



# DIGIMASTER

## 4, 8 & 16 CHANNEL DVRs 120 FPS

The Ganz DIGIMASTER 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 3 TB of internal storage capacity, this series provides more than 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 an optional DVD drive assure quick and easy archiving.

- 4/8/16 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 T Network Connection allows remote viewing, playback and PTZ control
- Mouse control through USB port
- USB-2 port for quick downloading to a thumb drive
- Internal DVD drive for data backup (optional)
- PTZ control (drivers for most popular models included)
- Panic button recording mode with adjustable settings per channel
- Hard disk drives engineered for Digital Video Surveillance optimize performance and improve reliability

# 3.0 TB

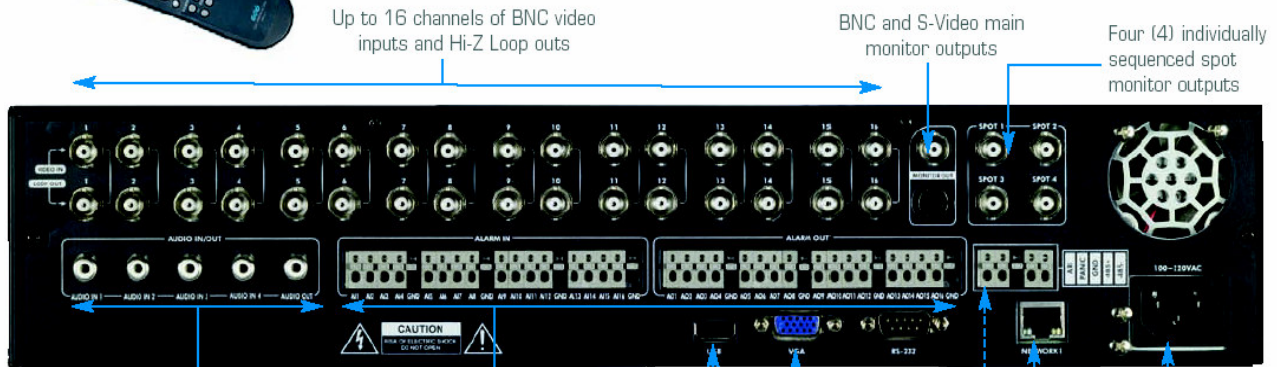


# features+highlights

DIGIMASTER 4, 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 and an optional internal 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.

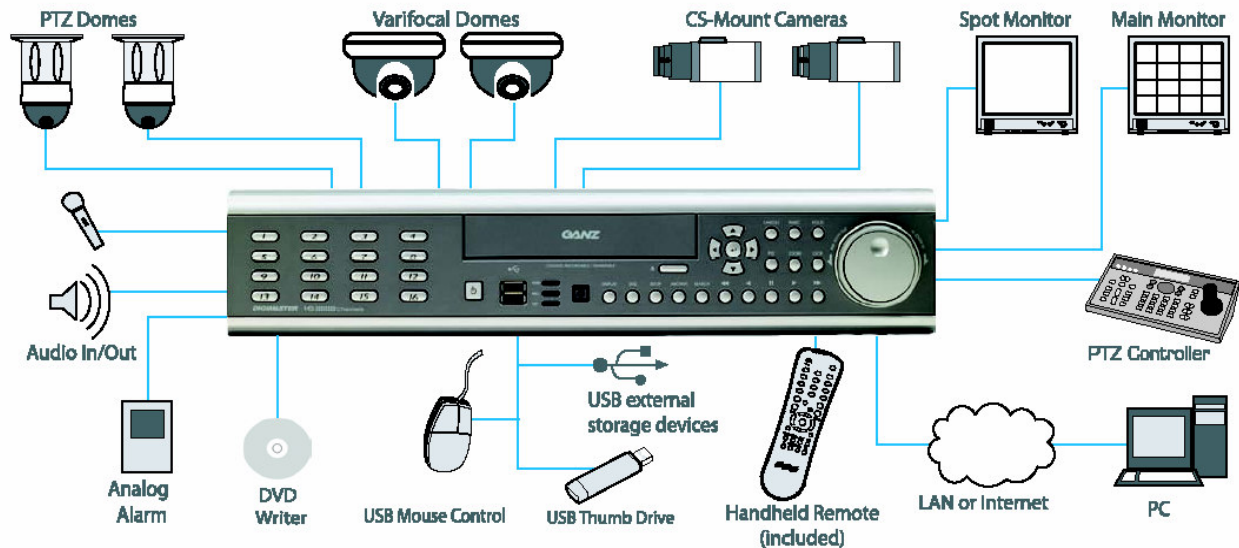


Handheld Remote and Thumb Drive included



Designed to work seamlessly with our full line of CCTV Products

# system configuration



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, remote configuration, 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 500 GB HDD-8/16 ch, 250 GB HDD-4 ch. See website for additional times)

| 4 Channel | CIF (352x240) |      |          |     | 2CIF (704x240) |      |          |     | 4CIF (704x480) |      |          |     |
|-----------|---------------|------|----------|-----|----------------|------|----------|-----|----------------|------|----------|-----|
|           | Highest       | High | Standard | Low | Highest        | High | Standard | Low | Highest        | High | Standard | Low |
|           | 15 ips        | 14   | 16       | 24  | 32             | 8    | 9        | 13  | 17             | -    | -        | -   |
| 7 ips     | 18            | 20   | 30       | 38  | 10             | 11   | 16       | 20  | 4.5            | 5    | 7        | 9   |
| 1 ips     | 44            | 50   | 73       | 90  | 24             | 27   | 36       | 44  | 12             | 13   | 18       | 22  |

| 8 Channel | CIF (352x240) |      |          |      | 2CIF (704x240) |      |          |      | 4CIF (704x480) |      |          |      |
|-----------|---------------|------|----------|------|----------------|------|----------|------|----------------|------|----------|------|
|           | Highest       | High | Standard | Low  | Highest        | High | Standard | Low  | Highest        | High | Standard | Low  |
|           | 15 ips        | 11.2 | 17.5     | 22.1 | 26.9           | 10.8 | 17.8     | 23.2 | 27             | 11.9 | 17.8     | 25   |
| 7 ips     | 17.6          | 20   | 29.6     | 38.4 | 6.6            | 10.1 | 12.8     | 15.1 | 7.1            | 10.1 | 13.3     | 16   |
| 1 ips     | 43.6          | 49.6 | 52.8     | 90.4 | 23.6           | 26.8 | 36.4     | 44   | 11.6           | 13.2 | 18       | 22.4 |

| 16 Channel | CIF (352x240) |      |          |      | 2CIF (704x240) |      |          |      | 4CIF (704x480) |      |          |      |
|------------|---------------|------|----------|------|----------------|------|----------|------|----------------|------|----------|------|
|            | Highest       | High | Standard | Low  | Highest        | High | Standard | Low  | Highest        | High | Standard | Low  |
|            | 15 ips        | 11.2 | 17.5     | 22.1 | 26.9           | 10.8 | 17.8     | 23.2 | 27             | 11.9 | 17.8     | 25   |
| 7 ips      | 8.8           | 10   | 14.8     | 19.2 | 6.6            | 10.1 | 12.8     | 15.1 | 7.1            | 10.1 | 13.3     | 16   |
| 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

# 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)<br>(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 inputs, 1Vp-p, CVBS, 75 ohms, BNC<br><b>8 Ch</b> - 8 inputs, 1Vp-p, CVBS, 75 ohms, BNC<br><b>4 Ch</b> - 4 inputs, 1Vp-p, CVBS, 75 ohms, BNC |
| <b>Video Outputs</b>             | <b>16 Ch</b> - 16 looping outputs<br><b>8 Ch</b> - 8 looping outputs<br><b>4 Ch</b> - 4 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<br><b>8 Ch</b> - 2 x 1Vp-p, CVBS, 75 ohms, BNC<br><b>4 Ch</b> - 1 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<br><b>8 Ch</b> - 1, 4, 6, 8<br><b>4 Ch</b> - 1, 4  |
| <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) and/or backup to CD/DVD media via optional DVD writer   |
| <b>Alarm Inputs</b>              | <b>16 Ch</b> - 16 x TTL, programmable as NC/NO<br><b>8 Ch</b> - 8 x TTL, programmable as NC/NO<br><b>4 Ch</b> - 4 x TTL, programmable as NC/NO                |
| <b>Alarm Outputs</b>             | <b>16 Ch</b> - 16 x TTL<br><b>8 Ch</b> - 8 x TTL<br><b>4 Ch</b> - 1 NC/NO   |
| <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 Savings</b>          | Included  |
| <b>Time Sync</b>                 | Automatic via NTP   |
| <b>Software Updates</b>          | via USB memory stick  |
| <b>Security</b>                  | Multi-Level access control via user password  |
| <b>Remote Alarm Notification</b> | via SMTP email  |
| <b>Supply Voltage</b>            | <b>8 /16 Ch</b> - 100VAC - 240VAC, 60/50 Hz<br><b>4 Ch</b> - DC12V /5A (adapter Supplied)   |
| <b>Operating Temperature</b>     | 41° - 104° Fahrenheit   |
| <b>Dimensions</b>                | <b>8/16 ch</b> - 16.9" x 3.5" x 18.1"<br><b>4 ch</b> - 14.2"x 2.8" x 15.3" (WxHxD)  |
| <b>Rack Mount Size</b>           | <b>8/16 ch</b> - 2U<br><b>4 ch</b> - 1.5U (see accessories for optional rack mount kits)  |
| <b>Weight</b>                    | <b>8/16 ch</b> - 16.1 lbs.<br><b>4 ch</b> - 8.3 lbs.  |

## MODELS

### 4 Channel

|             |                          |
|-------------|--------------------------|
| DR4N*       | 4 Ch DVR w/no hard drive |
| DR4N-250*   | 250 GB HDD               |
| DR4N-500*   | 500 GB HDD               |
| DR4N-750*   | 750 GB HDD               |
| DR4N-1TB*   | 1 TB HDD                 |
| DR4N-1.5TB* | 1.5 TB HDD               |

\*Add suffix "D" for DVD writer option (e.g.: DR4ND-250)

### 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               |
| DR8N-2.25TB* | 2.25 TB HDD              |

\*Add suffix "D" for DVD writer option (e.g.: DR8ND-250)

### 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                |
| DR16N-2TB*    | 2 TB HDD                  |
| DR16N-2.25TB* | 2.25 TB HDD               |
| DR16N-3TB     | 3 TB HDD                  |

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

### Accessories

|          |   |
|----------|---|
| DR4-RM1A | Optional 19" Rack Mount Kit for 4 channel models        |
| DR-RM2   | Optional 19" Rack Mount Kit for 8 and 16 channel models |



**CBC (AMERICA) Corp.**

NEW YORK: 55 MALL DRIVE COMMACK, NY 11725 • TEL: 1 (800) 422-6707 • (631) 864-9700 • FAX: (631) 543-5426  
 CALIFORNIA: 20521 EARL STREET TORRANCE, CA 90503 • TEL: 1 (800) 888-0131 • (310) 793-1500 • FAX: (310) 793-1506  
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