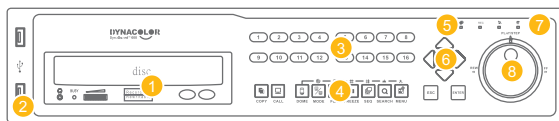


## H.264 Hybrid DVR

### network DynaGuard™ 600 II Series

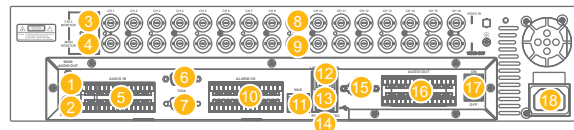


#### Front Panel



- |                        |                  |
|------------------------|------------------|
| ① DVD/RW or Cartridge* | ⑤ LEDs           |
| ② USB 2.0 Ports        | ⑥ Direction Keys |
| ③ Channel Keys         | ⑦ IR             |
| ④ Function Keys        | ⑧ Jog / Shuttle  |

#### Rear Panel



- |                             |                                |
|-----------------------------|--------------------------------|
| ① Main Audio Output         | ⑩ Alarm I/O and RS-485         |
| ② S-Video Output            | ⑪ NAS Port (RJ-45)             |
| ③ Call Monitor Output (BNC) | ⑫ LAN 10/100/1000 Mbps (RJ-45) |
| ④ Main Monitor Output (BNC) | ⑬ USB 2.0 Ports                |
| ⑤ Audio Input               | ⑭ NTSC / PAL Switch            |
| ⑥ VGA Output                | ⑮ RS-232                       |
| ⑦ Digital Display Output    | ⑯ Matrix Output*               |
| ⑧ Video Input               | ⑰ Power Switch                 |
| ⑨ Video Looping             | ⑱ Power Jack                   |

#### Features

##### Advanced Functions

- H.264 / MPEG-4 / MJPEG compression
- NEW** • Up to 4/8/16CH D1 real-time recording / playback
- NEW** • Support Full HD 1080p output
- NEW** • Up to 8CH IP camera recording
- NEW** • Megapixel video recording
- Pentaplex operation
- NEW** • Dual streaming
- NEW** • Privacy masks
- Flexible user management
- Per channel configuration
- NTP support for time synchronization
- Integrated WLAN, SMS
- Built-in Pelco Coaxitron® protocol
- POS function: transaction monitoring
- Digital display output
- Dual-gigabit LAN ports
- 4/8/16CH audio recording
- Mobile View software (iPhone support)
- DynaRemote™ for remote monitoring
- DynaGuard™ CMS for video management

Note: Items marked with an asterisk (\*) are optional

##### Humane Technology

- GUI
- NEW** • USB mouse / USB keyboard\*
- Control keyboard\*
- IR remote control
- Jog / Shuttle
- NEW** • UPnP™
- Exports AVI files for Microsoft® Media Player
- NEW** • Intelligence Playback Search

##### Modular Upgrade Kits

- T / V / U Module (DG600 II S only) for real-time recording
- NEW** • Matrix Module for additional 4 call monitors and alarm relay outputs
- NEW** • Mirroring Module for RAID 1/ RAID 10 function
- Alarm Hub for 16CH alarm relay output

## H.264 Hybrid DVR

## Specification

| Item                          |                | DG604 II S / T                                                                |  | DG608 II S / T / V                                      |  | DG616 II S / T / U                                      |  |
|-------------------------------|----------------|-------------------------------------------------------------------------------|--|---------------------------------------------------------|--|---------------------------------------------------------|--|
| <b>Video</b>                  |                |                                                                               |  |                                                         |  |                                                         |  |
| Operation System              |                | Embedded (Linux)                                                              |  |                                                         |  |                                                         |  |
| Video Standard                |                | NTSC / PAL Switch Selectable                                                  |  |                                                         |  |                                                         |  |
| Input                         |                | BNC × 4, 1.0 Vp-p, 75 ohm                                                     |  | BNC × 8, 1.0 Vp-p, 75 ohm                               |  | BNC × 16, 1.0 Vp-p, 75 ohm                              |  |
| Input IP Devices              |                | Up to 4CH                                                                     |  | Up to 8CH                                               |  | Up to 8CH                                               |  |
| Outputs                       | Main Monitor   | BNC × 1, S-Video × 1, 1.0 Vp-p, 75 ohm                                        |  |                                                         |  |                                                         |  |
|                               | Call Monitor   | BNC × 1, 1.0 Vp-p, 75 ohm                                                     |  |                                                         |  |                                                         |  |
|                               | Loop           | BNC × 4, 1.0 Vp-p, 75 ohm                                                     |  | BNC × 8, 1.0 Vp-p, 75 ohm                               |  | BNC × 16, 1.0 Vp-p, 75 ohm                              |  |
| Digital Display Output        |                | 800 × 600, 1024 × 768, 1280 × 1024, 1920 × 1080p pixels                       |  |                                                         |  |                                                         |  |
| VGA Output                    |                | 800 × 600, 1024 × 768, 1280 × 1024, 1920 × 1080p pixels                       |  |                                                         |  |                                                         |  |
| Picture Refresh Rate          |                | NTSC: 30 pps/per CH, PAL: 25 pps/per CH                                       |  |                                                         |  |                                                         |  |
| <b>Audio</b>                  |                |                                                                               |  |                                                         |  |                                                         |  |
| Input                         |                | Terminal Block × 4, Line-In                                                   |  | Terminal Block × 8, Line-In                             |  | Terminal Block × 16, Line-In                            |  |
| Output                        |                | RCA × 1, Line-Out                                                             |  |                                                         |  |                                                         |  |
| Compression Method            |                | ADPCM, G.726                                                                  |  |                                                         |  |                                                         |  |
| Data Rate                     |                | 8 KB/s, per CH                                                                |  |                                                         |  |                                                         |  |
| <b>Recording / Playback</b>   |                |                                                                               |  |                                                         |  |                                                         |  |
| Compression Method            |                | H.264 (DG600 II S / T / V / U); MPEG-4 / MJPEG (DG600 II S / T)               |  |                                                         |  |                                                         |  |
| Recording Mode                |                | Schedule, Alarm, Motion Detection                                             |  |                                                         |  |                                                         |  |
| Pre-alarm                     |                | Yes                                                                           |  |                                                         |  |                                                         |  |
| H.264                         | NTSC 720 × 480 | S / T : Max 60 / 120 pps                                                      |  | S / T / V: Max 60 / 120 / 240 pps                       |  | S / T / U: Max 60 / 120 / 480 pps                       |  |
|                               | PAL 720 × 576  | S / T : Max 50 / 100 pps                                                      |  | S / T / V: Max 50 / 100 / 200 pps                       |  | S / T / U: Max 50 / 100 / 400 pps                       |  |
| MPEG-4 / MJPEG                | NTSC 720 × 480 | S / T : Max 120 / 120 pps                                                     |  | S / T : Max 120 / 240 pps                               |  | S / T : Max 120 / 240 pps                               |  |
|                               | PAL 720 × 576  | S / T : Max 100 / 100 pps                                                     |  | S / T : Max 100 / 200 pps                               |  | S / T : Max 100 / 200 pps                               |  |
| Recording Quality             |                | 8 Levels Presets, Adjustable                                                  |  |                                                         |  |                                                         |  |
| Storage Mode                  |                | Linear / Circular                                                             |  |                                                         |  |                                                         |  |
| Data Lifetime                 |                | Yes, Programmable                                                             |  |                                                         |  |                                                         |  |
| <b>Storage</b>                |                |                                                                               |  |                                                         |  |                                                         |  |
| Built-in Storage Interface    |                | × 4 SATA for HDD and DVD+RW                                                   |  |                                                         |  |                                                         |  |
| Cartridge / DVD+RW            |                | Optional / Standard                                                           |  |                                                         |  |                                                         |  |
| Export                        |                | × 4 USB 2.0 Ports, Support ThumbDrive                                         |  |                                                         |  |                                                         |  |
| <b>Alarm</b>                  |                |                                                                               |  |                                                         |  |                                                         |  |
| Alarm Input                   |                | × 4, Terminal Block (TTL)                                                     |  | × 8, Terminal Block (TTL)                               |  | × 16, Terminal Block (TTL)                              |  |
| Alarm Relay Output            |                | × 2, Terminal Block,<br>3.0A / 30 VDC or 3.0A / 125 VAC                       |  | × 2, Terminal Block,<br>3.0A / 30 VDC or 3.0A / 125 VAC |  | × 3, Terminal Block,<br>3.0A / 30 VDC or 3.0A / 125 VAC |  |
| Alarm Detection               |                | N.C. / N.O., Programmable                                                     |  |                                                         |  |                                                         |  |
| Motion Detection              |                | 15 × 11 Grid Array, Sensitivity, Trigger level adjustable                     |  |                                                         |  |                                                         |  |
| Video Loss Detection          |                | Programmable                                                                  |  |                                                         |  |                                                         |  |
| <b>Communication</b>          |                |                                                                               |  |                                                         |  |                                                         |  |
| Network Connectivity          |                | RJ-45, 10/100/1000 Mbps Ethernet                                              |  |                                                         |  |                                                         |  |
| Compatible IP Cameras         |                | DynaColor, Axis, Sony, ACTi, Vivotek, Sanyo                                   |  |                                                         |  |                                                         |  |
| Remote Control Software       |                | DynaGuard™ CMS, DynaRemote™①                                                  |  |                                                         |  |                                                         |  |
| Remote Operation              |                | Monitoring, Playback, Recording, System setup, Dome camera control, Archiving |  |                                                         |  |                                                         |  |
| RS-232C                       |                | D-SUB 9 pin male                                                              |  |                                                         |  |                                                         |  |
| RS-485                        |                | Terminal Block                                                                |  |                                                         |  |                                                         |  |
| Dome Camera Control Protocol  |                | DSCP, Pelco P, Pelco D, AD422, Fastrax 2, Panasonic, JVC                      |  |                                                         |  |                                                         |  |
| <b>General</b>                |                |                                                                               |  |                                                         |  |                                                         |  |
| Unit Dimension (W × H × D)    |                | 440 × 90 × 413 mm (17.3 × 3.54 × 16.3 inches)                                 |  |                                                         |  |                                                         |  |
| Unit Weight                   |                | 7 Kg (15.42 lbs ) with DVD+RW                                                 |  |                                                         |  |                                                         |  |
| Package Dimension (W × H × D) |                | 563 × 197 × 521 mm (22.17 × 7.76 × 20.51 inches)                              |  |                                                         |  |                                                         |  |
| Package Weight                |                | 10 Kg (22.03 lbs)                                                             |  |                                                         |  |                                                         |  |
| Operation Temperature         |                | 0 °C ~ 40 °C (32 °F ~ 104 °F)                                                 |  |                                                         |  |                                                         |  |
| Relative Humidity             |                | 10% ~ 90%, Non-condensing                                                     |  |                                                         |  |                                                         |  |
| Power Consumption & Input     |                | AC 100 ~ 240V, 50-60 Hz, 200W                                                 |  |                                                         |  |                                                         |  |

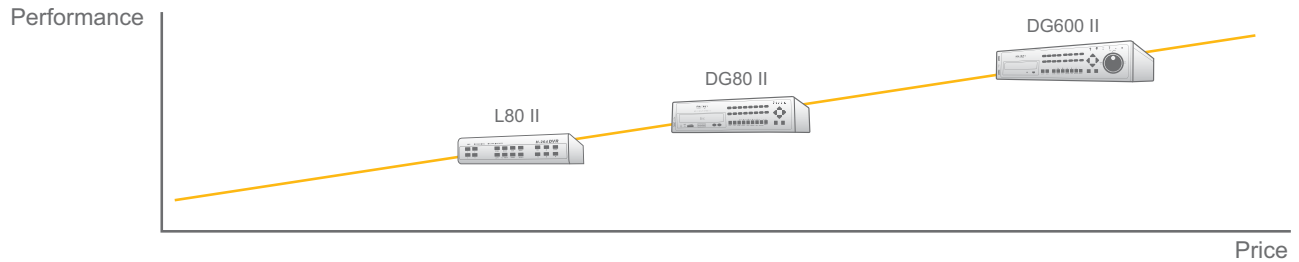
Product specification and availability subject to change without notice. Certain product names mentioned herein may be trade names and / or registered trademarks of their companies.

Remark ①: DynaRemote™ Software Requirements:

Windows 2000, XP or Vista, Intel® Pentium® M 1.40GHZ or faster, 512 MB RAM (1 GB RAM or above is recommended), Microsoft® Internet Explorer 6.0 SP2, LAN or Internet connection.

## H.264 Hybrid DVR

### Value Chart



### Comparison Chart

| Feature                     | Premium H.264 DVR DG600 II Series |                  |               | Versatile H.264 DVR DG80 II Series |         |         | Lite H.264 DVR L80 II Series |        |        |        |
|-----------------------------|-----------------------------------|------------------|---------------|------------------------------------|---------|---------|------------------------------|--------|--------|--------|
|                             | DG616 II S/ T/ U                  | DG608 II S/ T/ V | DG604 II S/ T | DG86 II                            | DG88 II | DG84 II | L86T                         | L86 II | L88 II | L84 II |
| <b>Recording</b>            |                                   |                  |               |                                    |         |         |                              |        |        |        |
| Recording Rate (H.264 @ D1) | 60/ 120/ 480                      | 60/ 120/ 240     | 60/ 120       | 480                                | 240     | 120     | 120                          | 120    | 60     | 60     |
| Recording Rate (M / J @ D1) | 120/ 240/ -                       | 120/ 240/ -      | 120/ 120      | -                                  | -       | -       | -                            | -      | -      | -      |
| *Compression Method         | H/ M/ J                           | H/ M/ J          | H/ M/ J       | H                                  | H       | H       | H                            | H      | H      | H      |
| IP Camera Compatibility     | 8                                 | 8                | 4             | 4                                  | -       | -       | -                            | -      | -      | -      |
| Per Channel Configuration   | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| <b>Storage</b>              |                                   |                  |               |                                    |         |         |                              |        |        |        |
| Max. HDDs                   | 4                                 | 4                | 4             | 4                                  | 2       | 2       | 4                            | 2      | 2      | 2      |
| Network Attached Storage    | ○                                 | ○                | ○             | -                                  | -       | -       | -                            | -      | -      | -      |
| Gigabit LAN Port            | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| USB Ports                   | 4                                 | 4                | 4             | 2                                  | 2       | 2       | 2                            | 2      | 2      | 2      |
| DVD Burner                  | •                                 | •                | •             | ○                                  | ○       | ○       | ○                            | ○      | ○      | ○      |
| <b>Remote Network</b>       |                                   |                  |               |                                    |         |         |                              |        |        |        |
| DynaRemote™ S/W             | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| WLAN / SMS                  | •                                 | •                | •             | -                                  | -       | -       | -                            | -      | -      | -      |
| <b>Upgrade Kits</b>         |                                   |                  |               |                                    |         |         |                              |        |        |        |
| Mirroring Module            | ○                                 | ○                | ○             | -                                  | -       | -       | -                            | -      | -      | -      |
| Matrix Module               | ○                                 | ○                | ○             | -                                  | -       | -       | -                            | -      | -      | -      |
| T / V / U Module            | ○/ -/ -                           | ○/ -/ -          | ○/ -          | -                                  | -       | -       | -                            | -      | -      | -      |
| Alarm Hub                   | ○                                 | ○                | ○             | ○                                  | ○       | ○       | ○                            | ○      | ○      | ○      |
| <b>Application</b>          |                                   |                  |               |                                    |         |         |                              |        |        |        |
| DynaGuard™ CMS              | •                                 | •                | •             | •                                  | •       | •       | ○                            | ○      | ○      | ○      |
| Mobile View S/W             | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| Time Synchronization        | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| UPnP™                       | •                                 | •                | •             | -                                  | -       | -       | -                            | -      | -      | -      |
| Dual streaming              | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| Digital Display Output      | •                                 | •                | •             | •                                  | •       | •       | ○                            | ○      | ○      | ○      |
| <b>Operation Interface</b>  |                                   |                  |               |                                    |         |         |                              |        |        |        |
| Jog / Shuttle               | •                                 | •                | •             | -                                  | -       | -       | -                            | -      | -      | -      |
| USB Mouse                   | ○                                 | ○                | ○             | ○                                  | ○       | ○       | ○                            | ○      | ○      | ○      |
| USB Keyboard                | ○                                 | ○                | ○             | ○                                  | ○       | ○       | ○                            | ○      | ○      | ○      |
| IR Remote Control           | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |
| Compact Control Keyboard    | ○                                 | ○                | ○             | ○                                  | ○       | ○       | ○                            | ○      | ○      | ○      |
| GUI                         | •                                 | •                | •             | •                                  | •       | •       | •                            | •      | •      | •      |

\* : H stands for H.264 compression, M stands for MPEG-4 compression, J stands for MJPEG compression, U and V models don't support MPEG-4 and MJPEG compressions

• Support ○ Optional - Not support

The network DynaGuard™ series supports H.264 compression and Megapixel IP camera recording. It keeps all intelligent functions for managing and provides an integrated solution of recording videos from both existing analog cameras and oncoming IP cameras. With the hybrid video-in configurations, it saves the cost of replacement of camera devices in the period of IP transition.

The Central Management System, DynaGuard™ CMS, is a free bundled video management software that allows the administrator to monitor up to 64 live video channels from cameras or DVRs, to record and playback on the PC using instant or schedule recording modes, and to archive the DVR recorded video remotely.