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VMS-503C Data Sheet

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Overview

VMS-503C is an integrated video surveillance platform suitable for medium and large applications. It can connect and manage devices such as IPC, NVR, smart device, decoder, network keyboard, access controller, alarm controller. VMS-503C is easy to deploy, stable and scalable, and can be widely used in retail industries, hospitals, schools and other applications that require a wide range of network stability and interconnection. It is compatible with ONVIF Profile S protocol, enabling interoperability with numerous third-party devices.

- **Stability:** Linux Operating System, Dual BIOS, Redundant Power Supply, Dual Machine Hot Standby
- **Access:** Browser/Server, Client/Server and Mobile Clients (iOS and Android)
- **Number of Connections:** 1000 Device Connections, Up to 2000 Channels of High-Definition Network Video
- **Storage:** Up to 16 Hard Disks, 2 Hard Disk Enclosures, Single Hard Disk up to 14T; Expandable to 48 Disks, 672TB Storage, Recording Backup, IPSAN Storage
- **Services:** Real-Time View, Playback, Sequence, Video Wall, GIS Map, Two-Way Audio, Alarm Plan
- **Compatibility:** Supports Third-Party IP Cameras with Standard ONVIF and RTSP



Key features

Support Multiple Functions

The VMS has linkage alarm, video wall, authority distribution, access equipment, e-Maps, mobile notifications, two-way audio, live view and playback, and more.

ONVIF Ensures Compatibility

This VMS is compatible with devices that support ONVIF and RTSP, therefore you can easily establish a stable and varied network, with no need to check the long compatibility list.

Multi-device Connection Management

It can connect and manage IPCs, NVRs, smart devices, decoders, network keyboards, access control controllers, alarm controllers and other devices. It can connect and manage 1000 devices, 2000 video channels.

Guard Your Security Anytime and Anywhere

Web browser and mobile App are available to view, manage and record the camera through the connected VMS, computer or mobile phone.

Specifications

Table 1 shows the technical specification for FS VMS-503C.

Table 1. Technical specification

Video management	
Number of connected cameras per server	1000 devices or 2000 channels 1000 devices connected via Onvif
Number of connected face recognition terminals	128
Image processing performance	Receive vehicle or face images: 100 images per second Note: For example, if each device uploads 1 image per second, then 100 devices can be connected; if each device uploads 5 images per second, then 20 devices can be connected
Device management	IPC, NVR, face recognition terminal, decoder(standard/expanded), network keyboard, cloud devices, alarm control panel and door access control
Number of 3rd-party alarm control panels/access control devices	30
Numbers of users	1000
Numbers of online users	300
Numbers of roles per user	16
Bandwidth of video input per server	512Mbps
Bandwidth of video output per server	384Mbps
Decoding	
Video compression	Ultra265, H.265, H.264
Decoding	4×4K@30, 16×1080p@30, 36×720p@30, 64×D1
Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/960P/720P/960H/D1/2CIF/CIF/QCIF
Display on video wall	HDMI(×2) and VGA(×1) output; HDMI output supports 4K resolution

Audio compression	G.711A, G.711μ
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Decoding card (optional)	Max 2 cards supported; models: HDMI4-C and HDMI6-C
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HDMI4-C decoding card	4-ch HDMI outputs, with decoding of 4*4K@60 or 8*4K@30 or 32*1080P@30 or 64*720P@30
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HDMI6-C decoding card	6-ch HDMI outputs, with decoding of 6*4K@60 or 12*4K@30 or 48*1080P@30 or 96*720P@30
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Storage

HDD installation	Hot-swappable HDDs Support 16HDDs (3.5", up to 14TB for each)
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RAID mode	RAID0, RAID1, RAID5,RAID6,RAID10,RAID50,RAID60
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Performance of video storage per server	512Mbps/ 256 channels
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Disk enclosure (optional)	Max 2 disk enclosures supported; models: DEU1008 and DEU1016
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DEU1008 disk enclosure	8xSATA interfaces, up to 14TB storage per interface
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DEU1016 disk enclosure	16xSATA interfaces, up to 14TB storage per interface
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Play control	1 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 / 13 / 16 / 17 / 25 / 32 / 36 / 64 window display Corridor format Up to 3 auxiliary monitors
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Playback	Play NVR recordings Up to 24 channels for multiple clients; synchronous playback up to 16 channels for single client
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Data Info

Alarm Records	200,000
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Operation logs	200,000
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Face capture records	3 million
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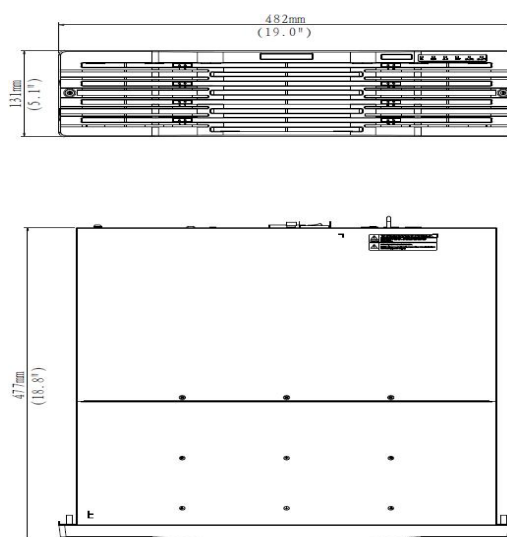
Face alarm records	3 million
Vehicle pass-through records	3 million
Structured motor vehicle, non-motor vehicle and pedestrian records	3 million
Access control entry/exit records	3 million
Alarm processing capacity	100/s
System	Main Processor
	Memory
	Power supply
Interface	
Network	4×10M/100M/1000M Base-T adaptive Ethernet interfaces 2×1000M SFP optical interfaces
USB	4×USB3.0
HDMI	2×HDMI
VGA	1×VGA
Serial	1×RS-232 (RJ45), 1×RS-485 (RJ45)
Alarm input/output	24×alarm inputs, 8×alarm outputs
Power output	12 V DC
Audio alarm	Buzzer
Expansion	1×eSATA interface 2×miniSAS interfaces 2×decoding cards

Others

Power consumption	$\leq 50\text{W}$ (not including HDD) $\leq 165\text{W}$ (including HDD)
Operating temperature	-10°C to 55°C (14°F to 131°F)
Operating humidity	10% to 90% (noncondensing)
Weight	$\leq 10.0\text{ Kg}$
Dimensions (D×W×H)	Height: 3U, support mounting in standard 19" cabinet $477.1\text{ mm} \times 481.6\text{ mm} \times 130.5\text{ mm}$ ($18.8'' \times 19'' \times 5.1''$) (including front panel)

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the VMS-503C camera, contact your account manager or visit <https://www.fs.com/products/189431.html>

Document history

New or revised topic	Described in	Date
Updates to FS VMS-503C Camera Data Sheet	Updated all	24/8/2023



Delaware, United States

Address : Delaware: 380 Centerpoint Blvd,
New Castle, DE 19720, United States

Email : US@fs.com

Tel : +1 (888) 468-9910

Germany

Address: Röntgenstraße 18, 85757 Karlsfeld,
Germany

Email : DE@fs.com

Tel : +49 (0) 8131 377 3008

Australia

Address: 57-59 Edison Rd, Dandenong South,
VIC 3175, Australia

Email : AU@fs.com

Tel : +61 3 5909 9990

Japan

Address: JS Progress Building 5F, 4-1-23,
Heiwajima, Ota Ku, Tokyo, 143-0006, Japan

Email : JP@fs.com

Tel : +81-3-6897-9438

California, United States

Address : California: 15241 Don Julian Rd, City
of Industry, CA 91745, United States

Email : US@fs.com

Tel : +1 (888) 468-9910

United Kingdom

Address: Unit 8, Urban Express Park, Union Way,
Aston, Birmingham B6 7FH, United Kingdom

Email : UK@fs.com

Tel : +44 (0) 121 726 4775

Singapore

Address : 7002 ANG MO KIO AVENUE 5 #05-02
Singapore 569914

Email : SG@fs.com

Tel : +65 31381992



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