



# Digital Video Recorder



# 16 Channel Penta-brid 5M-N/1080P WizSense Digital Video Recorder

- · H.265+/H.265 dual-stream video compression
- · Supports 16 channel Al-Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 8MP;
   Max 128 Mbps incoming bandwidth
- · Up to 4 channels video stream (analog channel) SMD Plus
- · Up to 16 channels video stream (analog channel) SMD Plus.
- · Up to 2 channels video stream (analog channel) human face recognition
- · IoT & POS functionalities.



### **Series Overview**

Watashi Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR i3 series, featuring max.full-channel SMD Plus to benefit customers from Al upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level

### **Function**

### **Face Recognition**

WATASHI Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

\*Face Recognition takes effect when Face is selected in Al Mode.

of various indoor and outdoor facilities.

### **Perimeter Protection**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondaryrecognition for the targets. Improves alarm accuracy.

\*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode

### SMD Dlue

With intelligent algorithm, WATASHI Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in Al Mode

### Scheduled Al

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

### **Smart Dual Illuminators**

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of

Al-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

### **One-click Arming/Disarming**

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

### **Customizable Alarm Audio**

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

### Al Coding

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

### **Audio over Coax**

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.





# WVR011L-I3

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<b>Technical Specification</b>	n		
System			
Main Processor	Embedded Processor		
Operating System	Embedded Linux		
Operating Interface	Web; Local GUI		
Perimeter Protection			
Perimeter Performance of AI by Camera (Number of Channels)	Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel		
Face Detection			
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s)		
Face Recognition			
Face Database Capacity	Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be added to each face image		
Face Recognition Performance of AI by Recorder (Number of Channels)	2 channels		
SMD Plus			
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leave rain and lighting condition change		
Audio and Video			
Analog Camera Input	16 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect		
Camera Input	1. CVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps, 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.		
IP Camera Input	Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled.		
Encoding Capacity	Main stream: All channels 5M-N@(1 fps-10 fps); 4M-Ni (1 fps-15 fps); 1080p@(1 fps-15 fps); 1080N@(1 fps- 25/30 fps); 720p@(1 fps-25/30 fps); 960H@(1 fps-25/5 fps); D1@(1 fps-25/30 fps); CIF@(1 fps-25/30 fps) Sub stream: D1@(1 fps-15 fps); CIF@(1 fps-15 fps)		
Dual-stream	Yes		
Video Frame Rate	PAL: 1 fps–25 fps NTSC: 1 fps–30 fps		
Video Bit Rate	32 kbps-6144 kbps		
Audio Sampling	8 kHz, 16 bit		
Addio Sampling			

Video Output	2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ HDMI1: $3840 \times 2160$ , $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ It changes to $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is configurable.		
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25		
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung		
Compression Standard			
Video Compression	Al Coding; H.265+; H.265; H.264+; H.264		
Audio Compression	G.711a; G.711u; PCM		
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P		
Mobile Phone Access	iOS; Android		
Interoperability	ONVIF 21.06; CGI		
Browser	Chrome, IE9 or later, Firefox		
Network Mode	Multi-address mode, Fault Tolerance, Load Balance		
Recording Playback			
Record Mode	General, motion detection; intelligent; alarm; POS		
Recording Playback	1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in Al Mode.		
Backup Method	USB device and network		
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)		
Storage			
Disk Group	Yes		
Alarm			
General Alarm	Motion detection; video loss; tampering; local alarm		
Anomaly Alarm	No disk; storage error; disk full; camera offline; IP conflict; MAC conflict		
Intelligent Alarm	Face detection; face recognition; perimeter protection		
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email		
Ports			
TV Output	Yes		
Audio Input	4-channel BNC (external) 16-channel BNC (coaxial audio)		
Audio Output	1-channel BNC		
Two-way Talk	1-channel BNC		
Alarm Input	16 channels		
Alarm Output	6 channels		





# WVR011L-I3

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HDD Interface	4 SATA ports,up to 16TB, the maximum HDD capacity varies with environment temperature	
eSATA	1	
RS-232	1 port, for PC Communication & Keyboard	
RS-485	1 port, for PTZ control	
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)	
HDMI	2	
VGA	1	
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	100-240 VAC, 50±2% Hz	
Power Consumption	<15 W (without HDD)	
Net Weight	4.45 kg (9.81 lb)	
Gross Weight	6.75 kg (14.88 lb)	
Product Dimensions	1.5U, 440 mm × 420.2 mm × 76 mm (17.32" × 16.54" × 2.99") (W × D × H)	
Packaging Dimensions	529.0 mm × 499.0 mm × 211.0 mm 20.83" × 19.65" × 8.31" (W × D × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Operating Humidity	10%-90% (RH)	
Installation	Rack or desktop	

Ordering Information			
Туре	Model	Description	
16 Channels WizSense XVR	WVR011L-I3	1.5U DIGITAL VIDEO RECORDER	

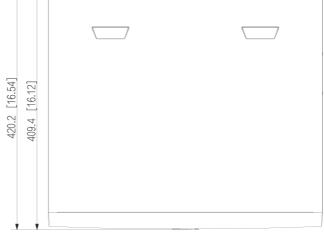
50130, EN 55024

FCC: Part 15 Subpart B

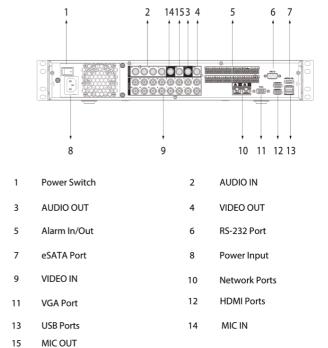
CE: CE-LVD: EN 60950-1/IEC 60950-1

CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN

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### Panels





Certifications