

## Versatile MPEG-4 DVR



## DynaGuard™ 204/208

The DynaGuard™ 204/208 is a compact, half-rack size, and versatile MPEG-4 DVR. With up to 8-channel video inputs, it is designed for small to medium-sized installations, such as retail stores, gas stations, households, convenient stores, or ATMs. Equipped with an advanced embedded Linux operating system, MPEG-4 compression engine, and Triplex+ operation, the DG204/208 integrates full functions into a compact security system.

Keeping with the heritage of DynaColor DVR family, the DG204/208 shares all of the powerful features as the DG216 series, including Modular Upgrade Kits, Humane Technology, Per Channel Configuration, dome control protocols, Pre-Alarm Recording, and the DynaRemote™ software. The DG204/208 provides superior video quality and excellent functions for security applications.

**Features**

**Advanced Functions**

- Triplex+ Operation: Live, Record, Playback, Network
- Supports up to 2 internal HDDs
- Supports internal CD-RW/DVD+RW
- Compact size
- Supports Modular Upgrade Kits
- Per Channel Configuration
- Multi-Language support
- Digital Zoom 2x2
- Multiple built-in dome camera control protocols
- Supports WLAN, SMS
- Supports Pre-Alarm Recording
- DynaRemote™ for remote monitoring

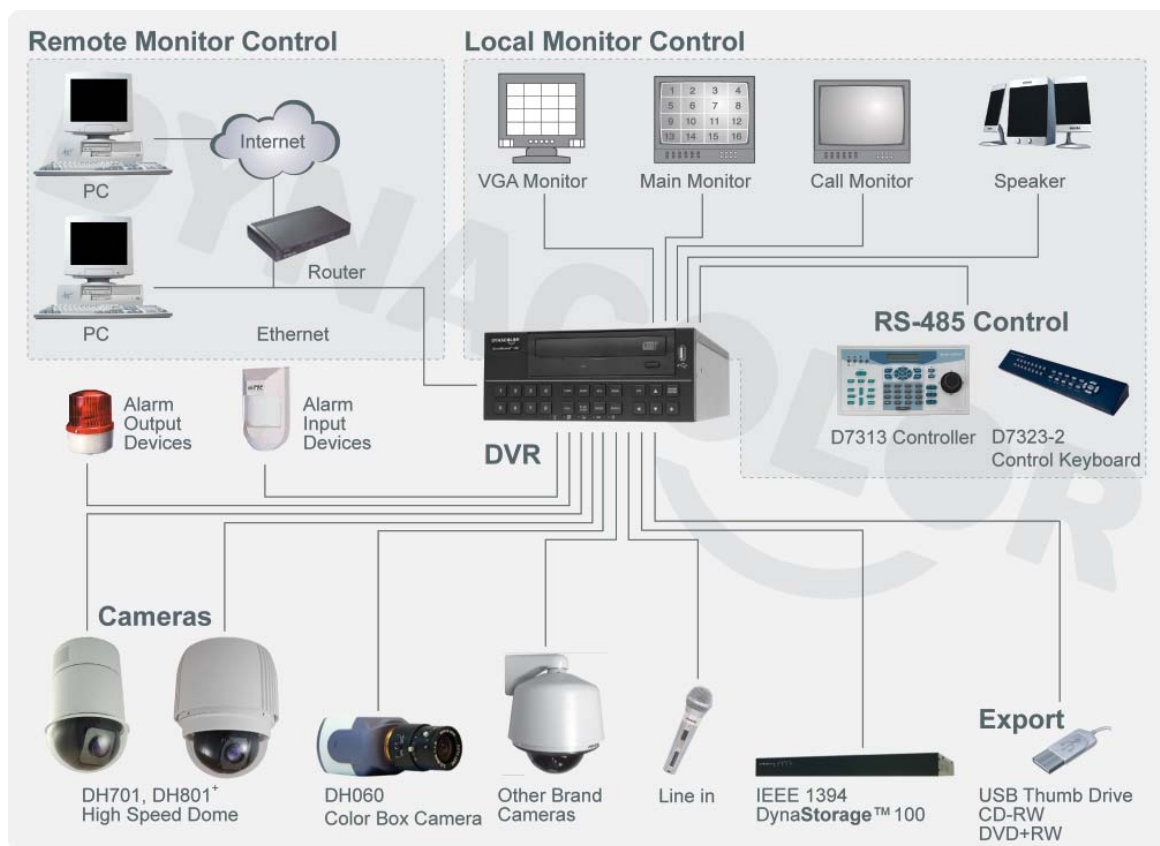
**Humane Technology**

- ezBurn™ for quick video export
- ezRecord™ for quick recording setting
- ezDDNS™ for automatic DDNS configuration **NEW**
- Exports AVI file for Microsoft® Media Player
- Compact Control Keyboard (Optional)

**Modular Upgrade Kits (Optional)**

- DynaStorage™ 100 for extended recording storage
- POS Module for transaction monitoring **NEW**


**System Configuration**



# Product Description

## Advanced Recording Capabilities

The DynaGuard™ 204/208 shares the same advanced recording options as the DynaGuard™ 216 series: Per Channel Configuration and Event Configuration. Per Channel Configuration gives users the flexibility to customize the recording setting of every channel independently. Event Configuration utilizes the Motion Detection function to enable the DVR to record only when the movements are detected.

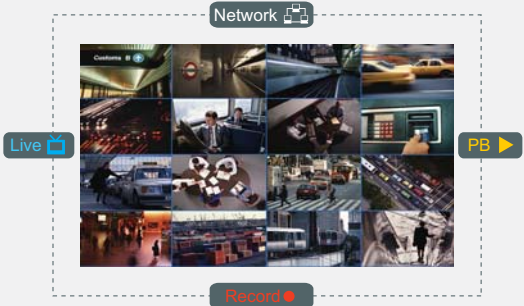


Per Camera Config			
Camera Select	CH1		
	Day	Night	Weekend
Normal PPS	7.5	7.5	7.5
Normal Size	Best	Best	Best
Event Max PPS	30	30	30
Event Size	Best	Best	Best
Event Active	Both	Both	Both

Per Channel Configuration gives users the flexibility to customize the recording setting of every channel independently.

## Triplex+ Operation

The outstanding Triplex+ capability of the DynaGuard™ 204/208 enables users to view live or playback recorded video, and access through network simultaneously. While recording video, users can also search recorded video by date and time, or alternatively select from the event list and playback video at the same time.



Triplex+ Operation enables users to record, view live and playback video, and remote access through network simultaneously.

## DynaRemote™ Software

The DynaGuard™ 204/208 offers easy-to-use Internet accessibilities. Users can remotely monitor, record, playback, archive, change system settings, and control dome cameras over a Wi-Fi, LAN or Internet via the DynaRemote™ software (which is available as an ActiveX plug-in for Mirosoft® Internet Explorer). The DynaRemote™ software enhances the features, accessibility, and usability of DynaGuard™ series.

## Remote Applications

DynaRemote™	Monitor	Live	Playback	Recording
	Dome Control	System Setup	Archive	Search
CMS	Multiple DVRs Management Software			



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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)	
Resolution – Live Video	NTSC: 720 x 480 pixels PAL: 720 x 576 pixels	
Video Input	BNC x 4, 1.0 Vp-p, 75 ohm	BNC x 8, 1.0 Vp-p, 75 ohm
Outputs	Main Monitor	BNC x 1, S-Video x 1, 1.0 Vp-p, 75 ohm
	Call monitor	BNC x 1, 1.0 Vp-p, 75 ohm
VGA Output	Loop	BNC x 4, 1.0 Vp-p, 75 ohm
		BNC x 8, 1.0 Vp-p, 75 ohm
Picture Refresh Rate	800 x 600, 1024 x 768, 1280 x 1024 @ 60Hz	
Display Mode	NTSC: 240 PPS (8CH) / PAL: 200 PPS (8CH)	
Digital Zoom	1, 4, 9	
Camera Installation	2 x 2	
	Plug & Play	
<b>Audio</b>		
Input	RCA x 2, Line-In	
Output	RCA x 2, Line-Out	
Recording Mode	Always Real time Record, Synchronized with Video	
Compression Method	ADPCM, G.726	
Data Rate	4KB/s, per CH	
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 60 pps@720x240 pixels 120 pps@360x240 pixels	PAL: 25 pps@720x576 pixels 50 pps@720x288 pixels 100 pps@360x288 pixels
Recording Quality	8 Levels Presets, Adjustable	
Image Size	2KB to 20KB / 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 133 IDE, HDD / CD-RW / DVD+RW	
Built-in HDD	Up to 2 built-in HDD	
External	x2 IEEE 1394 (FireWire®) ports, Supports external HDD, Disk Array	
Export	x3 USB2.0 ports, Supports ThumbDrive®, CD-RW, or DVD+RW	
<b>Alarm</b>		
Alarm Input	x8, Terminal Block (TTL)	
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, Trigger Level Adjustable	
Video Loss Detection	Programmable	
Alarm Relay Output	x2, Terminal Block, 3.0 A/30 VDC or 3.0 A/125 VAC	
<b>Communication</b>		
Network Connectivity	Ethernet RJ-45 connector, 10/100 Mbps, Supports DHCP / PPPoE / DDNS	
Remote Control Software	DynaRemote™	
Access Control	2 Level Password	
Remote Operation	Monitor, Playback, Recording, System Setup, Dome Camera Control, Archive	
RS232C	D-Sub 9 pin female	
RS485	Terminal Block	
Dome Control Protocol	DynaColor, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic	
<b>General</b>		
Unit Dimension (W x H x D)	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 (W x H x D)	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, 50-60 Hz, 35 W	

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.

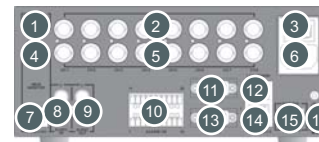
Major Operating Controls

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 Video Input
- ③ Power Switch
- ④ Main Monitor Output (BNC)
- ⑤ Camera Looping
- ⑥ Power Jack
- ⑦ Main Monitor Output (S-Video)
- ⑧ Audio Input
- ⑨ Audio Output
- ⑩ Alarm I/O & RS485
- ⑪ VGA Port
- ⑫ LAN Port (RJ45)
- ⑬ RS-232C
- ⑭ USB Ports
- ⑮ IEEE-1394 (FireWire®) Ports
- ⑯ NTSC/PAL Switch

Extended Storage System: DS100

Front Panel



Rear Panel



The addition of high quality storage devices extends DVR usability and recording capacity.

Recommended HDDs

- 1.Maxtor:** DiamondMax 16 80G/160G/300G  
DiamondMax Plus 9 80G/160G
- 2.Seagate:** Barracuda 7200.10 320G/750G  
SV35.1 160G/250G/500G
- 3.Hitachi:** Deskstar 7200rpm 250G/300G/400G

Product Selection

Channel	Storage Capacity	CD-RW	Video System
04: 4 Channels	000: None 016: 160GB 030: 300GB 032: 320GB 050: 500GB	0: None C: CD-RW D: DVD+RW	P: PAL N: NTSC

Product specifications and availability subject to change without notice.  
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