

World First

UNIVERSAL 4K DVR Support All Video Format All in one, At one swoop!



UNIVERSAL 4K DVR
UHD1604F-U **NEW**

Support All Video Format
All in One, Only One!

Support all video format | 16ch(2M), 8ch(4M), 4ch(4K UHD) | Support TDM video | 4K UHD(HDMI) output | 6 HDD(SATA)
Storage capacity 128TB(eSATA), 256TB(NS04R) | RTSP | Service channel, Remote DVR | VMS(Control Center), Mobile App, HTML5

UNIV.
FORMAT

UNIVERSAL Support all kinds of existing video formats

From SD to UHD, including IPC, the Universal 4K DVR support all kinds of video formats
The Universal 4K DVR is the optimum solution for any site, any camera

Video Format		Analog HD DVR	NVR	Digital HD DVR	UNIVERSAL 4K DVR	
Analog	SD	Analog	Analog Unsupported	Analog / IP Unsupported	Analog SD	
	HD				TVI	Analog HD
	AHD				IP	
IP	Onvif				Digital HD	
Digital	HD	Digital / IP Unsupported	Digital Unsupported	Digital UHD, TDM Unsupported	Digital HD	
					EX-SDI(V1.0, V2.0)	Digital UHD
	UHD				EX-SDI(V2.1)	Digital UHD
	TDM	TDM(EX-SDI)			TDM	

Support All Video Format

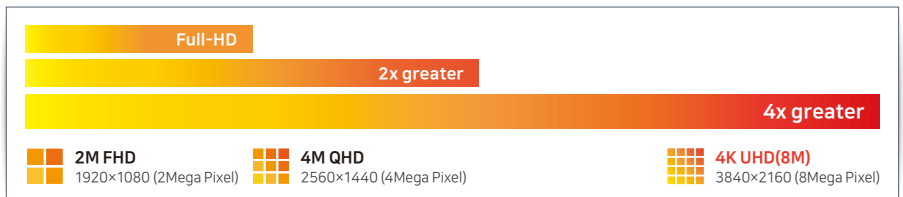
Support Analog 4M(QHD), Digital 4K(UHD)

All in one, At one swoop!

4K
UHD

4K UHD More Vivid & Sharper with Ultra High Definition

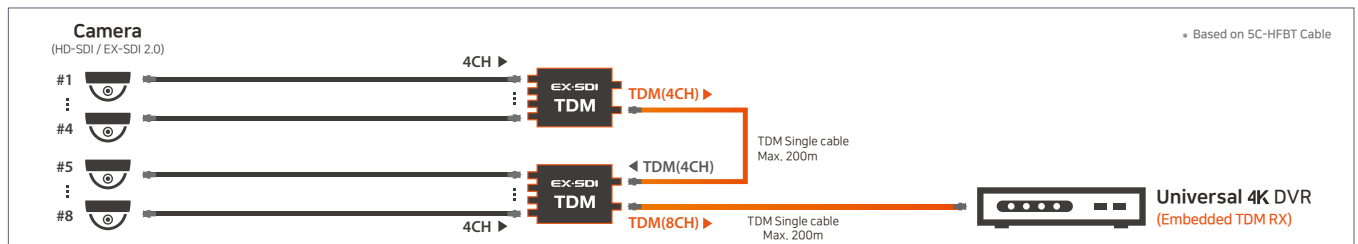
4K UHD is perfect for large area coverage and identifying objects at great distances
DVR supports 4M QHD (2x greater than Full-HD) and 4K UHD (4x greater than Full-HD) recording



TDM
RX

TDM (Time Division Multiplex) Transmit 8ch through single cable

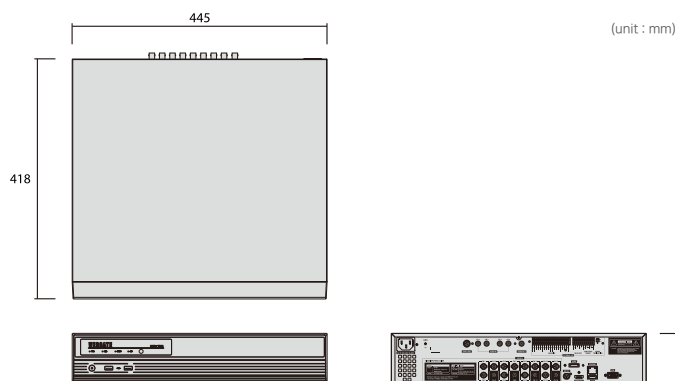
Embedded TDM RX(EX-SDI) receives max 8ch video with single cable



UNIVERSAL 4K DVR

Universal | Analog | Digital | IP | 4M QHD | 4K UHD | TDM RX

UHD1604F-U



VIDEO INPUT		
Video input Format	BNC	HD-SDI, EX-SDI(V1.0, V2.0, V2.1), TDM AHD, TVI, CVBS(960H, SD)
	IP(Ethernet)	Onvif, WESP
Resolution / Frame Rate	HD-SDI	1920×1080@30fps
	EX-SDI 1.0	2560×1440@30fps
	EX-SDI 2.0	3840×2160@30fps
	EX-SDI 2.1	
	EX-SDI TDM	1920×1080@30fps
AHD	1920×1080@30fps	2560×1440@30fps
	1920×1080@30fps	
TVI	1920×1080@30fps	
CVBS(960H)	960×480@60i, 720×480@60i	960×576@50i, 720×576@50i
Connectors	16ch, 75Ω BNC connector	
CoC	Control over Coax@AHD(2M, 4M), TVI(2M)	

VIDEO OUTPUT		
Video output	Resolution	HDMI: 3840×2160, 1920×1080 VGA : 1920×1080, 1280×1024, 1024×768, 800×600 BNC(EX-SDI) : 1920×1080 BNC(CVBS) : 720×480, 720×576
	Mode	HDMI/VGA Main + CVBS Spot HDMI/SDI Main + CVBS Spot HDMI Main + VGA Spot + CVBS Spot HDMI Main + SDI Spot + CVBS Spot
	BNC(CVBS)	1, 4, 9, 16 split-screen, Switching
	BNC(SDI)	Main : Same as HDMI output Spot : 1, 4, 9, 16 split-screen, Switching Format : HD-SDI, EX-SDI, EX-SDI 2.0

RECORDING	
Compression	H.264 / JPEG
Resolution	3840×2160, 2560×1440, 1920×1080, 1280×720, 960×480
Rate	Max. 480fps@1920×1080, Max. 240fps@2560×1440, Max. 120fps@3840×2160
Quality	10 levels upto 8Mbps@2M, 12Mbps@4M, 16Mbps@8M(4K)
Mode	Normal/EventRecord, Schedule/Event Record, Emergency Record
Schedule	24hrs / 7days

PLAYBACK	
Mode	Instant Playback / Search
Speed	Max. 480fps@1920×1080 Max. 240fps@2560×1440 Max. 120fps@3840×2160
Search type	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark
Block playback	24hours ~ 99days

EVENT & ALARM	
Event source	MD(Motion Detection), Sensor, Text, Video Loss
Event check Schedule	24hrs / 7days
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push
MD area	15×10
Text input	POS/ATM support, AVE VSI Pro/Hydra support

SYSTEM ALARM	
Alarm source	HDD fail, HDD almost full, Password fail, WRS fail, Record Fail
Alarm action	Warning message, Buzzer, E-mail, Relay, Mobile Alarm Push

AUDIO	
Input / Output	4 RCA input / HDMI & RCA output
Compression	ADPCM(32Kbps, 8KHz, 16bit sampling)
Direction	Both

PTZ	
Protocols	HIK-C, AHD, C1080(D1080), C1080PT-Z20, Pelco-D, Pelco-P, Samsung, Panasonic and others

NETWORK	
Interface	1 Gigabit Ethernet (10/100/1000Mbps)
Type	StaticIP, DynamicIP, xDSL
DDNS	WNS, DynDNS, NoIP, WRS
Bandwidth limit	0.01 ~ 100Mbps, unlimited
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
RTSP	Supported
UPnP	UPnP auto port forwarding
Streaming	H.264 stream, High resolution
	1 additional H.264 stream, Normal resolution
Service Streaming	1 JPEG stream, Normal resolution
	Service Channel or Remote DVR

SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power, Copy, Network MIC
IP filtering	Supported

STORAGE & BACKUP	
Storage devices	6 internal SATA HDDs, 1 external eSATA Interface, Gigabit network for NS04R
RAID Level	External storage including NS04R(Level 1/5/10)
File system	Proprietary file system, Data-loss protection against power-failure
Capacity	Max. 128TB with eSATA, Max. 256TB with cascaded NS04R 8TB HDD Supported
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	3 USB 2.0 drive (2 front, 1 rear)
S.M.A.R.T.	Temperature and Health checking

SERIAL & I/O	
Serial port	2 RS-485
Sensor input	16 Dry-contacts
Relay output	2Relays

CONTROLLER	
Device	IR remote controller, Joystick Keyboard, Mouse

SOFTWARE	
WebViewer	Plug-infree HTML5 WebViewerfor Chrome, Safari, Mac OS X ActiveX WebViewer for IE
Mobile App	Monitoring / Playback / Alarm Push / PTZ/ Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024units
SDK	ActiveX(COM) SDK

ENVIRONMENTAL & PHYSICAL	
Dimension	445(W)×418(D)×88(H) mm
Weight	6 Kg (No HDD)
Operating Temperature	5°C~45°C (41°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	AC free volt (100~240VAC), 50/60Hz
Power Consumption	Max. 46W, Typical 31W(1 HDD)
Approval	KC, FCC, CE, RoHS

* Specifications are subject to change without notice for product improvement.

