

# DVR

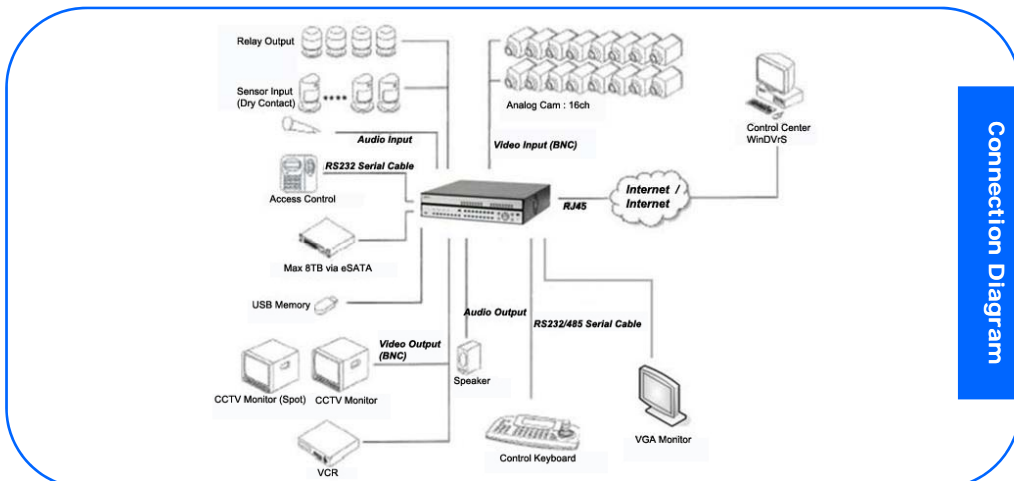
## MPEG-4 16ch Stand Alone DVR eDVR MD1600M



### Key Features

- 16ch stand-alone DVR with MPEG-4 and JPEG dual codec
- Max. 480/400ips recording with 2CIF (HALF) resolution (30/25ips per channel)
- Adjustable resolution (CIF, 2CIF/HALF, 4CIF/D1) and frame rate per channel
- Support JPEG encoding for multi channel network monitoring
- 2 internal and 2 hot-swappable HDDs with SATA type (Max. 4 HDDs can be installed)
- Support external storage with Max. 8TB via NVS04R\*, eSATA or IEEE1394b\*
- Storage extension via IEEE1394b\* (800Mbps) for RAID support
- 4ch audio inputs for recording and 1ch output for two-way audio
- Built-in 4 BNC monitor outputs (each monitor support 1/4/9/16ch and sequential mode)
- Built-in multiplexer for 16ch live monitoring and playback (1/4/9/16ch mode)
- Built-in DVD writer, USB and eSATA port for data backup
- Support large scaled storage (NVS04R\*) via Gigabit Ethernet
- PTZ control (support preset) via RS485/232
- Support static and dynamic IP for xDSL, cable-modem user
- Support IR remote controller and external keyboard/joystick via RS485/232
- Provide remote monitoring software (Control Center software)
- Built-in web server for web browser viewing and playback
- Support NTP (Network time protocol) for time synchronization
- Support WESP (WebGate embedded standard protocol) SDK for SI and project manager
- Date/time, log, text, smart search available from Control Center software
- Support IPFR (Intelligent power failure recovery)
- FCC, CE, MIC, RoHS approved

(\*Under development)



## Specification (MD1600M)

Item		Description
Video Input	Analog Ch.	16 BNC connectors (NTSC/PAL, Auto detect)
Video Output	Monitor	2 BNC (Each monitor support 16 division), 1 VGA
	Loop Out	16 with auto-termination
Video Compression		MPEG-4 & JPEG
Display	Speed	480/400ips (NTSC/PAL)
	Resolution	D1(4CIF), HALF(2CIF), CIF
	Multi Screen	1, 4, 9, 16ch
Recording	Speed	480/400ips (NTSC/PAL) at HALF(2CIF)
	Resolution	D1(4CIF), HALF(2CIF), CIF
	Multi Screen	1, 4, 9, 16ch
Sensor Input / Relay Output		16 input / 4 output, Configurable NO/NC
System Control		Key buttons, Remote client, IR remote, Keyboard controller (Option)
PTZ Control		RS485 / RS232
Audio		4ch input / 1ch output
Display		Brightness, Contrast and covert feature
Camera Title		22 Characters per channel
Recording Mode		Manual (Emergency), Alarm (Pre/Post), Schedule
Recording Quality		5 levels of compression rate / Record frame rate adjustment
Pre/Post Recording		5sec / 60sec
Motion Detection		22x15 (NTSC) or 22x18 (PAL) grid
Search Mode		Date/Time, Log, Text, Smart
Playback Mode		Forward, Reverse, Pause, 1x, 2x, 4x, 8x, 16x, 32x, 64x
Multiplex Function		Simultaneous live display/Playback/Record, Remote monitoring/Playback
Alarm Notification		Automatic e-mail, Internal buzzer, Relay-out, Pop-up screen, Network event
File System		Intelligent power failure recovery
Watermark		Yes
Password Protection		2 level (Admin/User)
Backup		DVD writer (DVD-R 4.7G media), eSATA, USB, R-HDD, Network, IEEE-1394b*, NVS04R*
Interface		2 RS-232C, 2 RS-485
Storage		2 internal HDD + 2 Hot-swappable SATA HDD
Network		TCP/IP, ARP, ICMP, DHCP, PPPoE, UDP, SMTP, SNMP, FTP, Sntp, HTTP*
Remote Control		Software application: Control Center Lite (supplied basically) Remote observation through web browser* Functions: Monitor, Search, Playback, Backup, Event monitor, PTZ
Operating System		Embedded Linux
Temperature Range	Operation	+5°C ~ +40°C (+41F ~ +113F)
	Storage	-25°C ~ +70°C (-13F ~ +158F)
Relative Humidity	Operation	93% RH below
	Storage	95% RH below
Dimensions (mm)		445(W) x 388(D) x 88(H)
Weight		10.3Kg
Power Consumption		Max. 85W, Typical 60W, AC 100~240V, 50/60Hz
Total Integration Solution & API		Control Center, WinDVrS, WESP SDK

(\*Under development)

