FWR224-01N

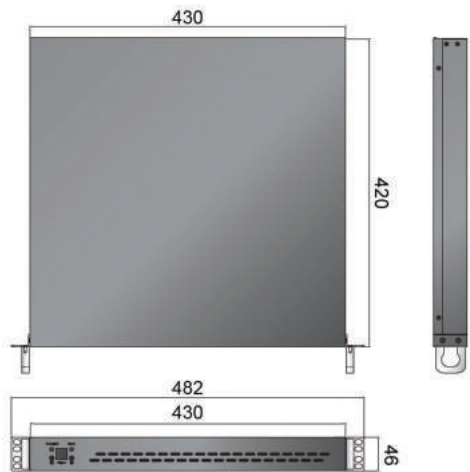## 32CH. Rack-mountable NVR

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FWR224-01N
32CH. Rack-mountable NVR

FWR224-01N is a 19" rack type stand-alone Network Video Recorder. Supports H.265, H.264 and MJPEG streaming from FlexWATCH cameras and others supporting ONVIF. Up to 32ch IP cameras can be registered with 480fps@2M full HD(480fps@D1) live view from video output(HDMI, VGA) and Max. 960fps@2M full HD for real-time recording up to 32 IP cameras with 4 internal SATA connection up to 32TB (4x8TB) is supported.

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430
420
482
430
46
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FWR224-01N
32CH. Rack-mountable NVR

• Key Features

- 32Ch. Streaming

- Real time live viewing
  Max. 480fps @ FULL-HD(1920x1080), 480fps @ D1

- Real time recording
  Max. 960fps @ FULL-HD(1920x1080), Support 4K

- Supports H.265 / H.264 / MJPEG codec

- Video, Audio, PTZ, DI/DO control

- 1 HDMI / 1 VGA output for local display

- 3 USB port for mouse / keyboard etc
  (USB 2.0 x 2 / USB 3.0 x 1)

- 32TB (Max. 8TB x 4HDD) support

- Support 4K (8MP) Recording and Playback

• Tech Notes

Relay server: Re-streaming
NVR works as a restreaming server that registers FlexWATCH IP cameras and other 3rd party ONVIF IP Cameras and re-transmits the Video streams up to 4 concurrent streams to other various client software or NVRs.

I Frame Recording
It records only "I picture" at each GOP and discards "B picture" and "P picture". "I frame recording mode" at IP surveillance system is an alternative method to support the pre-post alarm recording function of DVR system.

FWR224-01N

▶**Technical Specifications**

NVR

Max. Channel	32Ch. IP Cameras

Video

Max. Streaming Rate	Max. 480fps @ Full-HD Max. 480fps @ D1
Supported Codec	H.265, H.264, MJPEG
Streaming Function	Retransmission (Proxy)
PTZ	Remote PTZ control

Recording

Max. Recording Rate	Max. 960fps @ Full-HD or 4K
Stream	Video, Audio, Data
HDD Support	Supports 4 SATA HDDs up to 8TB / each (Max.32TB)
RAID	-
Condition	Always, Motion, Event, Schedule

Interface

Video Out	1 HDMI, 1 VGA
Audio In/Out	2 way (1 in, 1 out)
Audio Compression	8bit G.711, 8Khz, 8Kbyte/sec
Alarm In/Out	16 DI, 4 DO (Direct On/Off)
Serial Port	RS-232C
Peripherals	USB2.0 x 2 + USB3.0 x 1

Network

WAN (Ethernet)	10/100/1000-base-T Ethernet (auto sensing)
LAN (Ethernet)	10/100/1000-base-T Ethernet (auto sensing)
Protocol	HTTP, TCP/IP, UDP, FTP, Telnet, RARP, DHCP, NTP, SMTP client, uPNP And etc.
Viewer	Browsers (Microsoft Internet Explorer), CMS, VLC
Player	Browsers (Microsoft Internet Explorer), CMS, VLC
Dynamic IP	DDNS (www.ipcctvdns.com)
Smart Solution	FlexWATCH Mobile (iOS, Andriod), IPCAMVISION (iOS, Android)
Security	IP Filtering, Encrypted & Basic Authentication, HTTPS, Management White List

Hardware

System	32bit Embedded Linux, ARM Cortex A17 quad-core@maximum 1.4 GHz, SDRAM 256Mbyte, NAND Flash 128MBytes
Approvals	KC, FCC, CE, RoHS, UL
Working Condition	0℃ ~ +50℃ (32℉ ~ 122℉), 10% ~ 80% RH
Power Supply	INPUT : 100-240VAC, 50~60Hz OUTPUT : 12VDC @ 8.5A
Power Consumption	Max. 72W
Dimension	430(W) x 420(D) x 45(H) mm
Weight	About 8,500g without HDD

Built-in Software Features

Mirroring Function
By using the mirroring function, FlexWATCH NVR can monitor and playback other adjacent FlexWATCH NVRs and cameras (SD) Each NVR has an ability to control all video/audio and command for PTZ control with low latency.

Audio Broadcasting
By Audio broadcasting function, FlexWATCH NVR can broadcast audio with the mic. on FlexWATCH NVR to multiple speakers at FlexWATCH IP cameras connected in the network. It can simultaneously broadcast the audio up to 32ch of IP cameras by any GROUPs at the same time.