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

Accessories (Optional)



SPN-10080PM

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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)
	Supported browser	MS IE, Google Chrome, Mac Safari
Viewer Software		TMS, Webviewer

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Functions		
Camera Setup	Item	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, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ	Control	Via GUI, Webviewer
Smart phone	Support Model	iOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live(Multi-Profile Support), Playback
	Max. Remote Users	Search(3), Live Unicast(10)
Interface		
HDMI		1EA
VGA		1EA
Audio		Out(1EA, Line)
Ethernet		M12(10/100/1000BASE-T) x 2 M12(PoE) x 4
Alarm		In 6EA, Out 6EA
USB		3 EA (2 Front, 1 Rear)
GPS		4 Pin Micro Fit
WiFi		1 EA (RP-SMA, F)
Serial(Protocols)		1 RS-232C(Reserved)
Power inlet		6pin connector 1ea
System		
System Control		Mouse, Web, Controller
Power Management	Shutdown Delay	Max. 72Hrs (User selectable)
	Startup Delay	0(Default) sec ~ 10 Min (User selectable)
Language		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai
Environmental		
Operating Temperature		-25 to +55 °C(-13 to +131 °F) : HDD installed
Operating Humidity		20% ~ 85% RH
Certification		CE, FCC, cUL, KC UL-60950-1
Electrical		
Power Input		9 ~ 36V DC
Power Consumption		Max. 144W
PoE Budget		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

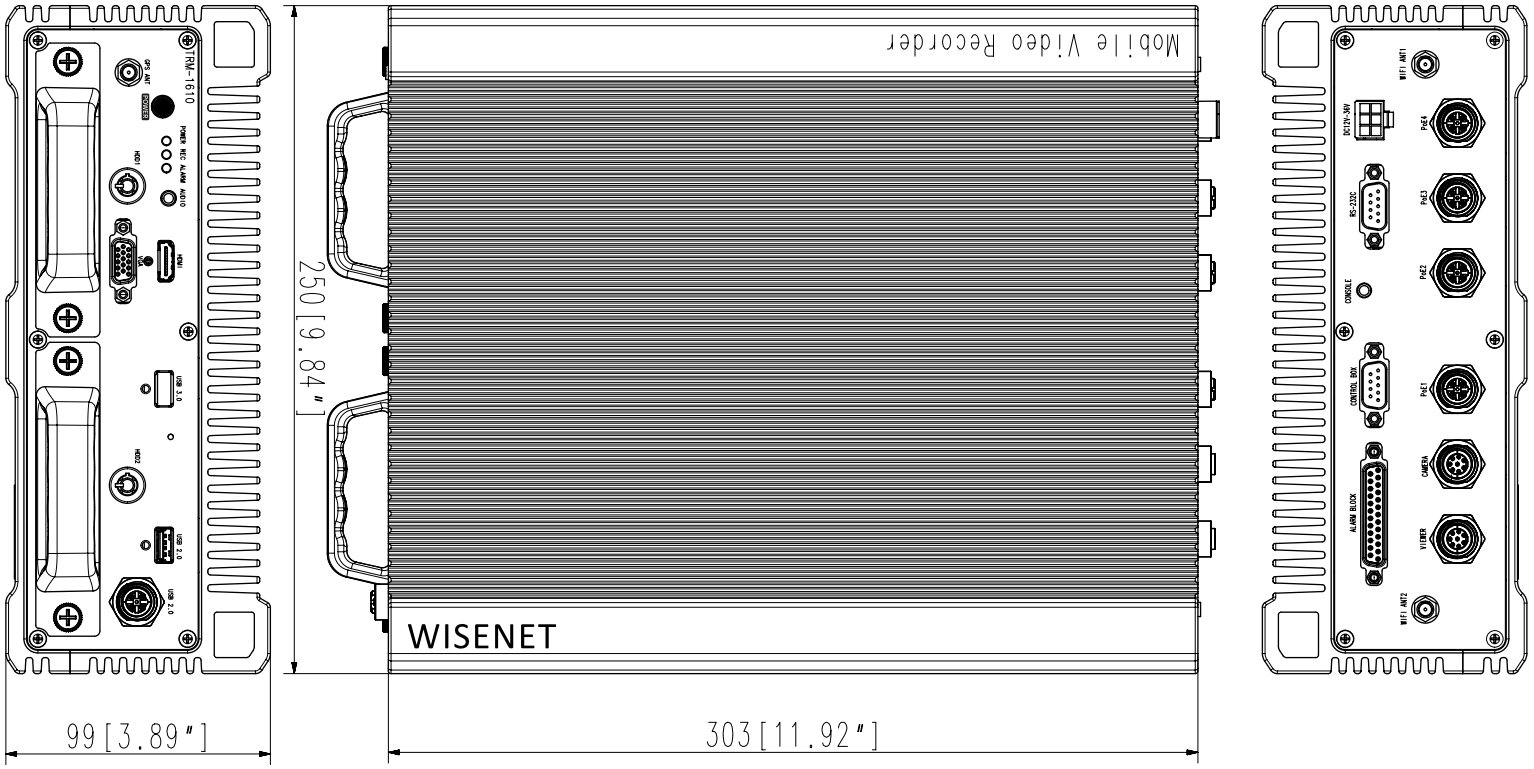
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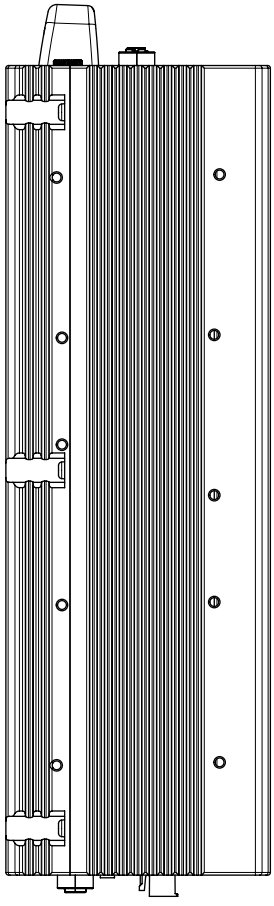
Control Box

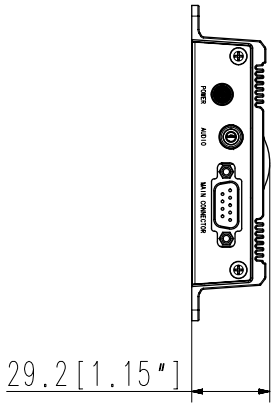
Interface	Indicator	LED(Status indicator) : 6EA - Power(1), Alarm(1), Record(1), GPS(1), RAID(1), HDD Error(1)
	Emergency Button	1 EA
	Audio/Power Switch	Out(1EA, RCA, Line)
	Main I/O	1EA (DB9)
Mechanical	Color / Material	Black / Steel
	Dimension (WxHxD)	118 x 29.2 x 70mm (4.64" x 1.15" x 2.75")
	Weight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

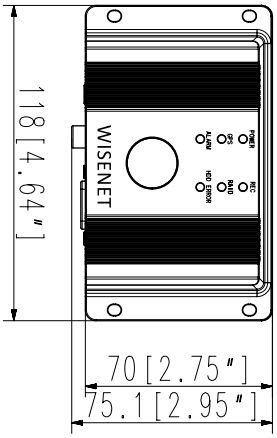
- The lastest product information / specification can be found at hanwha-security.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin , formerly known as Samsung Techwin.

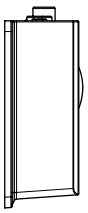
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UNIT : mm[inch]

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