuard™ 200 series integrates full key-functions into a compact security CCTV solution.

Keeps heritage of DynaColor triplex multiplexer and DVR family with powerful functions, including view live and playback simultaneously while continuing to record (Triplex Operation), camera plug & play (Camera Detection), per channel configuration, dome control, motion detection, events processing, and system integration.



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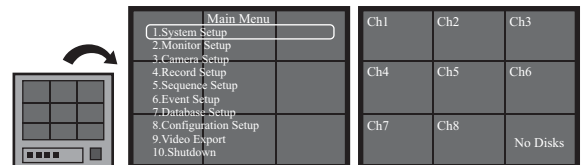
### MPEG-4 Compression enables longer recording and cost down

DynaGuard™ 200 series applies a high compression rate using the advanced MPEG-4 algorithm for an effective video management system. With high quality and small size recording image, DynaGuard™ 200 series provides longer recording duration and faster data transmission. In addition, DynaGuard™ 200 series can help users to reduce the cost for storage media.



### Synchronized audio recording enhances double security

DynaGuard™ 200 series supports multiple video and 2 audio channels recording simultaneously. Users can monitor and playback recorded data with both audio and image synchronously, which enhance more reliable surveillance security.



Local DVR control monitor display



### Powerful Network functions expand system accessibility and usability

DynaGuard™ 200 series offers easy-to-use Internet accessibilities with the built-in network interface. Users can remotely monitor, playback, change system settings, control connected dome cameras over a LAN or the Internet via the DynaRemote™ software (which is available as an ActiveX plug-in for Microsoft® Internet Explorer). The DynaRemote™ software enhances the features, accessibility, and usability of DynaGuard™ 200 series.

There are also USB and IEEE-1394 (FireWire®) ports for video export or backup to external devices for users' particular needs, such as USB ThumbDrive®, CD-RW, DVD+RW, or external Disk Array.



Users can remotely monitor, playback, change system settings, control connected dome cameras over a LAN or the Internet via the DynaRemote™ software

# DynaGuard™ 200

## Technical Specifications

Item	DG204	DG208
<b>Video</b>		
Operation System	Embedded (Linux)	
Video Standard	NTSC/PAL switch selectable	
Video Operation	Triplex+( Live, Record, Playback, and Network access )	
Resolution – Live Video	NTSC: 720 x 480 pixels Pal: 720 x 576 pixels	
Video Input	BNC x 4, 1.0Vp-p, 75 ohm	BNC x 8, 1.0Vp-p, 75 ohm
Outputs Main Monitor	BNC x 1, S-Video x 1, 1.0Vp-p, 75 ohm	
Call monitor	BNC x 1, 1.0Vp-p, 75 ohm	
Loop	BNC x 4, 1.0Vp-p, 75 ohm	BNC x 8, 1.0Vp-p, 75 ohm
VGA Output	800 x 600, 1024 x 768, 1280 x 1024 @ 60Hz	
Picture Refresh Rate	NTSC: 120 PPS(4CH), 240 PPS(8CH) PAL: 100 PPS(4CH), 200 PPS(8CH)	
Display Mode	1, 4, 9	
Digital Zoom	2 x 2	
Camera Installation	Plug & Play	
<b>Audio</b>		
Input	RCA x 2, Line-In	
Output	RCA x 2, Line-Out	
Recording Mode	Always Real time Record, Synchronized w/ Video	
Compression Method	ADPCM, G.726	
File Size	8KB/Sec	
Operation	Remote + VCR mode	
Playback	Only for Video Original Speed	
<b>Recording</b>		
Compression Method	MPEG-4 Advanced Simple Profile	
Recording Mode	Schedule, Alarm, Motion Detection	
Pre-Alarm	Up to 30 sec (Normal Quality)	
Recording Resolution & Rate	NTSC: 30 pps@720x480 pixels PAL: 25 pps@720x576 pixels 60 pps@720x240 pixels 50 pps@720x288 pixels 120 pps@360x240 pixels 100 pps@360x288 pixels	
Recording Quality	8 levels presets, adjustable	
Image Size	2K to 20K Byte/picture	
Storage Mode	Linear/Circular	
<b>Playback</b>		
Playback	Play, Stop, Pause, Rewind, Forward, Search	
Playback Speed Adjustment	Yes 1X, 2X...32X	
Retrieve	Date/Time, Event	
Data Life Time	Yes (Programmable)	
<b>Storage</b>		
Built-in Storage	X2 ATA 133 / UDMA 133IDE, HDD/CD-RW/DVD+RW	
Built-in HDD	Up to 2 built-in HDD	
External	X2 IEEE 1394(FireWire®) ports, support external HDD, Disk Array	
Export	X3 USB2.0 ports, support ThumDrive®, CD-RW, or DVD+RW	
<b>Alarm</b>		
Alarm Input	X8, Terminal Block	
Alarm Detection	N.C./N.O., Programmable	
Auditory Alert	Built-in Buzzer	
Motion Detection	21 X 13 (NTSC), 21 X 16 (PAL) Grid Array, Sensitivity, Trig Level Adjustable	
Video Loss Detection	Programmable	
Alarm Relay Output	X2, Terminal Block, 1.0A/24V (Programmable)	
<b>Communication</b>		
Network Connectivity	Ethernet RJ-45 connector, 10/100Mbps, supports DHCP/PPPoE/DDNS	
Remote Control Software	DynaRemote™	
Access Control	2 Level Password	
Remote Operation	Monitor, Playback, Recording, System Setup, Dome Camera Control	
RS232C	D-sub 9 pin female	
RS485	Terminal Block	
Dome Control Protocol	DynaColor, Pelco P, Pelco D, AD422	
<b>General</b>		
Unit Dimension(WxHxD)	210 x 88 x 352 mm (8.3 x 3.4 x 13.8 inches)	
Unit Weight	5.2kg (11.4 lbs), with built-in HDD x 1	
Package Dimension(WxHxD)	355 x 215 x 460 mm (14 x 8.5 x 18.1 inches)	
Package Weight	6.2 kg (13.6 lbs)	
Operation Temperature	0°C~40°C (32°F~104°F)	
Relative Humidity	5%~85% Non-condensing	
Power Consumption & Input	AC100~240V, 50-60Hz, 35W	

Remark ①: DynaRemote™ Software Requirements:  
Windows 2000 or XP, Intel® PIII or faster, 256MB RAM (512 MB RAM recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

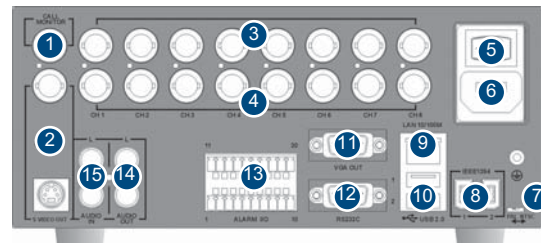
## Major Operating Controls

### Front Panel



- ① CD-RW or DVD+RW (Optional)
- ② USB2.0 Port
- ③ Channel Keys
- ④ Function Keys
- ⑤ Direction Keys
- ⑥ LED

### Rear Panel



- ① Call Monitor Output
- ② Main Monitor Output (BNC & S-Video)
- ③ Video Input
- ④ Camera Looping
- ⑤ Power Switch
- ⑥ Power Jack
- ⑦ NTSC/PAL Switch
- ⑧ IEEE-1394 (FireWire®) Ports
- ⑨ LAN Port (RJ45)
- ⑩ USB Ports
- ⑪ VGA Port
- ⑫ RS-232C
- ⑬ Alarm I/O & RS485
- ⑭ Audio Output
- ⑮ Audio Input

### Recommended HDD's

- 1. **Maxtor:** Diamond Max Plus 9 80G/160G/300G  
Diamond Max Plus 16 80G/160G/300G
- 2. **Seagate:** Barracuda 7200.7 200G  
Barracuda 7200.8 250G/300G
- 3. **Hitachi:** Deskstar 7200rpm 60G/300G/400G

## Product Selection

Channel	Storage Capacity	CD-RW	Video System
04: 4 Channels	000: None	0: None	P: PAL
08: 8 Channels	016: 160GB	C: CD-RW	N: NTSC
	030: 300GB	D: DVD+RW	
	032: 320GB		
	060: 600GB		

Product specifications and availability subject to change without notice.  
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