# LTD8316D-ET
## Platinum 16 Channel DVR with Direct Search & MD 2.0

- 16 channels and 2 HDD 1U MD 2.0 DVR
- Supports 4 channels of Facial Recognition or 8 channels of advanced VCA based on Deep Learning algorithm
- Supports 8 channels Direct Search Technology
- Efficient H.265 Pro+ compression technology
- Encoding ability up to 3K / 5 MP Lite @ 12fps
- Up to 24 channels IP camera inputs, each channel up to 6MP
- Up to 24 x 1080p @ 30 fps decoding ability
- 5 signals input adaptively (HD-TVI / AHD / CVI / CVBS / IP)
- Supports Motion Detection Technology on all channels
- Supports HD-TVI Two-Way Audio technology on all channels

## Functions

Compression and Recording
- · H.265 Pro+ can be enabled to improve encoding efficiency and reduce data storage costs
- · Recording at up to 3K / 5 MP Lite resolution

Smart Function
- · Up to 16 channels  (analog channel) Motion Detection 2.0
- · Up to 8 channels  (advanced model, analog channel) VCA
- · Up to 4 channels  (advanced model, analog channel) human face recognition
- · Supports smart playback to enhance playback efficiency

Network & Ethernet Access
- · Supports LTS Connect & DDNS (Dynamic Domain Name System)
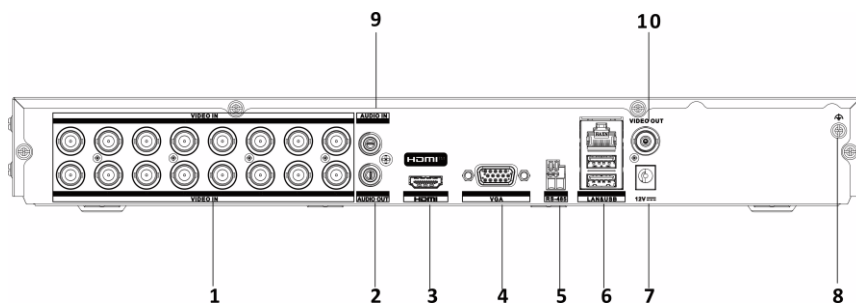- · Output bandwidth limit configurable

## Specifications

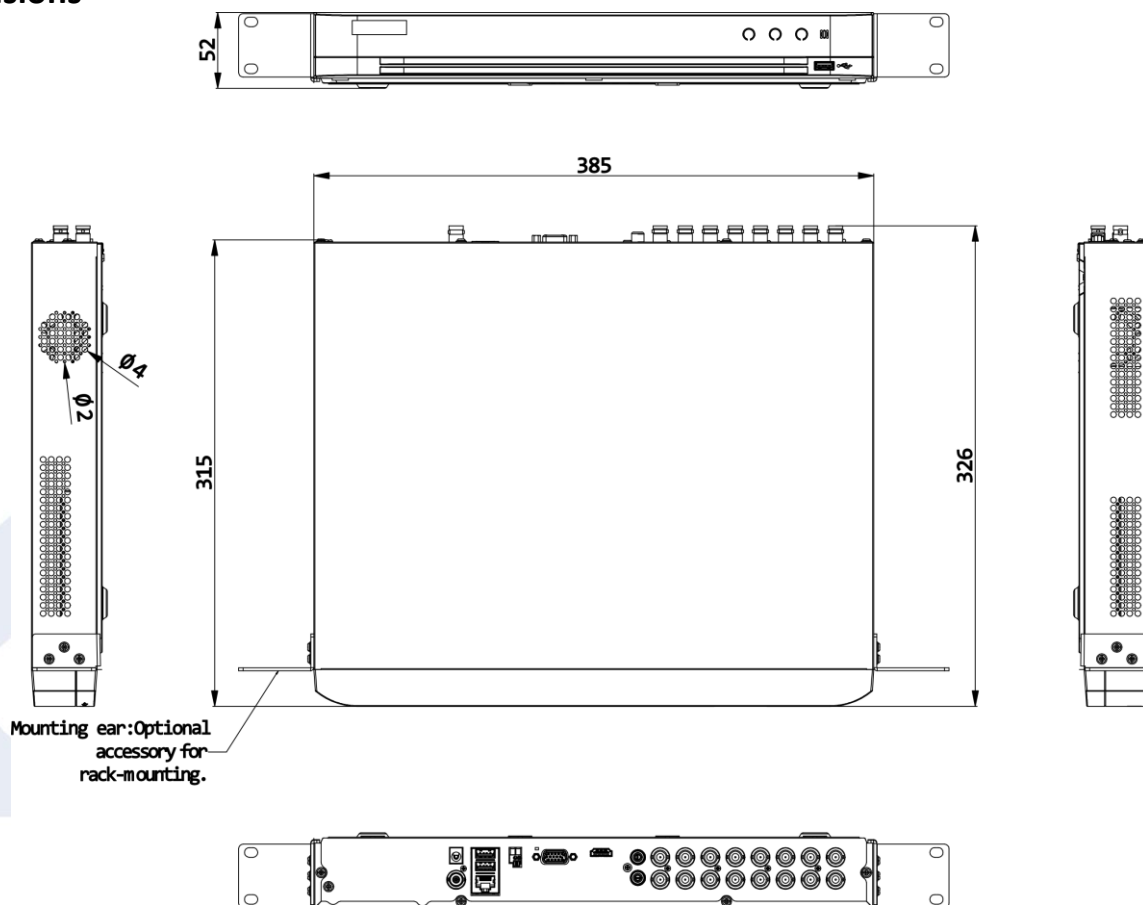| Facial Recognition | |
|---|---|
| Face Image Library | Up to 16 face image libraries;<br>HDD damage will not cause data loss in the face image library, because the library has been backed up by HDD and flash. |
| Face Image Comparison | 4 chs of face image comparison alarm (HD analog camera) |
| **Motion Detection 2.0** | |
| Human / Vehicle Analysis | Deep learning-based motion detection 2.0 is enabled by default for all analog channels; it can classify human and vehicle, and extremely reduce false alarms caused by objects like leaves and lights.<br>Quick search by object or event type is supported. |
| **VCA** | |
| Human / Vehicle Analysis | Up to 8 chs (advanced model) |
| **Facial Detection** | |
| Facial Detection and Capture | Face image detection, face image search<br>4 chs face picture capture |
| **Video and Audio** | |
| IP Video Inputs | 8 chs (up to 24-ch), each up to 6 MP |
| Analog Video Inputs | 16 ch<br>BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection |
| HDMI Output | 1 ch, 4K (3840 × 2160) / 30 Hz, 2K (2560 × 1440) / 60 Hz, 1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz |
| CVBS Inputs | PAL/NTSC |
| CVBS Output | 1 ch, BNC (1.0 Vp-p, 75 Ω),<br>Resolution: PAL: 704 × 576, NTSC: 704 × 480 |
| Synchronous Playback | 16 chs |
| HDTVI Inputs | 3K (2960 x 1665) @ 25 / 20 fps, 3K (3328x1504) @ 20 fps, 5 MP (2560 × 1944) @ 20 fps, 4 MP (2560 × 1440) @ 25 / 30 fps, 1080p @ 25 / 30 fps, 720p @ 25 / 30 fps |
| VGA Output | 1 ch, 1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz |
| AHD Inputs | 5 MP (2560 × 1944) @ 20 fps, 4 MP (2560 × 1440) @ 25 / 30 fps,1080p @ 25 / 30 fps, 720p @ 25 / 30fps |
| HDCVI Inputs | 3K (2880 × 1620) @ 25 / 20 fps, 5 MP (2592 × 1944) @ 20 fps, 4 MP (2560 × 1440) @ 25 / 30 fps, 1080p @ 25 / 30 fps, 720p @ 25 / 30 fps |
| Video Output Mode | HDMI / VGA simultaneous output |
| Audio Output | 1 ch, RCA (Linear, 1 KΩ) |
| Audio Inputs | 1 ch, RCA (2.0 Vp-p, 1 KΩ),   16 chs via coaxial cable |
| Two-Way Audio | 1 ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input) |
| **Recording** | |
| Video Compression | H.264 / H.264+ / H.265  / H.265 Pro / H.265 Pro+ |
| Encoding Resolutions | When 1080p Lite mode is not enabled:<br>3K lite / 5 MP lite / 4 MP lite / 1080p / 720p / VGA / WD1 / 4CIF / CIF<br>When 1080p Lite mode is enabled:<br>3K lite / 5 MP lite / 4 MP lite / 1080p lite / 720p lite / VGA / WD1 / 4CIF / CIF |

| | |
|---|---|
| Frame Rates | Main stream:<br><br>When 1080p Lite mode not enabled:<br><br> - For 3K stream access: 3K lite @ 12 fps; 4 MP lite @ 15 fps / 1080pLite @ 20 fps; 720p / WD1 / 4CIF / VGA / CIF @ 20 fps<br><br> - For 5 MP stream access: 5 MP lite @ 12 fps; 4 MP lite @ 15 fps / 1080p Lite @ 20 fps; 720p / WD1 / 4CIF / VGA / CIF @ 20 fps<br><br> - For 4 MP stream access: 4 MP lite @ 15 fps / 1080pLite @ 25 fps (P) / 30 fps (N); 720p / WD1 / 4CIF / VGA / CIF @ 25 fps (P) / 30 fps (N)<br><br> - For 1080p stream access: 1080p / 720p @ 15 fps; VGA / WD1 / 4CIF / CIF @ 25 fps (P) / 30 fps (N)<br><br> - For 720p stream access: 720p / VGA / WD1 / 4CIF / CIF @ 25 fps (P) / 30 fps (N)<br><br>When 1080p Lite mode enabled:<br><br> - 3K lite / 5 MP lite @ 12 fps; 4 MP lite @ 15 fps; 1080p lite / 720p lite / VGA / WD1 / 4CIF / CIF @ 25 fps (P) / 30 fps (N)<br><br>Sub-stream:<br><br> - WD1 / 4CIF @ 12 fps; CIF @ 25 fps (P) / 30 fps (N) |
| Video Bitrate | 32 Kbps to 6 Mbps |
| Dual-stream | Supports main stream or sub stream |
| Stream Type | Video, Video & Audio |
| Audio Compression | G.711u |
| Audio Bitrate | 64 Kbps |
| **Decoding** | |
| Decoding Capability | Up to 24 chs 1080p @ 30 fps |
| **Network** | |
| Total Bandwidth | 256 Mbps |
| Network Protocol | TCP/IP, PPPoE, DHCP, LTS Connect, DNS, DDNS, NTP, NFS, iSCSI, UPnP™, HTTPS, ONVIF, ISUP |
| Remote Connection | 128 |
| Network Interface | 1 x RJ45 10/100/1000 Mbps self-adaptive Ethernet interface |
| **Auxiliary Interface** | |
| SATA | 2 x SATA interface, up to 12 TB capacity for each disk |
| Serial Interface | RS-485 (half-duplex) |
| USB Interface | Front panel: 1 × USB 2.0;<br><br>Rear panel: 2 × USB 3.0 |
| Alarm In/Out | N/A (optional to support) |
| **General** | |
| Power Supply | 12 V DC, 3.3 A |
| Consumption | ≤ 40 W |
| Operating Temperature | 14° to 131° F (-10° to 55° C) |
| Operating Humidity | 10% to 90% |
| Dimensions (W × D × H) | 15.1 × 12.5 × 2.0 inch (384 × 317 × 52 mm) |
| Weight | ≤ 4.4 lb (2 kg) |

## Physical Interface

| No. | Description | No. | Description |
|---|---|---|---|
| 1 | Video in | 6 | LAN network interface and USB interface |
| 2 | Audio out | 7 | 12 V DC power input |
| 3 | HDMI interface | 8 | GND |
| 4 | VGA interface | 9 | Audio in |
| 5 | RS-485 interface | 10 | Video out |



## Dimensions



scale/1:1;Unit/mm