



## 8 AND 16 CHANNEL DVRs

The GANZ® Digi-Master Series is a powerful line of Digital Video Recorders designed to provide state-of-the-art features, exceptional recorded image quality and ease of operation. With up to 1.5 TB of internal storage capacity, this series provides up to 60 days recording time at 704 x 480 resolution. MPEG-4 compression saves high-quality images with smaller file sizes and allows more efficient transmission over Ethernet. USB-2 ports and optional CD-RW or DVD drive assure quick and easy archiving.

# 1.5 TB

*up to 1.5 TB storage capacity using 3x HDD*

- 8/16 ch video and 4 ch audio recording
- 120 images per second recording speed
- True TRIPLEX Operation
- Up to 704 x 480 (4 CIF/D1) resolution
- Optimized MPEG-4 compression
- 10/100 Base Network Connection allows remote viewing playback and PTZ control
- USB-2 Port for quick downloading to a thumb drive
- Internal DVD/CD-RW drive for data backup (optional)
- PTZ control (drivers for most popular models included)
- DDNS support for use with dynamic IP addresses
- Server-grade continuous duty hard disk drives optimize performance and improve reliability

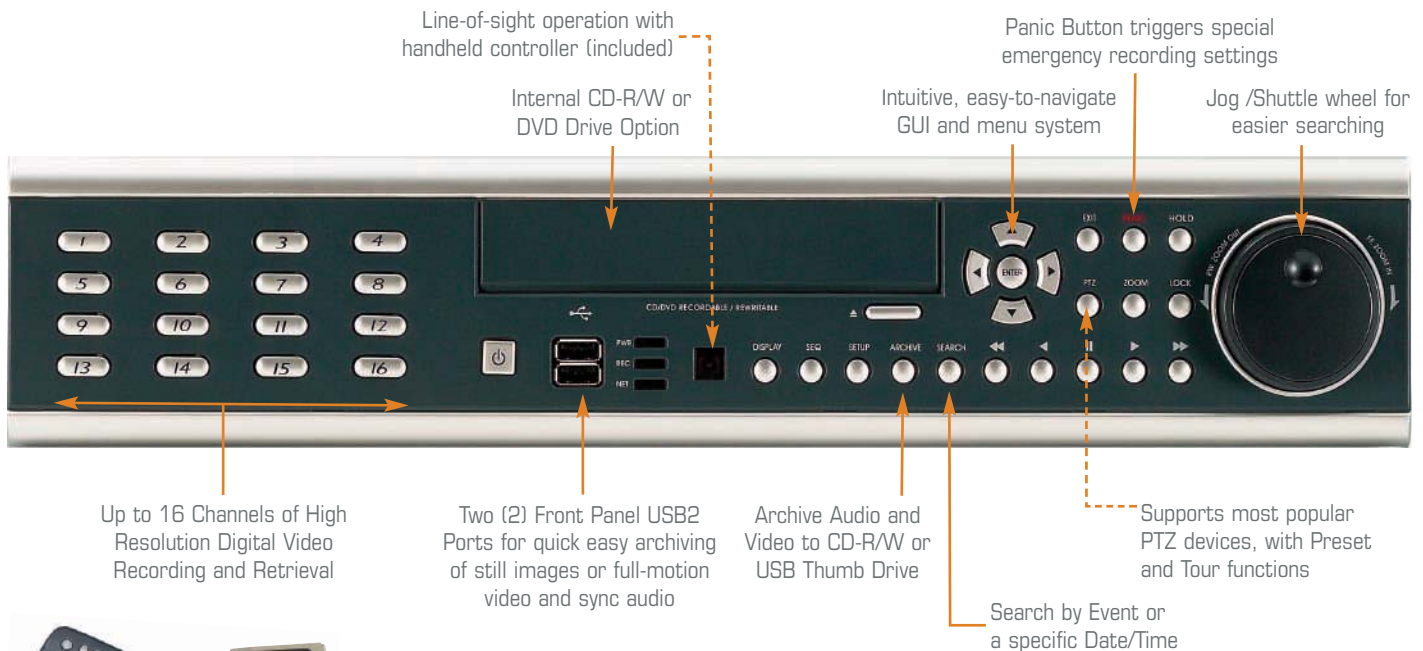


# DIGI MASTER

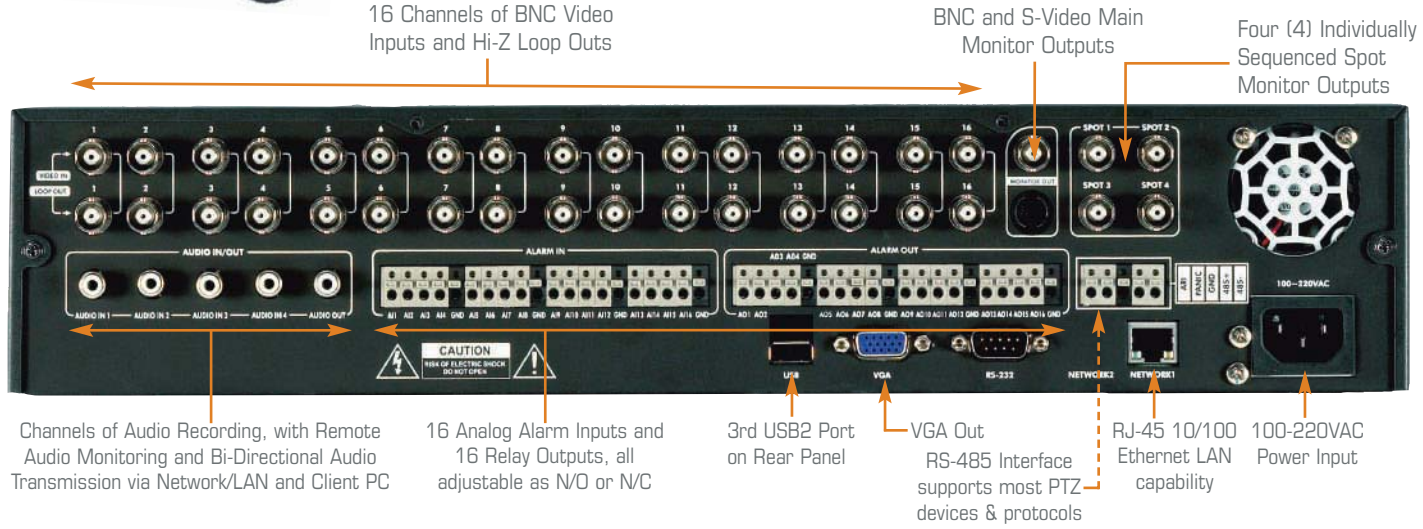
# DIGI MASTER

## features+highlights

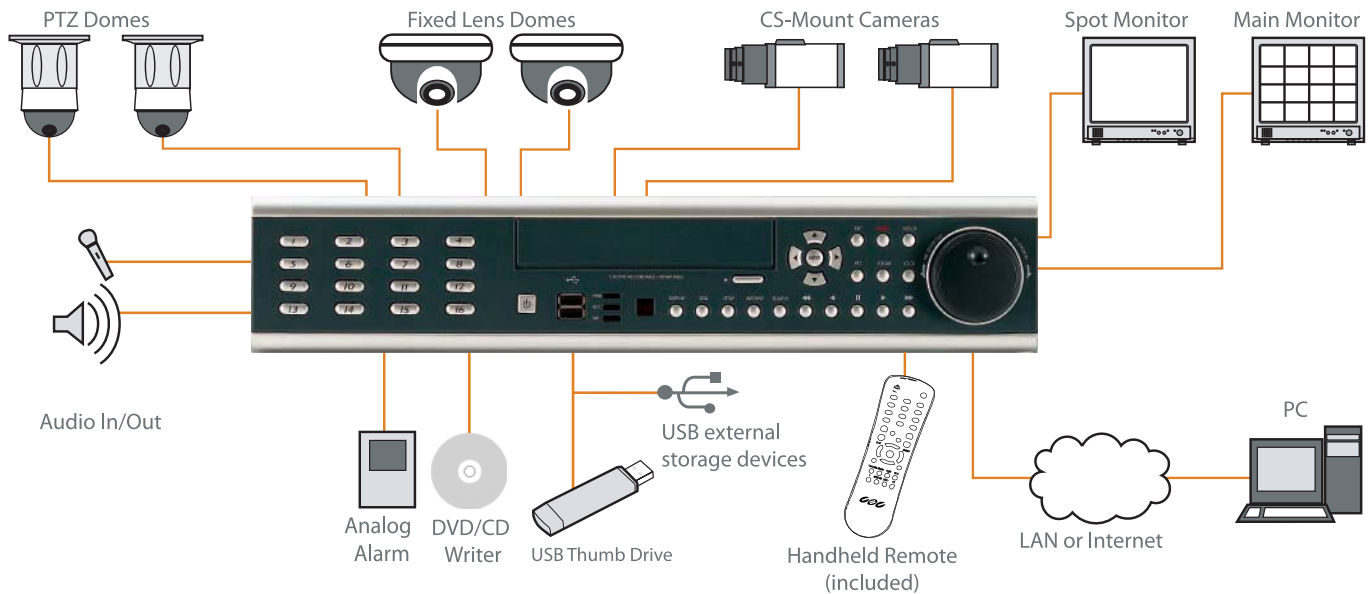
DigiMaster 8 and 16 channel MPEG-4 DVRs are compact, versatile, and very powerful. The units provide 'always-on' recording capability, with variable resolution, image quality, image rate, and audio recording; all are adjustable per channel. This series has several recording modes, including schedule, motion, alarm, and panic button recording, each with individually-adjustable settings per channel. The units have strong networking and data archiving features, along with a handheld IR Remote Controller and a USB Thumb Drive, included with each unit. DigiMaster boasts a large storage capacity, supporting up to three (3) internal HDDs (for up to 1.5 TB) and an optional internal CD-RW or DVD burner. MPEG-4 compression reduces HDD consumption, yet allows for excellent image reproduction, at any resolution. The easy-to-use yet powerful GUI ties it all together with organized menu navigation and strong administration features.



Handheld Remote and Thumb Drive included



# system diagram



Designed to work within a variety of system configurations, these units fit easily into your existing CCTV infrastructure. With a built-in RS-485 serial interface, the DigiMaster operates most of the popular PTZ devices on the market. The DigiMaster features integrated motion detection with live view motion area marking, analog alarm inputs and relay outputs, pre- and post-alarm recording buffers, and e-mail notification of alarm and system events. Strong networking features include remote PTZ control, live view, event log search, multi-channel playback, and remote download of archive video and audio data. Each unit has advanced management and scheduling features, automatic Daylight Savings Time adjustment, and support for continuous time correction via Network Time Protocol (NTP). Password protection and selectable covert-channel recording effectively restrict access to authorized users only.

## Recording Times (shown in days using a 500GB HDD)

Channel	CIF (352x240)				2CIF (704x240)				4CIF (704x480)			
	Highest	High	Standard	Low	Highest	High	Standard	Low	Highest	High	Standard	Low
30 ips	17.7	29	37	46	16.2	29.5	39.7	45.6	18.5	29.5	45.1	53.2
15 ips	11.2	17.5	22.1	26.9	10.8	17.8	23.2	27	11.9	17.8	25	29.8
7 ips	17.6	20	29.6	38.4	6.6	10.1	12.8	15.1	7.1	10.1	13.3	16
3 ips	14.4	16.4	24.4	30	8	8.8	12	14.8	4	5.5	6.8	8.3
2 ips	22	24.8	36.4	45.2	11.6	13.2	18.4	22	6	6.8	9.2	11.2
1 ips	43.6	49.6	52.8	90.4	23.6	26.8	36.4	44	11.6	13.2	18	22.4

Channel	CIF (352x240)				2CIF (704x240)				4CIF (704x480)			
	Highest	High	Standard	Low	Highest	High	Standard	Low	Highest	High	Standard	Low
30 ips	17.7	29	37	46	16.2	29.5	39.7	45.6	18.5	29.5	45.1	53.2
15 ips	11.2	17.5	22.1	26.9	10.8	17.8	23.2	27	11.9	17.8	25	29.8
7 ips	8.8	10	14.8	19.2	6.6	10.1	12.8	15.1	7.1	10.1	13.3	16
3 ips	7.2	8.2	12.2	15	4	4.4	6	7.4	4	5.5	6.8	8.3
2 ips	11	12.4	18.2	22.6	5.8	6.6	9.2	11	3	3.4	4.6	5.6
1 ips	21.8	24.8	26.4	45.2	11.8	13.4	18.2	22	5.8	6.6	9	11.2

Color Legend (maximum channels available at specified image rates)

up to 16 ch	up to 8 ch	up to 4 ch	only 2 ch	only 1 ch
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# Specifications

## SPECIFICATIONS

<b>Video Standard</b>	NTSC or PAL (switchable)
<b>Monitor Display</b>	Real Time 30FPS (NTSC) Per Camera
<b>Operating System</b>	Embedded Linux
<b>Record Scheduling</b>	Daily, Weekly, adjustable to specific hour per channel
<b>Record Mode</b>	Continuous, Motion, Event, Panic
<b>Remote Access</b>	TCP/IP, View, Search, Recording and Control (Client Software or browser)
<b>Playback</b>	Up to 16 channel simultaneous playback
<b>Pre/Post Alarm</b>	5 Secs (Pre), 3 Mins (Post), programmable per camera
<b>VGA Output</b>	Standard (for monitors with multi-sync function only) [1024 x 768, 60Hz]
<b>Motion Detection</b>	16 x 16 Grid, Sensitivity Levels: 10
<b>DVR Operation</b>	Triplex
<b>Video Inputs</b>	<b>16 Ch</b> - 16 Channel: 16 inputs, 1Vp-p, CVBS, 75 ohms, BNC <b>8 Ch</b> - 8 Channel: 8 inputs, 1Vp-p, CVBS, 75 ohms, BNC,
<b>Video Outputs</b>	<b>16 Ch</b> - 16 looping outputs <b>8 Ch</b> - 8 looping outputs
<b>Monitor Outputs</b>	1 x BNC Composite Video, S-VHS and VGA
<b>Spot Output</b>	<b>16 Ch</b> - 4 x 1Vp-p, CVBS, 75 ohms, BNC <b>8 Ch</b> - 2 x 1Vp-p, CVBS, 75 ohms, BNC
<b>Audio Inputs</b>	4 x line-in, RCA
<b>Audio Output</b>	1 x line-out, RCA
<b>Screen Options</b>	<b>16 Ch</b> - 1, 4, 6, 8, 9, 13, 16 <b>8 Ch</b> - 1, 4, 6, 8
<b>Resolution</b>	352x240, 704x240, 704x480 (NTSC)
<b>Compression Standard</b>	MPEG-4
<b>Recording Speed (ips)</b>	352x240: 120 ips, 704x240: 60 ips, 704x480: 30 ips
<b>Image File Size</b>	3-5 Kbyte (352x240), 5-10 Kbyte (704x240), 6-16 Kbyte (704x480)
<b>Hard Disk Capacity</b>	3 x HDD, No limit on HDD Size
<b>Back-up Storage</b>	USB Default (USB Memory Stick included), DVD/CD-RW (option)
<b>Alarm Inputs</b>	<b>16 Ch</b> - 16 x TTL, programmable as NC/NO <b>8 Ch</b> - 8 x TTL, programmable as NC/NO
<b>Alarm Outputs</b>	<b>16 Ch</b> - 16 x TTL <b>8 Ch</b> - 8 x TTL
<b>Back-up File Formats</b>	AVI, JPG, BMP
<b>Ethernet Interface</b>	10/100 Base-TX, RJ-45 connection
<b>Network Control</b>	Live View, Recording, Set-up, Playback, Search, Archiving
<b>PTZ Control</b>	via RS-485 Interface
<b>PTZ Operation</b>	Pan, Tilt, Zoom, Focus, Iris, Preset and Tour
<b>DayLight Saving</b>	Included
<b>Time Sync</b>	Automatic via NTP
<b>Software Updates</b>	via USB memory stick or Network (FTP)
<b>Security</b>	Multi-Level access control via user password
<b>Remote Alarm Notification</b>	via SMTP E-mail
<b>Supply Voltage</b>	100VAC - 240VAC, 60/50 Hz
<b>Operating Temperature</b>	41° - 104° Fahrenheit
<b>Dimensions</b>	16.9" X 3.5" X 18.1" (WXHXD)
<b>Rack Mount Size</b>	19" 2U rack mountable (rack mount ears optional)
<b>Weight</b>	16.1 pounds

## MODELS

### 8 Channel

DR8N*	8 Ch DVR w/no hard drive
DR8N-250*	250 GB HDD
DR8N-500*	500 GB HDD
DR8N-750*	750 GB HDD
DR8N-1TB*	1 TB HDD
DR8N-1.5TB*	1.5 TB HDD

### 16 Channel

DR16N*	16 Ch DVR w/no hard drive
DR16N-250*	250 GB HDD
DR16N-500*	500 GB HDD
DR16N-750*	750 GB HDD
DR16N-1TB*	1 TB HDD
DR16N-1.5TB*	1.5 TB HDD

\*Add suffix "C" for CD writer option (e.g.: DR16NC-250)

\*Add suffix "D" for DVD writer option (e.g.: DR16ND-250)

### Accessories

DR-RM2	Optional 19" Rack Mount Kit
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Compatible with our full line of Computer® Lenses and GANZ® CCTV Cameras



**ZC-PT Series**  
22x & 23x  
Day/Night WDR  
PTZ Domes



**BC Series**  
Day/Night Outdoor  
IR Camera



**ZC-NH258N - 540 TVL**  
Hi-Res Mechanical Day/Night Camera



**ZC-D3000 Series**  
540 TVL  
Hi-Res Domes



**ZC-OH2 Housings**  
Outdoor Dome Kits



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CS-Digm-107

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