

# TRM-1610M

16CH 12M H.265 Mobile NVR



## Key Features

- Up to 16CH 12megapixel supported
- H.265, H.264, MJPEG codec supported
- Max. 128Mbps recording
- Plug & play by 4 PoE / PoE+ ports
- M12 connector
- 2 SATA (Front-swap)
  - Max. 2TB (HDD, Non-RAID mode)
  - Max. 4TB (SSD, Non-RAID mode)
- RAID 1 support

## Related Products



SPN-10080PM



SSM  
Transportation

Display		
Network camera	Inputs	Max. 16CH
	Resolution	12MP ~ CIF
	Protocols	Wisenet, ONVIF
Decoding	Local Display	[Clone Display] HDMI : Upto 4K (3840 x 2160), VGA : Max. 1080p
	Resolution	12M (30fps), 8.3M(120fps), 1080p(480fps)
Performance		
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 128Mbps
	Resolution	12MP ~ CIF
	Mode	Normal, Schedule(Continuous/Event), Event (Pre/Post)
	Event Trigger	Alarm Input, Video Loss, Camera Event(Alarm, MD, Video Analytics, Defocus), G-Sensor(3 Axis)
	Event Action	e-Mail, PTZ Preset, Alarm Out, Buzzer, Monitor Out
Search & Play	Playback Bandwidth	Max. 32Mbps(16CH simultaneously)
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 16CH(Network) Max. 8CH(Local Monitor)
	Fisheye Dewarping	WEB / CMS
Storage	Supported HDD	Up to 4TB
	HDD Slot	SATA 2ea - Max. 2TB(HDD, Non-RAID Mode) - Max. 4TB(SSD, NON-RAID Mode)
	RAID	RAID-1
Backup	File backup	Exe(GUI), JPG/AVI(Network, excluding GPS information)
	Function	Multi channel(Upto 8CH) Play, Date-Time/Title/GPS display
Network		
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)
DDNS		Wisenet DDNS
Transmission Bandwidth		Max. 256Mbps
Audio	Input/Output	16 ch (network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users		Search (3), Live Unicast (10), Multicast (20)
Security		IP address filtering, User access Log, 802.1x, Encryption
Web viewer	Supported OS	Window 7, 8, 10, Mac OS X(10.8 or above)

	<b>Supported browser</b>	MS IE, Google Chrome, Mac Safari
<b>Viewer Software</b>		TMS, Webviewer
<b>Functions</b>		
<b>Camera Setup</b>	<b>Item</b>	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
<b>PTZ</b>	<b>Control</b>	Via GUI, Webviewer
<b>Smart phone</b>	<b>Support Model</b>	iOS, Android
	<b>Protocol Support</b>	RTP, RTSP, HTTP, CGI(SUNAPI)
	<b>Control</b>	Live(Multi-Profile Support), Playback
	<b>Max. Remote Users</b>	Search(3), Live Unicast(10)
<b>Interface</b>		
<b>HDMI</b>		1EA
<b>VGA</b>		1EA
<b>Audio</b>		Out(1EA, Line)
<b>Ethernet</b>		M12(10/100/1000BASE-T) x 2 M12(PoE) x 4
<b>Alarm</b>		In 6EA, Out 6EA
<b>USB</b>		3 EA (2 Front, 1 Rear)
<b>GPS</b>		4 Pin Micro Fit
<b>WiFi</b>		1 EA (RP-SMA, F)
<b>Serial(Protocols)</b>		1 RS-232C(Reserved)
<b>Power inlet</b>		6pin connector 1ea
<b>System</b>		
<b>System Control</b>		Mouse, Web, Controller
<b>Power Management</b>	<b>Shutdown Delay</b>	Max. 72Hrs (User selectable)
	<b>Startup Delay</b>	0(Default) sec ~ 10 Min (User selectable)
<b>Language</b>		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai
<b>Environmental</b>		
<b>Operating Temperature</b>		-25 to +55 °C(-13 to +131 °F) : HDD installed
<b>Operating Humidity</b>		20% ~ 85% RH
<b>Certification</b>		CE, FCC, cUL, KC UL-60950-1
<b>Electrical</b>		
<b>Power Input</b>		9 ~ 36V DC
<b>Power Consumption</b>		Max. 144W
<b>PoE Budget</b>		Max. 32W

Mechanical		
Color / Material	Black / Steel	
Dimension (WxHxD)	250 x 99 x 303 (9.84" x 3.89" x 11.92")	
Weight	7.35Kg	
Control Box		
Interface	Indicator	LED(Status indicator) : 6EA - Power(1), Alarm(1), Record(1), GPS(1), RAID(1), HDD Error(1)
	Emergency Button	1 EA
	Audio/Power Switch	Out(1EA, RCA, Line)
	Main I/O	1EA (DB9)
Mechanical	Color / Material	Black / Steel
	Dimension (WxHxD)	118 x 29.2 x 70mm (4.64" x 1.15" x 2.75")
	Weight	0.2Kg

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.

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UNIT : mm[inch]

