

Proficient MPEG-4 DVR



DynaGuard™ 90 Series

The DynaGuard™ 90 series is a multi-function MPEG-4 DVR developed to meet the low cost requirements of the general purpose surveillance system. Embedded with the Linux operating system, DG90 series applies very price-competitive hardware architecture but still offers the users worthy features. The Triplex, Motion Detection, Event Recording, ezBurn™, ezRecord™, and ezDDNS™ functions in DG90 provide the users more secure environments than the traditional system (multiplexer plus time-lapse VCR) could do. While installing DG90, the optional UTP (unshielded twisted pair) connection reduces cost for the users from the expensive coaxial cabling.

Features

Advanced Functions

- Triplex Operation: Live / Playback, Record, Network
- Supports up to 2 internal HDDs
- Supports internal CD-RW
- UTP Connection (Optional) **NEW**
- Multi-Language support
- Digital Zoom 2x2
- Multiple built-in dome camera control protocols
- Supports Pre-Alarm Recording
- Motion Detection Marker **NEW**
- DynaRemote™ Lite for remote monitoring

Humane Technology

- ezBurn™ for quick video export
- ezRecord™ for quick recording setting
- ezDDNS™ for automatic DDNS configuration **NEW**
- IR Remote Control (Optional)
- Compact Control Keyboard (Optional)

System Configuration



Product Description

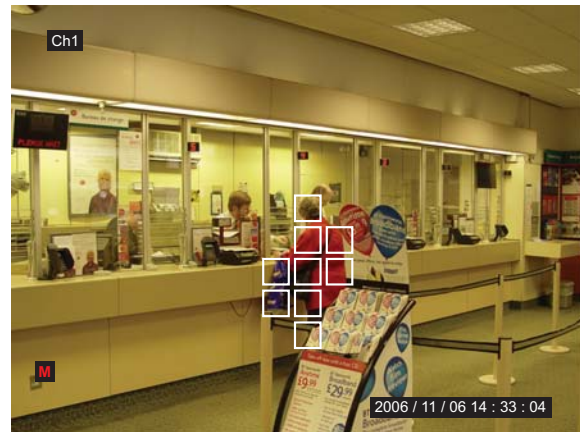
UTP Connection

The DynaGuard™ 90 series provides an optional UTP connectivity to reduce system installation cost from the expensive coaxial cabling. Users can choose the UTP wiring option while ordering.



Motion Detection Marker

The Motion Detection function would mark the areas where the movements are detected, to raise the alert for the users.



Marker on the display

Humane Technology

In addition to the front panel keypad, the DynaGuard™ 90 series can be operated through the D7323-2 control keyboard (optional), or IR remote control (optional). The ezBurn™ and ezRecord™ functions simplify the process for video image exporting and recording. The ezDDNS™ function automatically configures the DDNS settings when connected to the internet.



Technical Specifications

Item	DG94	DG98	DG96
Video			
Input	BNC x 4, 1.0 Vp-p, 75 ohm	BNC x 8, 1.0 Vp-p, 75 ohm	BNC x 16, 1.0 Vp-p, 75 ohm
Video Standard	NTSC / PAL switch selectable		
Video Operation	Triplex (Live / Playback, Record and Network)		
Outputs	BNC x1, 1.0 Vp-p, 75 ohm		
Main Monitor	BNC x1, 1.0 Vp-p, /75 ohm		
Call Monitor	N/A	BNC x1, 1.0 Vp-p, /75 ohm	
VGA (Optional)	800 x 600, 1024 x 768, 1280 x 1024 pixels @ 60 Hz(Optional)		
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 with Video		
Compression Method	ADPCM, G.726		
Data Rate	4KB/s, per CH		
Operation	VCR mode		
Playback	Only for Video Original Speed		
Recording			
Compression Method	MPEG-4 Advanced Simple Profile		
Recording Mode	Schedule, Alarm, Motion Detection		
Pre-Alarm	Yes		
Recording Resolution & Rate	NTSC: 30 PPS@720 x 480 pixels / PAL: 25 PPS@720 x 576 pixels NTSC: 60 PPS@720 x 240 pixels / PAL : 50 PPS@720 x 288 pixels NTSC: 120 PPS@360 x 240 pixels / PAL : 100 PPS@360 x 288 pixels		
Recording Mode	Best Quality, Standard, ezRecord, Extended Record, DSL		
Image Size	8KB to 20KB / picture		
Storage Mode	Linear / Circular		
Playback			
Playback	Play, Stop, Pause, Rewind, Forward, Search		
Playback Speed Adjustment	Yes 1x, 2x...32x		
Retrieve	Date / Time, Event		
Storage			
Built-in HDD	Up to 2 built-in HDDs		
Export			
USB	USB 2.0 CD/RW (Optional)		
USB Thumb Drive	Support		
Alarm			
Alarm Input	x4, D-Sub 15 pin (TTL)	x8, D-Sub 25 pin (TTL)	x16, D-Sub 25 pin (TTL)
Alarm Relay Output	x1, D-Sub 15 pin	x1, D-Sub 25 pin	x1, D-Sub 25 pin
	3.0 A/30 VDC or 3.0 A/125 VAC		
Alarm Detection	N.C. / N.O., Programmable		
Motion Detection	16 x 12		
Video Loss Detection	Programmable		
Auditory Alert	Built-in Buzzer		
External I/O Board (Optional)	Terminal Block (2x6)	Terminal Block (4x6)	
Communication			
Communication Protocol	RS-485 DSCP		
Remote Control Software	DynaRemote™ Lite		
Network Connectivity	Ethernet RJ-45 connector, 10/100 Mbps, Supports DHCP		
LAN Remote Control	IE Browser, Windows AP		
Dome Control Protocol	DynaColor, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic		
Remote Operation	Monitor, Playback, Recording, System Setup, Dome Camera Control		
On-Screen Display			
Search	Based on Time or Event		
Play / Pause / REW / FF	Control Playback Direction & Speed		
Password Control	2 Level, Administrator / User		
General			
Unit Dimension (W x H x D)	440 x 55 x 413 mm (17.3 x 2.2 x 16.3 inches)		
Unit Weight	4.9 kg (10.8 lbs)		
Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)		
Relative Humidity	5% ~ 85% Non-condensing		
Power Consumption & Input	External Adapter, AC 100 ~ 240V to DC12V		

Remark ①: DynaRemote™ Lite 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
- ② USB2.0 Port
- ③ LEDs
- ④ Channel Keys
- ⑤ Function Keys
- ⑥ Direction Keys

Rear Panel



- ① LAN Port (RJ45)
- ② VGA Port (Optional)
- ③ RS485/Alarm In & Alarm Out
- ④ Audio Input
- ⑤ Audio Output
- ⑥ Call Monitor
- ⑦ Main Monitor
- ⑧ Video Input
- ⑨ DC Power In
- ⑩ UTP Ports (Optional)

Recommended HDDs

1. Maxtor:	DiamondMax Plus 9	80G/160G
	Maxline III	250G/300G
2. Seagate:	Barracuda 7200.10	320G
	SV35.1	160G/250G/500G

Product Selection

DG09	□	□	□	□	□
Channels	HDD	Device Option	Connection	Video System	
4: 4 Channels	000: None	0: None	0: BNC	P: PAL	
8: 8 Channels	016: 160GB	M: Cartridge	U: UTP	N: NTSC	
6: 16 Channels	020: 200GB	C: CD-RW			
	050: 500GB				

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.