

DynaGuard[™] 200 Series Compact and Versatile MPEG-4

Ver. 1.1

An Introduction to the DynaGuard™ 200 Series MPEG-4 Digital Video Recorder for Small to Medium Applications

What is a DynaGuard™200?

 Combined the features of a time-lapse audio / video recorder, a multiplexer, and a video server to create a single security CCTV solution.





DynaGuard™ 200 Series DVR

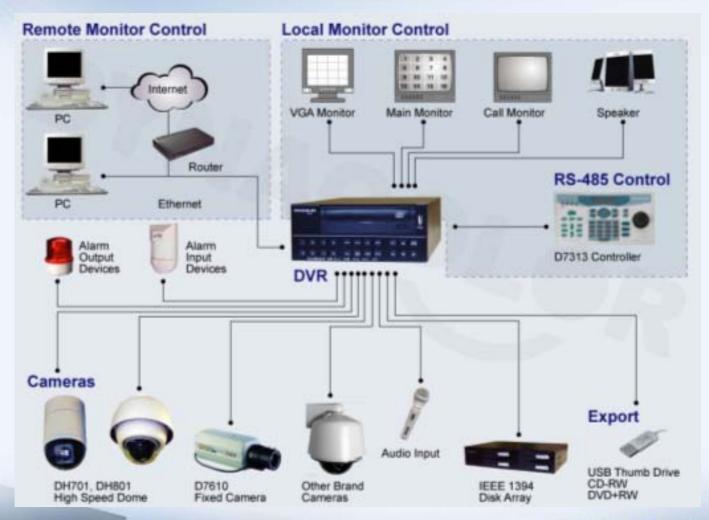




- ✓ Compact and versatile
- √ Supports 4Ch/ 8Ch for small application
- Easy setup and configuration
- ✓ MPEG-4 high quality compression
- √ 24 hours full-time recording
- √ Triplex+ operation
- ✓ Multiple Language
- ✓ Built-in dome control protocol
- ✓ Remote access



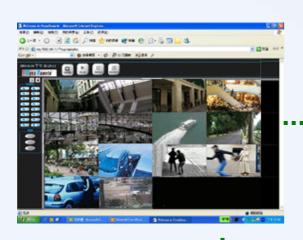
System Diagram





Three in one







Dyna**Guard**™:

- ✓ Digital Video Recorder
- √ 4, and 8 channel inputs
- ✓ From 160 GB to 600 GB internal storage

Dyna**Remote**™:

Remote viewing and configuration software

Dyna**Alert**™:

- ✓ The event manager component
- √ Sound a buzzer
- √ Flash a notice on the PC screen

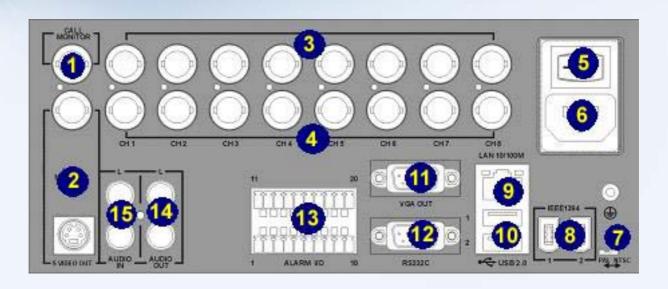


DynaGuard[™] Front Panel





DynaGuard[™] Rear Panel



- 1. Call Monitor
- 2. Main Monitor (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
- 10. USB Ports
- 11. VGA Port
- 12. RS-232C
- 13. Alarm I/O
- 14. Audio Output
- 15. Audio Input



Compact & Versatile

- Support BNC, S-video, VGA monitor
- 2 channels audio
 - ✓ Live, Record, and Playback)
- Triplex+ Operation:
 - ✓ Real-time monitoring, search & playback, remote access, recording at same time.
- Motion detection
 - Adjustable by detect area, sensitivity, and threshold
- Automatic camera detection
 - ✓ Plug & Play

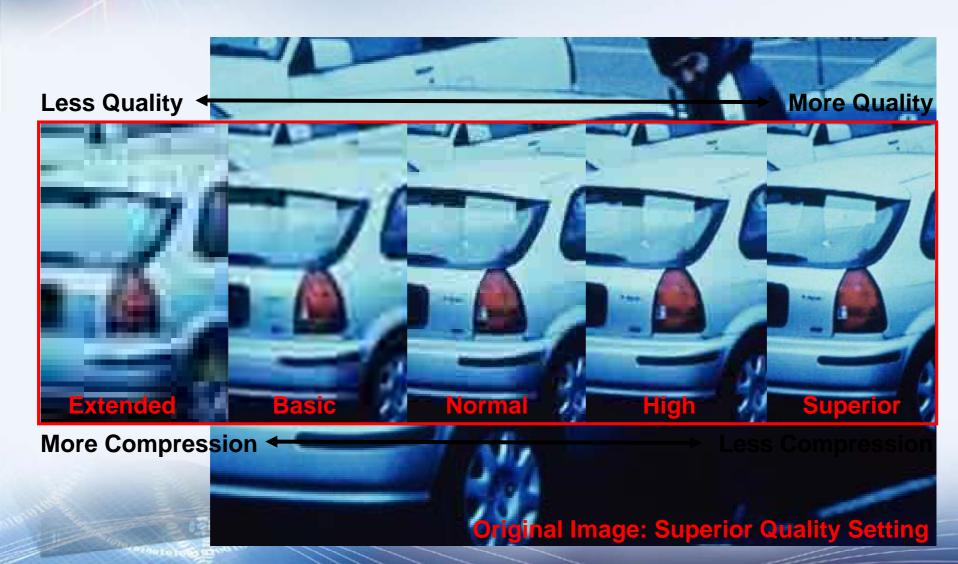


Low Total Cost & High Quality

- Half rack mountable size
 - ✓ Saves spaces, especially for small installation
- Advanced embedded operating system
 - ✓ Low maintenance
- MPEG-4 high quality compression
 - ✓ Smoother and faster, especially for remote access
- 5 Levels of recording quality
 - ✓ Image size: 1K 13K Byte/ picture
- 24 hours full-time recording
- Each camera configuration
 - performable for camera settings, frame rate, picture bit rate, alarms, motion detection.



Video Compression & Quality



Recording Time

Recording Rate		Recording Picture Quality Mode										
Total Images Per Second NTSC	Total Images Per Second PAL	Extended		Basic		Normal		High		Superior		
		NTSC (5 KB)	PAL (5 KB)	NTSC (7 KB)	PAL (7 KB)	NTSC (9 KB)	PAL (9 KB)	NTSC (11 KB)	PAL (11 KB)	NTSC (13 KB)	PAL (13 KB)	
160 GB Internal Storage												
60	50	5.9	7.1	4.3	5.1	3.3	4.0	2.7	3.3	2.3	2.8	
30	25	11.8	14.1	8.5	10.2	6.7	8.0	5.5	6.6	4.7	5.6	
15	12.5	23.5	28.2	17.0	20.4	13.3	16.0	11.0	13.2	9.3	11.2	
7.5	6.25	47.0	56.4	34.1	40.9	26.7	32.0	21.9	26.3	18.6	22.4	
300 GB Internal Storage												
60	50	11.0	13.2	8.0	9.6	6.3	7.5	5.1	6.2	4.4	5.2	
30	25	22.0	26.5	16.0	19.2	12.5	15.0	10.3	12.3	8.7	10.5	
15	12.5	44.1	52.9	31.9	38.3	25.0	30.0	20.6	24.7	17.5	21.0	
7.5	6.25	88.2	105.8	63.9	76.6	50.1	60.1	41.2	49.4	34.9	41.9	
600 GB Internal Storage												
60	50	22.0	26.5	16.0	19.2	12.5	15.0	10.3	12.3	8.7	10.5	
30	25	44.1	52.9	31.9	38.3	25.0	30.0	20.6	24.7	17.5	21.0	
15	12.5	88.2	105.8	63.9	76.6	50.1	60.1	41.2	49.4	34.9	41.9	
7.5	6.25	176.4	211.6	127.7	153.3	100.1	120.1	82.3	98.8	69.9	83.9	



Large Video Storage & Export

- 2 internal HDD storage support up to 1TB capacity
- Video backup/ export (via USB2.0 or IEEE-1394 ports)
 - ✓ External Hard Drive
 - External CD-RW or DVD RW
 - ✓ USB ThumbDrive[®]
- Export video (AVI) with audio and digital signature
- Exported AVI file can be played in any PC with DIVX decoder installed





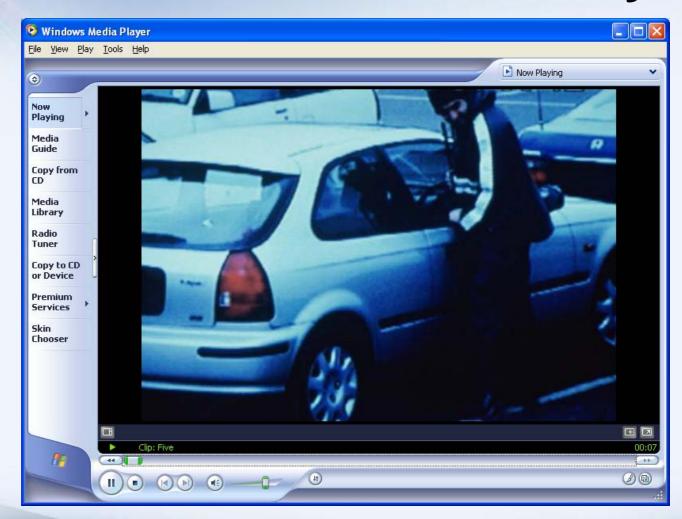
User Friendly Recording and Playback

- Programmable Recording
 - √ day/night/ weekend scheduling
 - Pre-alarm and post alarm recording time and quality adjustable
- Convenient Playback Function
 - Multiple Playback speed
 - Flam fast-forward and rewinding
 - ✓ Playback Player Exported AVI files via Media
- 2X Digital Zoom
 - Available in both live and playback mode
- Covered Camera



View Video in Media Player

Export or download video remotely as AVI file format. Play in any media player application with DIVX decoder installed





Covert Camera

- Record areas of concern such as cash registers, loading docks, etc without displaying camera on security monitors
- Increase security on specific areas to reduce internal fraud
- "Public Display" of selected cameras only



For Example:

The covert camera appears as a blank camera...

No one knows that this camera is actually being recorded.



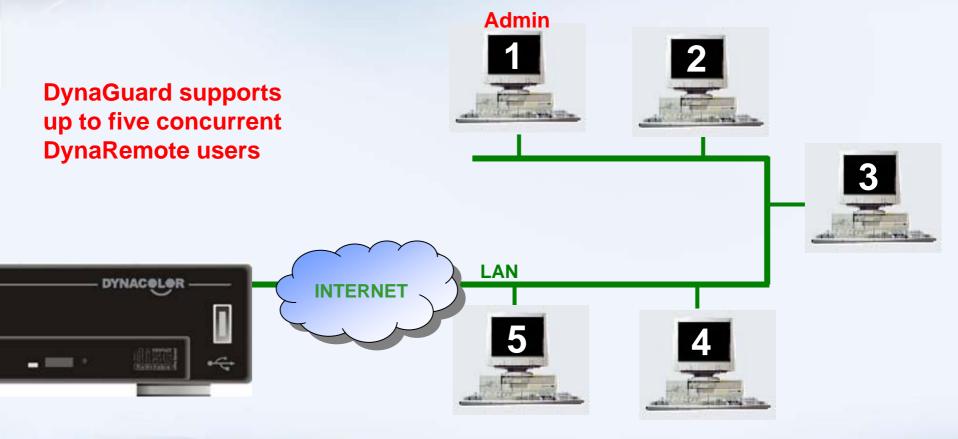
Main Monitor (2 x 2 Mode)

Powerful System Compatibility

- Software upgrade via
 - ✓ USB ThumbDrive[®]
 - ✓ CD-RW
 - ✓ Remote --- via PC with DynaRemoteTM
- System Integration
 - ✓ Dome Control with multiple build-in protocols:
 - DynaColor, Pelco D, Pelco P, and AD422
 - ✓ Alarm devices (8 input/ 2 output)
 - ✓ External Storage Management
 - via USB, IEEE-1394, Network access



DynaRemote™





What is DynaRemote™?

- Software allows remote connection to a DynaGuard
 - ✓ Works over a LAN, WAN or Internet
 - ✓ Included with DynaGuard
 - ✓ Deployed from DynaGuard to remote computer
- Web-browser based application
 - No need to install additional software at the remote computer
 - ✓ Requires Internet Explorer 6.0 (or higher)
 - ✓ Supports client systems running Windows XP or 2000
- Allow users to
 - ✓ View live video
 - √ View recorded video
 - ✓ Download video and audio (AVI files)
 - ✓ Configure the DynaGuard unit
 - ✓ Control attached Dome camera
 - ✓ Perform software upgrade



DynaRemote[™] Key Features

- Easy to install
 - ✓ No license key required
 - ✓ No CD-ROM required
 - Just enter the IP address of the DynaGuard you want to connect to
- Easy-to-use drag and drop web-browser interface
- Remote viewing of live video
- Remote downloading and viewing of recorded video and audio
- Remote set up of: motion detection, camera recording schedule, cameras, ips, resolution, etc.
- Remote dome control
- Remote search
- DynaRemote provides remote access to DynaGuard...anytime, anywhere!



Configurations

Factures		DG204		DG208				
Features	None	CD-RW	DVD RW	None	CD-RW	DVD RW		
Channels		4		8				
Live Update Speed	120pp	s (NTSC) (PAL)	100 pps	240pps (NTSC) 200pps (PAL)				
Recording Rate	60pps (NTSC) 50pps (PAL)			60pps (NTSC) 50pps (PAL)				
VGA Output	No	Y	es	No	Yes			
Dome Control		Yes		Yes				
Motion Detection		Yes		Yes				
Remote Software		Yes		Yes				
LAN		Yes		Yes				
Max. Built-in HDD		1 HDD		1 HDD				
Built-in CD-RW	No	Yes	No	No	Yes	No		
Built-in DVD RW	No	No	Yes	No	No	Yes		
Swappable HDD	1	No	No	1	No	No		



Benefits

Continuous 24 Hour Recording

✓ Triplex DVR Operation eliminates the need to stop recording to search for events or exchange of tapes.

Delivers Crisp Image at all time

✓ DVR eliminates the problems of unreadable or wear and tear of tapes over times.

Instant Access to Recorded Video

- Transfer from analog to digital, DVR solves the problem of having to rewind hours of video tapes to search for an event.
- Search by time, date, or event, event List provides quick access to all motion events.

Longer and More Efficient Data Recording

- ✓ New MPEG-4 compression technology compresses recorded video memory and enhances the video quality for better use of HDD space.
- ✓ Simple and easy to configure day/ night/ weekend configuration maximizes the use of HDD space.

Windows Compatible Data

 Exported video files are in AVI format and can be viewed on any computer with a media player application.



Benefits-cont.

Monitoring Video From Around the World

✓ Use DynaRemoteTM web-base remote software that provides powerful remote control functions, including live view, playback, record and system configuration.

Audio Recording

✓ Two channels of audio recording with real time playback.

Multiple User Accessibility

✓ Dyna**Remote**TM software supports up to five simultaneous remote (authorized) users.

Export Data Quick and Easy

 External storage devices for export via USB2.0 and IEEE-1394 (FireWire®) include ThumbDrives®, CD-RW, DVD dual, portable HDD or disk array.

Simple Software Upgrade

✓ Software upgrades are simple and fast with a USB ThumbDrive®, CD-RW, or Remote Application via the Internet.

Quick and Easy to Install

✓ Plug-and-Play, just plug a camera into the DynaGuard[™] 200 and it begins recording video automatically, thus simplifying installation.

Key Markets

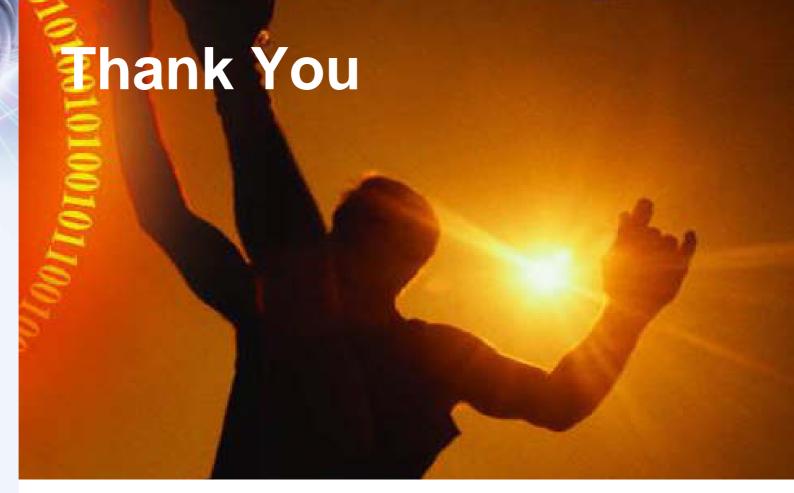
- Ideal for small to medium applications:
 - √ Retail stores
 - ✓ Gas stations
 - √ Homes
 - ✓ Convenient stores
 - √ Schools
 - √ Hospitals
 - ✓ ATMs





- Remote configuration and viewing software
- Easy-to-use and easy-to-learn surveillance solution
- Where video transmission over a LAN or WAN is not constrained
- Need simple scheduler
- May need dome control
- Limited space, i.e. half rack unit
- Only need two levels of security
- Requires up to 60 pps recording
- Alarm notification via remote software





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