



# UHD1604F-U



## FEATURES

### Universal 2MP DVR

- Max. 16CH(2MP), 8CH(4MP), 4CH(8MP/4K UHD)
- Digital: HD-SDI, EX-SDI(1.0, 2.0, 2.1), TDM
- Analog: AHD (4MP), TVI, CVBS(960H, SD)
- IP: Onvif, WESP
- Embedded TDM RX, 4K UHD(HDMI) output
- 6 SATA Interfaces
- External Storage Capacity: 128TB(eSATA), 256TB(NS04R/UHS04R)
- VMS(Control Center), WebEye, HTML5 WebViewer

Specifications	
Model Number	UHD1604F-U
Video Input Format	BNC: HD-SDI, EX-SDI(1.0 / 2.0 / 2.1), EX-SDI TDM, AHD, TVI, CVBS(960H, SD) IP: WESP, Onvif Profile S, H.264
Resolution / Frame Rate	HD-SDI/EX-SDI(1.0, 2.0, 2.1): 1920x1080@30fps, 1920x1080@25fps / 2560x1440@30fps, 2560x1440@25fps / 3840x2160@30fps, 3840x2160@25fps EX-SDI TDM: 1920x1080@30fps, 1920x1080@25fps AHD: 1920x1080@30fps, 1920x1080@25fps / 2560x1440@30fps, 2560x1440@25fps TVI: 1920x1080@30fps, 1920x1080@25fps CVBS(960H): 960x480@60i, 720x480@60i, 960x576@50i, 720x576@50i IP: 1st Stream - 1280x720~3840x2160 / 2nd Stream MAX 1280x720
Connectors	16ch, 75Ω BNC connector
CoC	Control over Coax@AHD(2M, 4M), TVI(2M)

Specifications	
Video Output Resolution	HDMI : 3840×2160, 1920×1080 VGA : 1920×1080, 1280×1024, 1024×768, 800×600 BNC(SDI) : 1920×1080 BNC(CVBS) : 720×480, 720×576
Video Output 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) Video Output	1, 4, 9, 16 split-screen, Switching
BNC(SDI) Video Output	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
Recording Resolution	3840×2160, 2560×1440, 1920×1080, 1280×720, 960×480
Record Rate	Max. 480fps@1920×1080, Max. 240fps@2560×1440, Max. 120fps@3840×2160
Record Quality	10 levels up to 8Mbps@2M, 12Mbps@4M, 16Mbps@8M(4K)
Record Mode	Normal/Event Record, Schedule/Event Record, Emergency Record
Playback Speed	Max. 480fps@1920×1080 Max. 240fps@2560×1440 Max. 120fps@3840×2160
Search Types	Date/Time, Calendar/Time-line, Event, Thumbnail(Interval/Motion), Text, Bookmark
Block Playback	1day ~ 99days
Event Source	Motion detection, Sensor input, Video Loss, Text input, System
Event action	Relay, Buzzer, E-mail, FTP, Video pop-up, Camera Preset, Mobile Alarm Push, System alarm
Text input	POS/ATM support, AVE VSI Pro/Hydra support
System Alarm Event Source	HDD fail. HDD almost full, Password fail, WRS/DDNS fail, Recording Fail
System Alarm Event Action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push
Audio I/O	4 RCA input / HDMI & RCA output
Audio Compression	G.711
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) Static IP, Dynamic IP, xDSL WNS, DynDNS, NoIP, WRS
NTP	Server / Client / Both
Users	10 Monitoring, 4 Playback
UPnP and RTSP Support	Yes
Streaming	H.264 stream, High resolution 1 additional H.264 stream, Normal resolution 1 JPEG stream, Normal resolution
Storage Devices	6 internal SATA HDDs, 1 external eSATA Interface, Gigabit network for NS04R/UHS04R
RAID Level	External storage including NS04R/UHS04R (Level 1/5/10)
File system	High-performance proprietary file system Data-loss protection against power interrupt Safe HDD head parking in power failure
Capacity	Max. 128TB with eSATA, Max. 256TB with cascaded NS04R/UHS04R 10TB HDD Supported

Specifications	
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	3 USB 2.0 drive (2 front, 1 rear) FAT32(Max 32GB), NTFS
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
Serial port	2 RS-485
Sensor input	16 Dry-contacts + Sensor of IP Camera
Relay output	2 Relays
Controller Device	IR remote controller, Joystick Keyboard(option), Mouse
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
Mobile viewer	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 units
SDK	ActiveX(COM) SDK
Dimensions	445×418×88 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
IPFR	Supporting IPFR (Intelligent Power Failure Recovery)
Power consumption	Max. 33W, Typical 26W(No HDD)
Approval	KC, FCC, CE, RoHS