

Video Wall Decoder



With the high-performance SOC decoding chip and stable and reliable Linux OS, NYX Decoder can be excellently served to the high-definition surveillance system. It not only supports multi-channel standard-definition and high-definition network videos decoded on video wall independently, but also it can be managed in an integrated way by video surveillance management platform. Moreover, it also has lots of advanced and convenient functions, such as H.264/H.265, device superior-subordinate management, window opening, roaming and so on.

Therefore, this decoder can be widely used in banks, schools, intelligent buildings, transportation, environmental protection, Supermarkets, service stations, housing estates, factories, etc.

Features

Decoding & Display

- HDMI 1 output Supports 8k, HDMI 2 supports 4k
- HDMI 3 supports 4K, HDMI 4 supports 2k (FHD)
- Supports PS, RTP, TS, ES encapsulation formats (in platform running mode)
- Supports NTSC & PAL video formats
- H.265 HP/MP/BP and H.264 HP/MP/BP
- 4CH 16MP@30fps or 8CH 8MP@30fps or 12 CH 5MP@30fps or 20CH 3MP@30fps or 32CH 1080P@30fps
- G.711A/G.711U audio compression

Stream Mode

- A&V streams can be acquired actively and passively
- A&V streams can be directly acquired from NYX IPC/DVR/NVR by SDK private protocol
- A&V streams can be acquired from NVMS platform or encoding devices by RTSP/ RTP protocol
- A&V streams can be acquired from IPC by ONVIF protocol Device Management
- Supports multi-level device control (master-slave mode)
- A maximum of 64 decoders can be managed

Decoding Control

- Supports live view and playback decoding
- 1/4/9/16/25/36/64 screen display mode
- Window opening, roaming
- View cameras or camera groups in sequence

Access

- Provides HTTP API protocol for the third-party
- Supports platform running mode and device running mode

Operation and Maintenance

- Supports device search
- Supports WEB client access, configuration and management
- Supports time zone, time and date settings
- Supports data port and HTTP port settings
- Supports data backup and restoration
- Supports remote reboot and one-button reset
- Supports online and U-disk upgrade
- Supports dual gigabit Ethernet ports, load balancing

Specifications

System	CPU	RK3588
	OS	Embedded Linux
	Memory	LPDDR4 8GB; 16 GB EMMC
Video	HDMI Output	HDMI1: 7680×4320, 3840×2160, 1920×1080, 1280×1024 (when HDMI1 outputs 8K resolution, HDMI2 is unavailable)
		HDMI2: 3840×2160, 1920×1080 , 1280×1024
		HDMI3: 3840×2160, 1920×1080, 1280×1024
		HDMI4: 1920×1080, 1280×1024
	VGA Output	VGA×1: 1920×1080, 1280×1024 (VGA can output the same video source with HDMI 1/2/3)
	Multi-screen Display	Output 1/2/3/4: 1/4/9/16/25/36/64
	HDMI Input	1CH HDMI input: supports 3840×2160, 1920×1080, 1600×1200, 1680×1050, 1440×900, 1280×1024, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
	Video Compression	H.264/H.265/MJPEG
Audio	HDMI Input	No
	HDMI Output	Yes
	Local Input	RCA×1 (currently no function)
	Local Output	RCA×1 (monophonic)
	Audio Compression	G.711(U/A)
Decoding Capability	Resolution	16MP, 12MP, 8MP, 5MP, 4MP, 3MP, 1080P, 720P, D1, CIF
	Decoding Capability	4CH 16MP@30fps or 8CH 8MP@30fps or 12 CH 5MP@30fps or 20CH 3MP@30fps or 32CH 1080P@30fps or 255CH CIF @30fps
External Interfaces	Network Interface	10M/100M/1000M RJ45 ×2
	USB Interface	USB3.0×1 , USB2.0×2
	Alarm Interface	4CH alarm input; 4CH alarm output
	USB Console Interface	1
Others	Power	DC12V 4A
	Power Consumption	48 W
	Working Environment	−10°C - +50°C
	Working Humidity	10% ~ 90%
	Dimensions	380 (W) ×268 (D) × 45 (H)

Dimensions

Unit: mm

