

DVR BL 1600

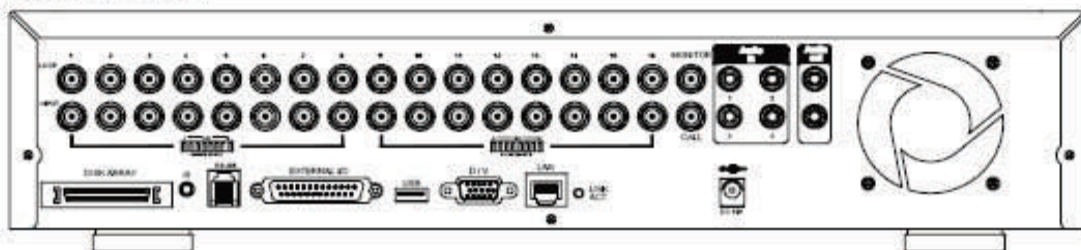


MPEG-4 DVR (16CH)

● Features

- **MPEG4 DVR Technology**
 - Compression format providing crystal clear images with real time performance
- **Multiplex Operation**
 - Allow live display, record, playback, backup, and network operations at the same time
- **Remote Independent Operation**
 - Allow you to individually see the live view of a single channel without changing the display setting from AP side
- **Huge Storage Capacity**
 - Support up to 3 HDD accommodation, or 2 HDD accommodation + independent disk array
- **Free Upgrade to Advanced Functions**
 - Allow you to upgrade DVR functions without any charges
- **Long-Recording Hours**
 - 500GB can record more than 52 days (16CH, CIF Normal Quality, 60FPS)
- **Backup Function**
 - Support USB flash drive, network & DVD writer backup
- **Remote Surveillance**
 - Support remote surveillance up to 5 users simultaneously with licensed software AP and IE browser
- **Intelligent Motion Trigger Recording**
 - R.E.T.R. (Remote Event Trigger Recording)
 - With the advanced functions of motion detection, scheduled motion detection recording (4 different adjustable factors for motion detection sensitivity) and quick search, customized security environments are achieved
 - Alarm trigger recording will send alerts with images to designated e-mails and the FTP address
 - Support pre-alarm recording (8MB)
- **Covert Recording**
 - A mask replaces the live image with a blank screen and the monitor shows nothing, but the recording is still on
- **A/V Support**
 - Support 4 audio-in, 2 audio-out to record sounds
 - Support VGA output to monitor (optional)
- **General**
 - Support multi-language OSD
 - Support IR remote control
 - System auto recovery after power reconnected
 - Support IR remote control, PTZ camera operations through RS-485, and PTZ Hot Point function
 - Support daylight saving function
 - Support manual / timer / motion / alarm / network recording
 - Ensure the authentication of recorded images with Watermark function
 - Support TCP/IP, PPPoE, DHCP and DDNS network connection

● Rear Panel



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MPEG-4 DVR (16CH)

● Specification

| | |
|--|--|
| Video System | NTSC / PAL (switchable) |
| Video Compression Format | MPEG4 |
| Video Input (Composite video signal 1 Vp-p 75Ω BNC) | 16 Channels |
| Video Loop Output (Composite video signal 1 Vp-p 75Ω BNC) | 16 Channels |
| Video Output | Main Monitor Output: Composite video signal 1 Vp-p 75Ω BNC ; Call Monitor Output: Composite video signal 1 Vp-p 75Ω BNC |
| Maximum Recording Rate (Frame) | 720x480 pixels with 120 IPS <NTSC> / 720x576 pixels with 100 IPS <PAL> |
| Maximum Recording Rate (CIF) | 352x240 pixels with 480 IPS <NTSC> / 352x288 pixels with 400 IPS <PAL> |
| Adjustable Recording Speed (Frame) | 120, 60, 30, 15 IPS <NTSC> / 100, 50, 25, 12 IPS <PAL> |
| Adjustable Recording Speed (CIF) | 480, 240, 120, 60 IPS <NTSC> / 400, 200, 100, 50 IPS <PAL> |
| Multilingual OSD | YES |
| Image Quality Setting | Best, High, Normal, and Basic |
| Hard Disk Storage (IDE type, ATA66) (Over 500GB) | Accommodate 3 HDDs*, or 2 HDDs plus independent disk array* * HDDs and disk arrays are optional. |
| HDD Quick Cleaning | Quick clean up the "index system" of the recorded files (500GB under 2 seconds) |
| Recording Mode | Manual / Timer / Motion / Alarm / Remote |
| Watermark | YES |
| Refresh Rate | 480 IPS for NTSC / 400 IPS for PAL |
| Multiplex Operation | Pentaplex: live display, record, playback, backup and network |
| Independent Remote Operation | YES |
| Audio I/O | 4 audio inputs, 2 audio outputs (Mono) |
| R.E.T.R. (Remote Event Trigger Recording) | YES |
| Motion Detection Area | 16 x 12 grids per camera for all channels |
| Motion Detection Sensitivity | 4 adjustable variables with precise calculation for motion detection |
| Pre-alarm Recording | Yes (8 MB) |

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● Specification

| | |
|--|---|
| Backup Device | 1. USB flash drive backup; 2. Network remote backup; 3. DVD writer backup |
| USB Interface | Front panel * 1, back panel * 1 |
| Web Transmitting Compression Format | Motion JPEG |
| Network Independent | YES |
| Ethernet | 10/100 Base-T. Support remote control and live view via Ethernet |
| Web Interface | Support licensed software AP and IE browser |
| Remote Alarm Notification | Email images, and upload images to FTP site's specific account |
| Network Protocol | TCP/IP, PPPOE, DHCP and DDNS |
| IR Transmitter | YES |
| PTZ Control | Support PELCO-D protocol |
| Dwell Time (Sequential Channel Switch) | Programmable with adjustable dwell time (2, 4, 8, 16 sec.) |
| Alarm I/O | 16 inputs, 1 output |
| Picture Zoom | 2X digital zoom |
| Key Lock | YES |
| Video Loss Detection | YES |
| Camera Title | Support up to 8 letters |
| Video Adjustable | Hue / Color / Contrast / Brightness |
| Date Display Format | YY/MM/DD, DD/MM/YY, MM/DD/YY, and Off |
| Daylight Saving | YES |
| Power Source | DC 19V |
| Power Consumption | <64 W |
| Operating Temperature | 10°C ~ 40°C (50°F~104°F) |
| Dimensions (mm) | 432mm (W) × 90mm (H) × 326mm (D) |
| System Recovery | System auto recovery after power reconnected |
| Optional Peripherals | Independent disk array, VGA converter |

* The specifications are subject to change without notice.

RECORDING TIME TABLE

The recording time varies depending on the following factors:

- Different camera quality
- Different picture composition (such as frequency of the object movement)

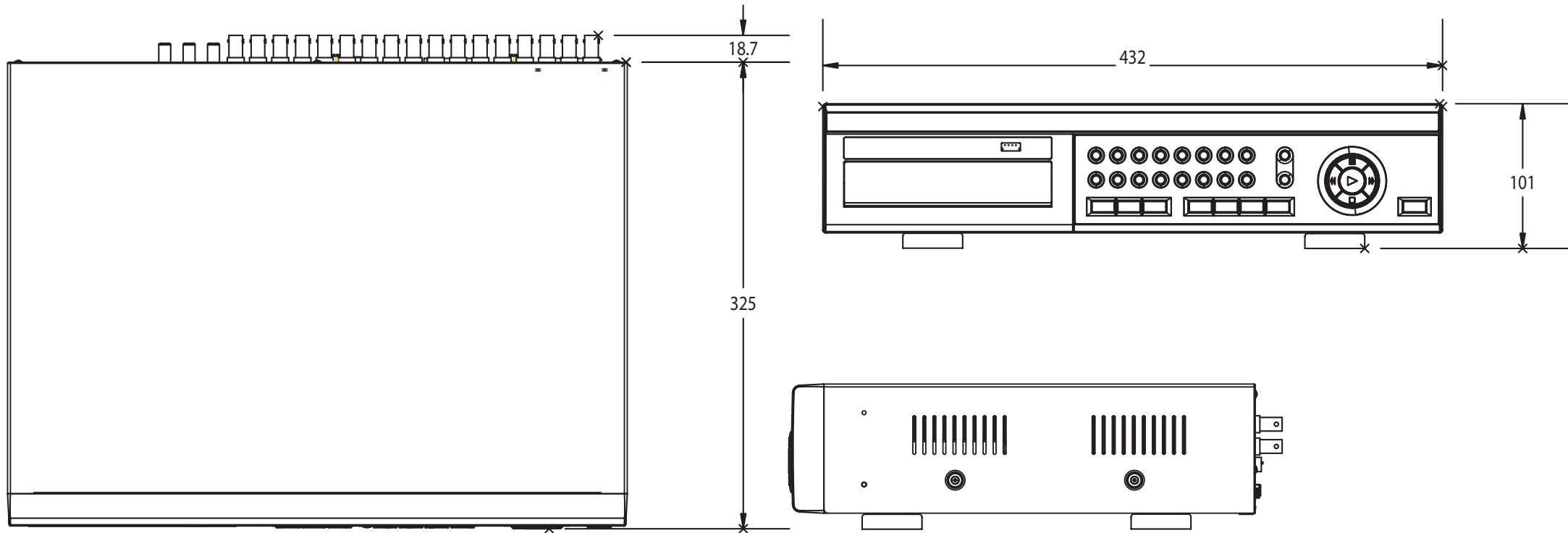
16CH Model DVR Recording Time

| RECORD MODE | QUALITY | IPS | RECORD TIME FOR 500GB (HOUR) | RECORD DAY |
|-------------|---------|-----|---------------------------------|------------|
| FRAME | BEST | 120 | 109 | 4.6 |
| | | 60 | 192 | 8.0 |
| | | 30 | 349 | 14.6 |
| | | 15 | 565 | 23.5 |
| | HIGH | 120 | 138 | 5.8 |
| | | 60 | 243 | 10.1 |
| | | 30 | 442 | 18.4 |
| | | 15 | 714 | 29.8 |
| | NORMAL | 120 | 182 | 7.6 |
| | | 60 | 319 | 13.3 |
| | | 30 | 581 | 24.2 |
| | | 15 | 939 | 39.1 |
| | BASIC | 120 | 293 | 12.2 |
| | | 60 | 516 | 21.5 |
| | | 30 | 939 | 39.1 |
| | | 15 | 1517 | 63.2 |
| CIF | BEST | 480 | 130 | 5.4 |
| | | 240 | 229 | 9.5 |
| | | 120 | 417 | 17.4 |
| | | 60 | 673 | 28.0 |
| | HIGH | 480 | 184 | 7.6 |
| | | 240 | 323 | 13.4 |
| | | 120 | 587 | 24.5 |
| | | 60 | 949 | 39.5 |
| | NORMAL | 480 | 242 | 10.1 |
| | | 240 | 424 | 17.7 |
| | | 120 | 773 | 32.2 |
| | | 60 | 1249 | 52.0 |
| | BASIC | 480 | 335 | 13.9 |
| | | 240 | 588 | 24.5 |
| | | 120 | 1071 | 44.6 |
| | | 60 | 1730 | 72.1 |

8CH Model DVR Recording Time

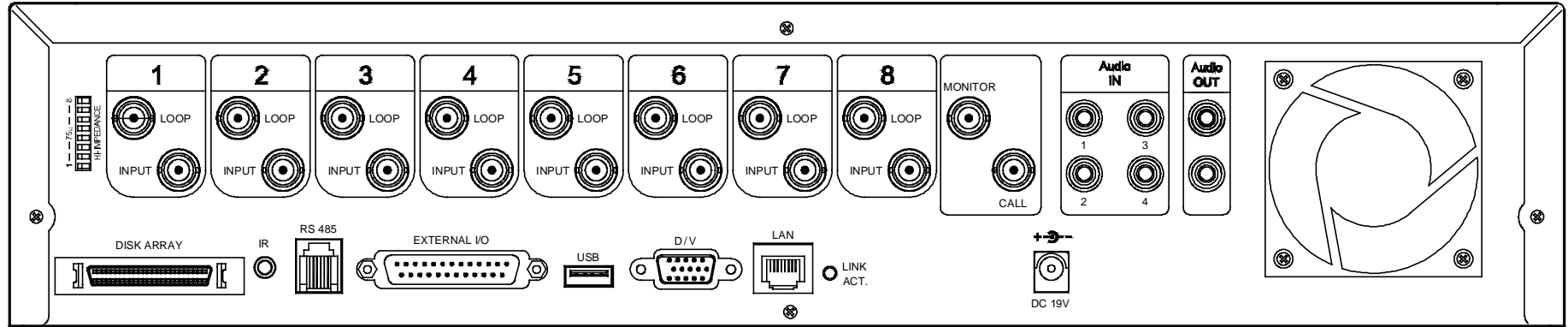
| RECORD MODE | QUALITY | IPS | RECORD TIME FOR 500GB (HOUR) | RECORD DAY |
|-------------|---------|-----|------------------------------|------------|
| FRAME | BEST | 60 | 218 | 9.2 |
| | | 30 | 384 | 16.0 |
| | | 15 | 698 | 29.2 |
| | | 7 | 1130 | 47 |
| | HIGH | 60 | 276 | 11.6 |
| | | 30 | 486 | 20.2 |
| | | 15 | 884 | 36.8 |
| | | 7 | 1428 | 59.6 |
| | NORMAL | 60 | 364 | 15.2 |
| | | 30 | 638 | 26.6 |
| | | 15 | 1162 | 48.2 |
| | | 7 | 1878 | 78.2 |
| | BASIC | 60 | 586 | 24.4 |
| | | 30 | 1032 | 43.0 |
| | | 15 | 1878 | 78.2 |
| | | 7 | 3034 | 126.4 |
| CIF | BEST | 240 | 260 | 10.8 |
| | | 120 | 458 | 19.0 |
| | | 60 | 834 | 34.8 |
| | | 30 | 1346 | 56.0 |
| | HIGH | 240 | 368 | 15.2 |
| | | 120 | 646 | 26.8 |
| | | 60 | 1174 | 49.0 |
| | | 30 | 1898 | 79.0 |
| | NORMAL | 240 | 484 | 20.2 |
| | | 120 | 848 | 35.4 |
| | | 60 | 1546 | 64.4 |
| | | 30 | 2498 | 104.0 |
| | BASIC | 240 | 670 | 27.8 |
| | | 120 | 1176 | 49.0 |
| | | 60 | 2142 | 89.2 |
| | | 30 | 3460 | 144.2 |

Dimensions (Unit : mm)



REAR PANELS

- 8CH



- 16CH

