



DVR/NVR



CAMERA



ACCESSORY



SOFTWARE

Network Video Recorder

KWIN-8864



NVR | 64CH | 4K UHD | HDD 8bay

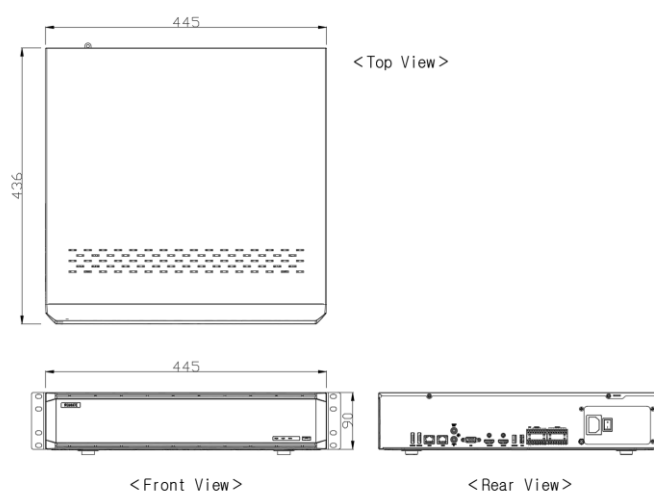
Key Features

(* Marks- Scheduled to be supported)

- 64ch real-time recording & playback simultaneously
- 400Mbps recording bandwidth
- Max. 4K UHD input / output(HDMI)
- Max. 3 monitor output (Duplicate:HDMI1,VGA /Spot:HDMI2)
- Support ONVIF Profile S
- Support H.264, H.265 Dual Codec
- Support 20TB HDD, 8 internal SATA HDDs, 2 eSATA
- Max. 128TB(SATA), 256TB(UHS04R) recording capacity
- Support Camera auto detection and simple registration (Add Camera Wizard)
- Integrated with specialized solutions (Alarm bell, Home Network, etc.)
- Support wire-wireless USB keyboard connection
- Support Remote DVR (Remote DVR/NVR control)
- Industry-first HTML5 Web viewer

Dimension

(445×436×90mm)



Tech Note

Onvif

- Support the latest version of standard ONVIF protocol, which makes it compatible with 3rd party's software and system.
- Complete compatibility test with more than 100 models from 40 manufacturers around the world. Support free integration for new models.

4K UHD

- Support 4M QHD (2x greater than Full-HD) and 4KUHD (4x greater than Full-HD) recording.
- Provide the best resolution image through 4K UHD(HDMI) output to 4K monitor.

Support HDD 8bay

- Max. 8 internal SATA HDDs provide sufficient storage capacity and efficient data management.
- Support external storage (UHS04R) to expand storage capacity up to 256TB and to configure RAID function.

Remote DVR Full control of remote DVR/NVR -Patent Application

- Share DVR/NVR's main output on PC and real-time remote control from DVR/NVR's OSD menu on PC.



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VIDEO INPUT		
Video input	Channel	64CH IP video input
	Protocol	WESP, Onvif Profile S
	Format	H.264, H.265
	Resolution	1st stream: 1280x720~3840x2160 2nd stream: 352x240~720X576
	Performance	400Mbps
	Stream	RTSP over TCP, RTSP over HTTP
	PoE	Not supported
	PoE Mode	Not supported
VIDEO OUTPUT		
Video output	Port	2HDMI, 1VGA
	Format	HDMI1: 4K/1080p / HDMI2 : 1080p VGA : 1920×1080, 1280×1024, 1024×768
	Modes	Duplicate : HDMI, VGA main Spot : HDMI2 Spot
	Display	Main : 1, 2, 4, 6, 9, 10, 13, 16, 25, 36, 64 split-screen Spot* : 1, 4, 9, 16 split-screen
RECORDING		
Compression	H.264 / H.265	
Resolution	1st stream: 1280x720~3840x2160 2nd stream: 352x240~720X576	
Rate	Total 1920 fps, Max 30fps/ch @ 4K	
Bitrate	1st stream : Max. 8Mbps 2nd stream : Max. 2Mbps	
Mode	Manual&Event / Schedule&Event / Emergency	
Schedule	24hrs / 7days	
PLAYBACK		
Mode	Instant Playback / Search	
Speed	1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x	
Search type	Time/Calendar, Event, Thumbnail(Time, Motion), Text	
Block playback	1day ~ 365days	
EVENT & ALARM		
Event source	Motion detection, Sensor input, Video Loss, Text input, AI, Flame, Thermal, System	
Event check Schedule	24hrs / 7days	
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, System Start, Recording Fail, NTP Sync Fail	
Event action	Pop-up Message, Buzzer, E-mail, Relay, Mobile Alarm Push	
AUDIO		
Input/output	1 RCA (1 Vpp) input / HDMI & RCA output	
Compression	G.711u	
Direction	Both	
PTZ		
Protocols	IP Camera with Onvif protocol & WESP protocol	

NETWORK	
Interface	2 Gigabit Ethernet RJ-45 port (10/100/1000Mbps)
Protocol	WESP, HTTP, RTSP/RTP, (Onvif), UPnP, RADIUS, TCP/IP, UDP, ARP, ICMP, DHCP, PPPoE, SMTP, SNMP, SNTP, TLS
DDNS	WNS, DynDNS, NoIP, WRS
TX Performance	1~128Mbps
NTP	Mode : Server / Client / Both Server : Public / Private
Users	Total 10 Users (Monitor + Playback) Playback 3 Users
TLS	Supported
Service Streaming	Remote DVR
SECURITY	
User level	1 admin, 10 users
User privilege	Menu, PTZ, Relay, Playback, Power off, Copy, Network MIC, Camera Setup
IP filtering	10 IP address ranges
STORAGE & BACKUP	
Storage devices	8 SATA, 2 eSATA HDDs
RAID Level	External storage including network storage UHS04R (Level 1/5/10)
File system	High-performance proprietary file system Data-loss protection against power interrupt
Capacity	Max. 128TB with eSATA, Max. 256TB with cascaded UHS04R 20TB HDD Supported per SATA Port (Recommended to use more than 3TB capacity HDDs)
Backup type	Multi-channel exe file, Single channel avi file, JPEG(Capture)
Backup device	2 USB 2.0 drive (1 front, 1 rear), 1 USB 3.0 drive (rear) FAT32(Max 32GB), NTFS
S.M.A.R.T.	Health checking and alarm, Reallocation sector monitoring and alarm
SERIAL & I/O	
Serial port	1 RS-485 K/B, 1 RS-485 P/Z(*)
Sensor input	16 Dry-contacts + sensor of IP camera
Relay output	Software-controlled 4 relay output Max 250VAC / 3A, 30VDC / 3A
CONTROLLER	
Device	Joystick Keyboard(option), Mouse
SOFTWARE	
HTML5 Webviewer	Monitoring / Event / PTZ / Playback for browser supporting HTML5
ActiveX Webviewer	Monitoring / Event / PTZ / Playback for IE
Smart Phone App.	Monitoring / Playback / Alarm Push / PTZ / Audio / Log View with iPhone & Android
CMS	Control Center, Max. 1024 Units
SDK	ActiveX(COM) SDK
ENVIRONMENTAL & PHYSICAL	
Dimension	445(W)×436(D)×90(H)mm
Weight	5.7kg (No HDD)
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)
Operating Humidity	80% below, free of condensation
Power	AC 100~240V, 50/60Hz
IPFR	Not supported
Power Consumption	Max. 30W without Storage (*)
Approval	KC, FCC, CE

QA1.28

(*) Marks- Scheduled to be supported)

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