

MPEG-4



DynaGuard™ 216 Series

Full-Featured MPEG-4 DVR

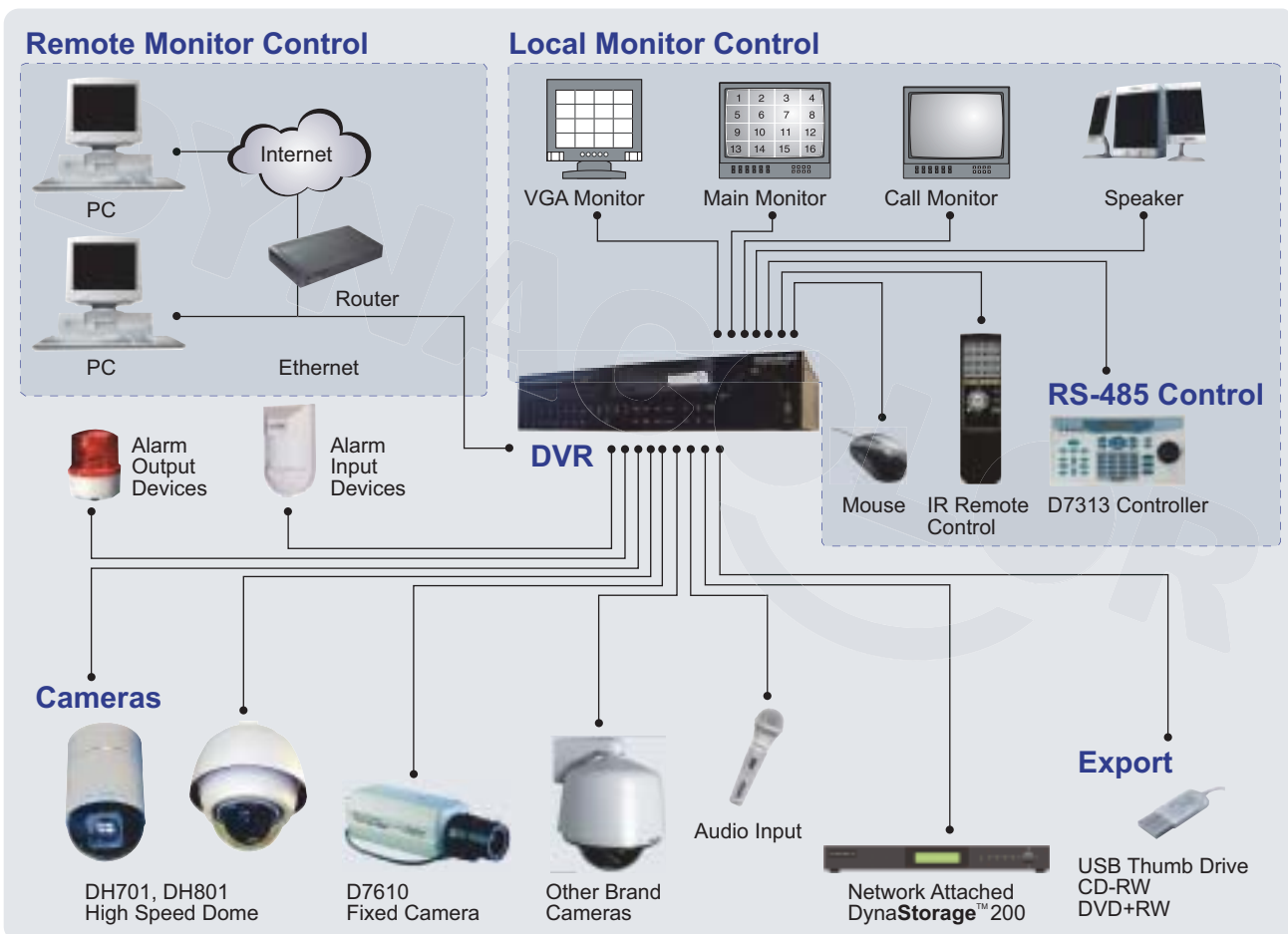




Key Features

- MPEG-4 high quality compression, 5~10 times smaller than MJPEG
- Triplex operation enabling simultaneously view live or playback while continuing to record
- Remote monitoring, recording, playback, change system settings and dome camera control via Ethernet and/or Internet
- Embedded Linux operating system
- Support VGA main output
- Live display: 480pps (NTSC)/400pps (PAL)
- Recording Rate: Up to 240pps (NTSC)/200pps (PAL)
- 2 Channels, in & out, for audio recording
- Support up to internal 4 HDDs / 1 Optical drive + 3 HDDs
- Gigabit Ethernet for dedicated NAS device, DynaStorage™ 200
- Mesh network support(IEEE 802.11b/g)
- Built-in CD-RW or DVD+RW for video clip exporting (optional)
- USB2.0 ports for video clip exporting, support USB thumb drive, external CD-RW and DVD+RW
- Easy software upgrade via Network, USB ThumbDrive, or CD-RW
- Configurable normal and event recording frame rate & picture quality per channel
- Export AVI file which can be played via Microsoft Media Player in any PC with DivX decoder installed
- Multiple built-in dome camera protocol (through RS485): DynaColor, Pelco D, Pelco P, AD422
- Automatic camera detection (Plug & Play)
- Digital Zoom 2 x 2, available in both live and playback mode
- Covert camera operation provides enhanced security and administrator control
- Dynamically programmable recording priority, motion detection, alarms, and scheduling
- Programmable call-monitor switching sequence
- Pre-Alarm recording up to 30 secs
- Sound-Triggered alarm
- RS232 ports available, POS ready(optional)
- Shuttle Jog
- IR Remote controller
- USB Mouse Support for user-friendly operation
- 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)

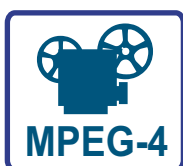
System Configuration





Integrates full functions into an effective and user-friendly surveillance system

The DynaGuard™ 216 is a full-featured MPEG-4 DVR. With 16 channel video configurations, it is specially designed for medium installations, such as supermarkets, hospitals, train stations, buildings...and so on. Equipped with an advanced embedded operating system, MPEG-4 compression engine, up to 4 internal hard disks, dual Ethernet ports and triplex operation, DynaGuard™ 216 integrates full functions into an effective and user-friendly surveillance system.



MPEG-4 Compression enables longer recording and cost down

DynaGuard™ 216 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™ 216 series provides longer recording duration and faster data transmission. In addition, DynaGuard™ 216 series can help users to reduce the cost for storage media.



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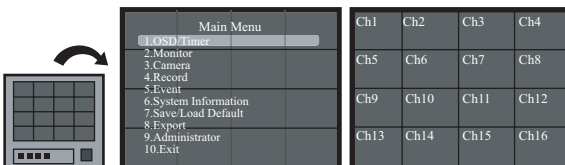
Technical Insight results in the User-friendly design

DynaGuard™ 216 series harness a groundbreaking technology to provide effective control ability via user-friendly interfaces such as shuttle/jog, mouse, keypad and IR control. By experiencing the features, more and more users tend to using mouse on graphic on-screen menu instead of the front panel. Besides this, shuttle/jog is also very user-friendly, especially in FF/REW mode.



Synchronized audio recording enhances double security

DynaGuard™ 216 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™ 216 series offers easy-to-use Internet accessibilities with the built-in network interface. Users can remotely monitor, record, playback, change system settings, control connected dome cameras over a Wi-Fi, LAN or the 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™ 216 series.



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Keeps more recordings for longer periods of time by external NAS devices

Nowdays, the most developed way to keep more recordings for longer periods of time is by external storage devices. Similarly, DynaGuard™ 216 series adopts IP technologies to give DVRs better bandwidth and higher throughput for video transmission via Gigabit Ethernet, therefore it is suited for use in NAS(Network Attached Storage) application.

Technical Specifications

Item	DG216L	DG216	DG216T		
Video					
Operation System	Embedded (Linux)				
Video Standard	NTSC/PAL switch selectable				
Video Operation	Triplex+(Live, Record, Playback , Remote, and Internet access)				
Resolution – Live Video	NTSC: 720 x 480 pixels PAL: 720 x 576 pixels				
Input	BNC x 16, 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 16, 1.0Vp-p/75ohm			
VGA Output	800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60Hz				
Picture Refresh Rate	NTSC: 480 PPS(16CH) PAL: 400 PPS(16CH)				
Digital Zoom	2 x 2				
Camera Installation	Plug & Play				
Audio					
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				
Recording					
Compression Method	MPEG-4 Advanced Simple Profile				
Recording Mode	Schedule, Alarm, Motion Detection				
Pre-Alarm	1-30 sec				
Resolution & Rate	NTSC 720X480	Max 30 pps	Max 60 pps	Max 120 pps	
		720x240	Max 60 pps	Max 120 pps	Max 240 pps
		360x240	Max 120 pps	Max 240 pps	Max 480 pps
	PAL 720X576	Max 25 pps	Max 50 pps	Max 100 pps	
		720x288	Max 50 pps	Max 100 pps	Max 200 pps
		360x288	Max 100 pps	Max 200 pps	Max 400 pps
Recording Quality	8 levels presets, adjustable				
Image Size	2K to 20K Byte/picture				
Storage Mode	Linear/Circular				
Playback					
Playback	Play, Stop, Pause, Rewind, Forward, Search				
Playback Speed Adjustment	Yes 1X, 2X...32X				
Retrieve	Date/Time, Event				
Data Life Time	Yes(Programmable)				
Storage					
Build-in Storage	X2 ATA 133 / UDMA 133 IDE, HDD/CD-RW/DVD+RW				
Build-in HDD	Up to 4 built-in HDDs				
External Storage	DynaStorage 200 (Gigabit LAN)				
Export	X3 USB2.0 ports, support ThumbDrive , CD-RW, or DVD+RW				
Alarm					
Alarm Input	X16, 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	X3, Terminal Block, 1.0A/24V (Programmable)				
Communication					
Network Connectivity	Ethernet RJ-45 connector, 10/100Mbps, supports DHCP/PPPoE/DDNS				
Remote Control Software	DynaRemote™				
Access Control	2 Level Password				
Remote Operation	Monitoring, 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				
General					
Unit Dimension(WxHxD)	440 x 90 x 330 mm (17.3 x 3.54 x 12.99 inches)				
Unit Weight	6Kg (12.33 lbs) w/ CD-RW				
Package Dimension(WxHxD)	590 x 210 x 460 mm (23.2 x 8.27 x 18.1 inches)				
Package Weight	8.5Kg (18.72 lbs)				
Operation Temperature	0°C ~40°C (32°F- 104°F)				
Relative Humidity	5% - 85% Non-condensing				
Power Consumption & Input	AC 100 240V, 50-60Hz, 100W				

Remark : 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.

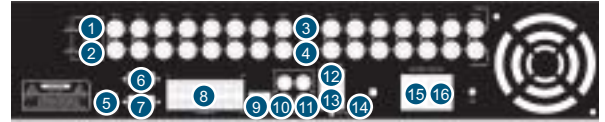
Major Operating Controls

Front Panel



- 1 CD-RW or DVD+RW (Optional)
- 2 Cartridge (Optional)
- 3 Channel Keys
- 4 LEDs
- 5 IR
- 6 Function Keys
- 7 Direction Keys
- 8 Shuttle Jog
- 9 USB2.0 Port

Rear Panel



- 1 Call Monitor Output
- 2 Main Monitor Output
- 3 Video Input
- 4 Video Output
- 5 Main Monitor Output(BNC & S-Video)
- 6 VGA Port
- 7 RS-232C
- 8 Alarm I/O & RS485
- 9 LAN Port (RJ45)
- 10 Audio Input
- 11 Audio Output
- 12 LAN Port (RJ45)
- 13 USB2.0 Port
- 14 NTSC/PAL Switch
- 15 Power Jack
- 16 Power Switch

Extended Storage System

Front Panel



Rear Panel



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

Product Selection

DG216 -

Channels	HDD	Drive Option	Video System
0: Standard	000: None	0: None	P: PAL
L: Lite	016: 160GB	C: CD-RW	N: NTSC
T: Turbo	020: 200GB	D: DVD+RW	
	050: 500GB	M: Cartridges(X2)	

Product specifications and availability subject to change without notice.
Certain product names mentioned herein may be trade names and/or registered trademarks of their companies.

Developed and Manufactured by:



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Worldwide Distribution and Service Network

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