

# VAL-NVR-8CH-IND-4G



## SYSTEM OVERVIEW

VAL-NVR-8CH-IND-4G is an industrial grade network video recorder and sensors data gateway, it integrates normal network video recorder, switch, sensors gateway, serial port server, industrial RTU, 3/4G modem, it is very strong multiple-functions industrial-grade data capturing, management and transmission device.

This product also has a built-in small-scale intelligent management platform that allows the front-end standard Modbus to be deployed without the need to provide deploy server software.

This product comes with free CMS.

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### Industrial design

Adopt high-performance industrial-grade SOC processing chip, which has higher stability;  $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$  wide temperature design, all I ports are with electric isolation protection, lightning protection design, resistant to strong electromagnetic interference, suitable for a variety of harsh industrial field environment.

### The integration of sensor data and video data

The alarm linkage of sensor data can capture pictures and videos, and correlate events to effectively improve the efficiency of video retrieval and playback.

### Standardized protocol

Support standard Modbus TCP/IP protocol, Modbus RTU protocol, standard ONVIF protocol, and can be directly compatible with mainstream configuration software, industrial equipment, and mainstream cameras.

### Video access performance

Support number of high-definition network camera access capabilities, up to support 5 Megapixels resolution network cameras.

### Easy to add IP cameras

Support one button to add network camera function. Supports automatic searching of network cameras across a network segment and one-click addition without modifying the IP address of the network camera;

### High data reliability

The collected data can support remote upload and local storage. When the communication with the master station is interrupted, the data is stored locally. After the communication is resumed, the data can be resumed, and the SATA hard disk can be built in to increase the storage capacity.

### Video overlay sensor data

The sensor data can be directly superimposed on the video stream. The single channel video can be associated with up to 4 groups of sensors.

### Support 4G/3G

The built-in communication module can support LTE 4G/WCDMA 3G/2G, providing customers with more choices for project construction.

### Realtime monitoring

Support various types of sensors access analog sensors, smart sensors, sensor switch, network cameras, real-time display, and on-site relay remote control.

### Intelligent Perimeter Algorithm

Built-in high-performance perimeter analysis algorithm (some models), has adaptive learning capabilities and can adapt to a variety of complex scenarios.



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# TECHNICAL SPECIFICATION

<b>System</b>			
The main processor	High-performance dedicated ARM processor		
Operating system	Real-time Linux operating system		
<b>Video Input</b>			
Network video input bandwidth	96Mbps		
IPC input	8 channel IP cameras, the resolution up to 5 mega pixels		
<b>Insight</b>			
Perimeter detection	Support 2-way		
Face Detection	Support 1 channel		
<b>External Interface</b>			
100MEthernet interface (downward)	4		
HDMI Interface	1		
Wireless Modules	Does not contain	3G WCDMA	4G LTE
1000M Ethernet Interface	1		
USB interface	1		
Switch	8 + 4 channel configurable		
Analog	4 Compatible 4 ~ 20MA / 0 ~ 5V 16-bit resolution		
Relay output	4 may be subjected to a load 3A 250V AC / 3A 30V DC output of three-terminal, NC, NO optional		
RS485 protocol	4		
RS232 protocol	1 channel		
DC 12V controllable output	2 2A Output Current		
<b>Electrical Performance</b>			
Power input	DC 12V- availability to integrate with rechargeable battery/ solar		
Power	<10W(Excluding the load, without hard disk)		
Operating temperature	-30 °C ~ 70 °C		
Working humidity	0% to 95% RH (non-condensing)		
<b>Exterior features</b>			
Dimensions (mm)	280 * 245 * 44 (mm) (L x W x H) contain the mounting brackets		
Weight	<2KG (without hard drive)		

## SERVICES AVAILABLE

[Technical Support](#)  
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