

# LTD8516M-ST

## TURBO SMART DVR

### Key Feature

- Deep learning-based motion detection 2.0 for all analog channels
- Deep learning-based perimeter protection
- H.265 Pro+/H.265 Pro/H.265/H.264+/H.264 video compression
- HDTV/AVHD/CVI/CVBS/IP video inputs
- Audio via coaxial cable
- Up to 32-ch IP camera inputs (up to 8 MP)
- Up to 10 TB capacity per HDD



### Compression and Recording

- H.265 Pro+ video compression improves encoding efficiency, and reduces data storage costs
- Recording at up to 8 MP resolution

### Storage and Playback

- 2 SATA interfaces
- Smart search for efficient playback
- Support the third party cloud storage

### Smart Function

- Deep learning-based motion detection, and perimeter protection (line crossing and intrusion detection)
- Support multiple VCA (Video Content Analytics) events for both analog and smart IP cameras

### Network & Ethernet Access

- Compatible with major Wi-Fi dongle products in the market
- LTS-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Output bandwidth limit configurable

## Specification

<b>Model</b>	<b>LTD8516M-ST</b>
<b>Motion Detection 2.0<sup>1</sup></b>	
<b>Human/Vehicle Analysis</b>	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; Quick search by object or event type is supported;
<b>Perimeter Protection<sup>1</sup></b>	
<b>Human/Vehicle Analysis</b>	Up to 4-ch
<b>Recording</b>	
<b>Video compression</b>	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264
<b>Encoding resolution</b>	Main stream: 8 MP@8 fps/5 MP@12 fps/3K@12 fps/4 MP@15 fps/3 MP@18 fps 1080p/720p/WD1/4CIF/VGA/CIF@25 fps (P)/30 fps (N)
	Sub-stream: WD1/4CIF/CIF@25 fps (P)/30 fps (N)
<b>Video bit rate</b>	32 Kbps to 10 Mbps
<b>Dual stream</b>	Support
<b>Stream type</b>	Video, Video & Audio
<b>Audio compression</b>	G.711u
<b>Audio bit rate</b>	64 Kbps
<b>Video and Audio</b>	
<b>IP video input<sup>2</sup></b>	8-ch (up to 24-ch) Enhanced IP mode on: 16-ch (up to 32-ch), each up to 4 Mbps
	Up to 8 MP resolution
	Support H.265+/H.265/H.264+/H.264 IP cameras
<b>Total bandwidth</b>	128Mbps
<b>Analog video input</b>	16-ch
	BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection
<b>HDTVI input</b>	8 MP@15 fps, 5 MP@20 fps, 3K@20 fps, 4 MP@30 fps, 4 MP@25 fps, 3 MP@18 fps, 1080p@30 fps, 1080p@25 fps, 720p@60 fps, 720p@50 fps, 720p@30 fps, 720p@25 fps
<b>AHD input</b>	5 MP@20 fps, 4 MP@25 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps
<b>HDCVI input</b>	5 MP@20 fps, 4 MP@25 fps, 4 MP@30 fps, 1080p@25 fps, 1080p@30 fps, 720p@25 fps, 720p@30 fps
<b>CVBS input</b>	PAL/NTSC
<b>CVBS output</b>	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480
<b>VGA output</b>	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
<b>HDMI output</b>	1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1280 × 1024/60Hz,

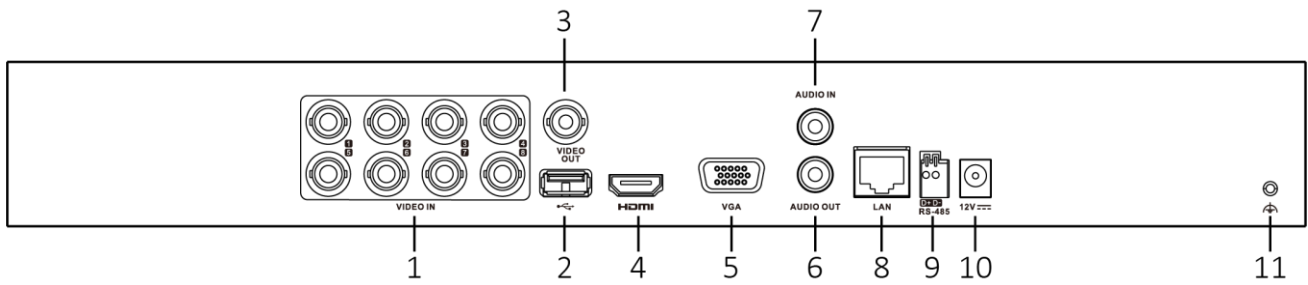
	1280 × 720/60Hz, 1024 × 768/60Hz
<b>Video output mode</b>	HDMI/VGA simultaneous output
<b>Audio input<sup>3</sup></b>	1-ch (up to 16-ch is optional), RCA (2.0 Vp-p, 1 KΩ) 16-ch via coaxial cable
<b>Audio output</b>	1-ch, RCA (Linear, 1 KΩ)
<b>Two-way audio</b>	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the audio input)
<b>Synchronous playback</b>	16-ch
<b>Network</b>	
<b>Remote connection</b>	128
<b>Network protocol</b>	TCP/IP, PPPoE, DHCP, LTS-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF
<b>Network interface</b>	1, RJ45 10/100/1000 Mbps self-adaptive Ethernet interface
<b>Wi-Fi</b>	Connectable to Wi-Fi network by Wi-Fi dongle through USB interface
<b>Auxiliary interface</b>	
<b>SATA</b>	2 SATA interfaces
<b>Capacity</b>	Up to 10 TB capacity for each disk
<b>Serial interface</b>	RS-485 (half-duplex)
<b>USB interface</b>	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 3.0
<b>Alarm in/out<sup>3</sup></b>	N/A (optional to support)
<b>General</b>	
<b>Power supply</b>	12 VDC, 5 A
<b>Consumption (without HDD)</b>	≤ 19 W
<b>Working temperature</b>	-10 °C to +55 °C (+14 °F to +131 °F)
<b>Working humidity</b>	10% to 90%
<b>Dimension (W × D × H)</b>	380 × 320 × 48 mm (15.0 × 12.6 × 1.9 inch)
<b>Weight (without HDD)</b>	≤ 2.1 kg (4.6 lb)

**Note:**

1: Motion detection 2.0 and perimeter protection cannot be enabled at the same time. Enable one function will make the other one unavailable.

2: Enhanced IP mode might be conflicted with smart events (motion detection 2.0 and perimeter protection) or other functions, please refer to the user manual for details.

3: The number of audio inputs and alarm in/out can be optional. The tag on the package will describe audio input and alarm in/out parameters. For example, “4A+8/4ALM” means your device has 4 audio inputs, 8 alarm inputs and 4 alarm outputs. If your device only has 1 audio input, the tag may not describe it.



## Physical Interface

No.	Description	No.	Description
1	VIDEO IN	7	AUDIO IN, RCA connector
2	USB interface	8	LAN network interface
3	VIDEO OUT	9	RS-485 serial interface
4	HDMI interface	10	12 VDC power input
5	VGA interface	11	GND
6	AUDIO OUT, RCA connector		

\*: The rear panel of LTD8516M-ST provides 16 video input interfaces.