WatchNET®
Integrated Digital Technologies

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE
eSATA PORT

EN RTHD
Network Video Recorder

Full HD 1080p

EN-04RTHD-1T, EN-04RTHD-2T, EN-08RTHD-1T, EN-08RTHD-2T, EN-16RTHD-1T, EN-16RTHD-2T

4/8/16 Channel 1080P Network Video Recorder

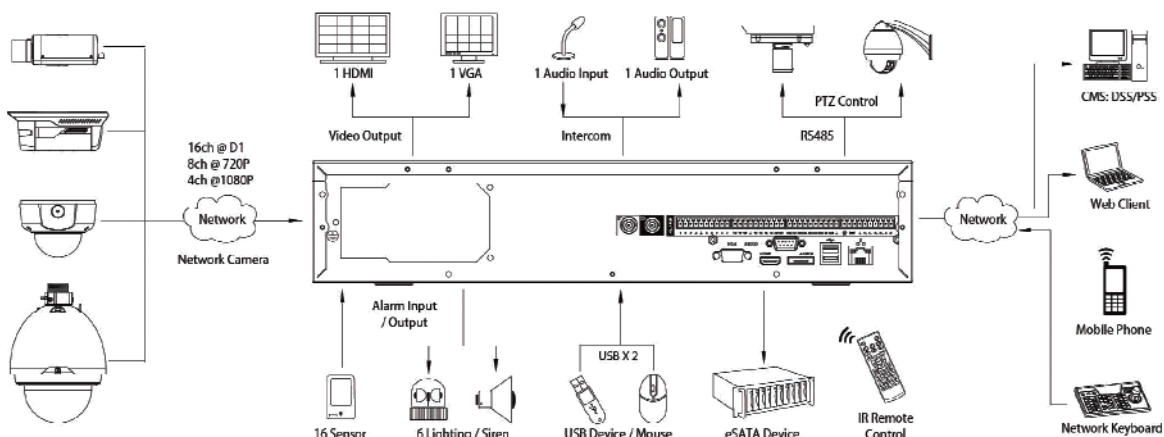## Features:

❖ WatchNET Standalone NVRs, powered by dual core processors utilize the most advanced H.264 technology in compressing 1080p video/audio signal through TCP/IP

❖ High internal storage capacity up to 24TB and E-SATA expansion of 12TB available, (total 38TB max)

❖ NVRs can record 4Ch 1080P, 8 Ch 720P or 16Ch D1 Video resolution

❖ All NVRs are equipped with Dual GIGABIT LAN for high speed bandwidth data transmission

❖ Powerful 64 channel multi site CMS software will support single or multi site installation for enterprise level security

❖ Dual Streaming technology supports low bandwidth for remote monitoring

❖ 3 NVR models available to suit any IP CCTV installation

❖ All channel simultaneous realtime playback, GRID search interface & smart search

❖ Supports numerous network cameras brands such as: Arecont Vision, AXIS, MPIX, Canon, Dynacolor, Panasonic, SAMSUNG, SANYO, SONY, WatchNET and ONVIF*

❖ Support remote network camera encoding, programming & image adjust

❖ IP Search feature automatically discovers network cameras

❖ Support 8 SATA HDDs up to 24TB, 1 eSATA up to 12TB, 2 USB 2.0

❖ Built-in web server, CMS(DSS/PSS) & DMSS

❖ Automatic port forwarding (UPNP) for routers

❖ 4, 8, 16 channel simultaneous real time playback

❖ Video Output - 1X Composite video, X1 VGA, X1 HDMI, X1 Matrix

❖ Alarm Triggering: OSD, siren, PTZ preset, e-mail, FTP upload

Connection diagram

www.watchnetdvr.com

*Selected models supported

MAC OS Compatible

Division of:
Videon
Integrated Digital Technologies Ltd.

Model		EN-04RTHD-1T, EN-04RTHD-2T	EN-08RTHD-1T, EN-08RTHD-2T	EN-16RTHD-1T, EN-16RTHD-2T
System	Main Processor	High performance Dual-core embedded microprocessor		
	Operating System	Embedded LINUX		
	System Resources	Pentaplex function: live, recording, playback, backup & remote access		
	Control Mode	Front panel, USB mouse, IR remote control, Keyboard, Network		
Video & Audio	IP Camera Input	16 channel@D1 / 8 channel@720P / 4 channel@1080P		
	IP Camera Supported List	Arecont Vision, AXIS, Canon, Dynacolor, Dahua, Panasonic, SAMSUNG, SANYO, SONY, ONVIF		
	Standard	NTSC(525Line, 60f/s), PAL(625Line, 50f/s)		
	Video Output	1 HDMI(video & audio), 1 VGA		
	Voice Intercom	1 channel input, BNC(200-2800mV, 30KΩ), 1 channel output, BNC(200-3000mV, 5KΩ)		
Display	Display Split	1/4/8/9/16		
	Resolution	1920×1080, 1280×1024, 1280×720, 1024×768		
	Tour Display	Support		
	Privacy Masking	4 self-defined four-sided zones for privacy masking for each camera		
	OSD	Camera title, time, video loss, camera lock, motion detection, recording		
Recording	Compression	H.264 / MPEG4		
	Recording Resolution	1080P(1920×1080) / 720P(1280×720) / D1 (704×576/704×480)		
	Recording Speed	Up to 400/480fps@D1 Up to 200/240fps@720P Up to 100/120fps@1080P		
	Recording Bit Rate	Up to 32Mbps		
	Recording Quality	CBR, VBR(1~6 level, level 6 is the best)		
	Recording Mode	Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss), Alarm), Stop		
	Recording Priority	Manual >Alarm >MD >Regular		
	Recording Interval	1~120 min (default: 60 min)		
Video Detection & Alarm	Trigger Events	Recording, PTZ movement, Tour, Alarm, Email, FTP, Buzzer & Screen tips		
	Motion Detection	Zones: 396 (22×18), Sensitivity: 1~6 (level 6 is highest)		
	Video Loss & Camera Blank	Support		
	Alarm Input	16 channel		
	Relay Output	6 channel		
Playback & Backup	Playback Channel	1/2/4/All		
	Search Mode	Time/Date, Alarm, Motion Detection & Exact search (accurate to second), Smart Search		
	Playback Functions	Play, Pause, Stop, Rewind, Fast play, Slow play, Next file, Previous file, Next camera, Previous camera, Full screen, Repeat, Shuffle, Backup selection, Digital zoom		
	Backup Mode	Flash drive/ USB HDD/ USB CD&DVD-RW / eSATA Device / Built-in SATA CD/DVD-RW burner / Network download		
Network	Ethernet	Dual RJ-45 Ports (10/100M/1000M)		
	Network Functions	HTTP, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search		
	Remote Operation	Monitor, PTZ control, Playback, System setting, File download, Log information		
	Max Remote Users	20 Users simultaneously		
Hard Disk	Hard Disk	8 SATA ports, 8 HDDs or 6 HDDs + 1 CD/DVD-RW, Up to 24TB		
	Space Occupation	Max 3.6GB/H per channel		
	HDD Management	HDD Group, HDD hibernation technology, HDD faulty alarm & Raid(Redundancy)		
Auxiliary Interface	USB Interface	3 ports, For mouse control & backup		
	eSATA	1 eSATA port, 4 SATA expansion support, 4 SATA bay (up to 12 TB)		
	RS232	Keyboard, PC communication		
	RS485	PTZ control		
Environmental	Power Supply	AC 100~240 V, 50/60 Hz		
	Power Consumption	20W		
	Working Environment	-10ºC ~ +55ºC / 10 ~ 90%RH / 86 ~ 106kpa		
	Dimension (W×D×H)	2U, 440mm×460mm×89mm / 17.3″×18″×3.5″		
	Weight	6.5KG / 14.3Lb (without HDD)		