



DCS-F500

VIDEO MANAGEMENT SERVER

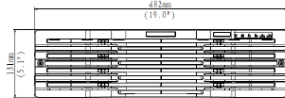
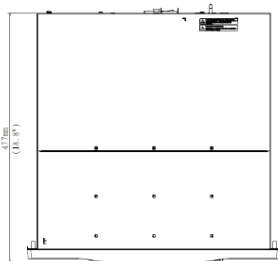
The DCS-F500 is a smart integrated surveillance platform with video input, storage, transfer and device management functions designed specifically for digital surveillance applications. The DCS-F500 has adopted audio/video compression and decompression, embedded system, storage, network, and smart technologies and it is suitable for security surveillance scenarios such as residential areas, buildings, campus, hotels, and shopping malls etc.

KEY FEATURES

- **Stability:** Linux OS, dual-BIOS, redundant power
- **Compatibility:** Third-party IP Cameras supported with standard ONVIF
- **Access:** Browser/Server, Client/Server and mobile clients (both iOS and Android)
- **Monitoring:** 1000 device connections, up to 2000 channels of high-definition network videos
- **Recording:** 256 Cameras
- **Management:** Unified management of NVR, IPC, encoder, decoder, network keyboard, alarm control panel and door access control, support devices configuration import/export
- **Storage:** Max 16 hard disks and 2 disk enclosures; expandable up to 48 disks with 384TB storage
- **Decoding:** Max 16×1080P decoding outputs in three screens, expandable up to 112×1080P in 15 screens with 2 decoding cards inserted
- **Service:** Live view, playback, sequence, video wall, E-map, two-way audio, and alarm plan
- **VCA:** Support of receiving VCA alarms, configuring alarm-linkage operations, and displaying people counting statistics in reports
- **Reliability:** Support of HTTPS, 802.1x authentication, ARP protection, Telnet enabling/disabling, network fault tolerance, multi-IP configuration and load balancing

VIDEO MANAGEMENT	
Number of connected cameras per server	Device:1000 devices or 2000 channels monitoring IPC, NVR, encoder, decoder(standard/expanded), network keyboard, alarm control panel and door access control
Device management	Recording: 256 Camera, ONVIF Device: 200 Devices
Numbers of online users	300
Numbers of roles per user	16
Bandwidth of video input per server	512 Mbps
Bandwidth of video output per server	384 Mbps
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.711
Decoding card (Optional)	Max 2 cards supported; models: F500-HDMI4 and F500-HDMI6
F500-HDMI4 decoding card	4-ch HDMI outputs, with decoding of 4*4K@60 or 8*4K@30 or 32*1080P@30 or 64*720P@30
F500-HDMI6 decoding card	6-ch HDMI outputs, with decoding of 6*4K@60 or 12*4K@30 or 48*1080P@30 or 96*720P@30
STORAGE	
HDD installation	Hot-swappable HDDs, Support 16HDDs (3.5", up to 8TB for each)
RAID mode	RAID1, RAID5,RAID6,RAID10,RAID50,RAID60
Bandwidth of video storage per server	512Mbps
Disk enclosure (optional)	Max 2 disk enclosures supported; models: F500-EN8 and F500-EN16
F500-EN8 disk enclosure	8×SATA interfaces, up to 8TB storage per interface
F500-EN16 disk enclosure	16×SATA interfaces, up to 8TB storage per interface
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	
PLAYBACK	
Play NVR recordings Up to 24 channels for multiple clients; synchronous playback up to 16 channels for single client	
SYSTEM	
Main Processor	Intel(R) CPU
Memory	4GB DDR3L
Power supply	100-240 VAC (with power on/off switch) Dual-power redundancy
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	50W (not including HDD) 165W (including HDD)
Operating temperature	-10°C to 55°C (14°F to 131°F)
Operating humidity	10% to 90% (noncondensing)
Weight	≤ 10.0 Kg
Dimensions	Height: 3U, support mounting in standard 19" cabinet
(D×W×H)	477.1 mm × 481.6 mm × 130.5 mm (18.8"×19"×5.1") (including front panel)

DIMENSIONS



REAR PANEL



- | | |
|------------------------------|-----------------------------------|
| (1) Grounding | (12) miniSAS Interface |
| (2) 1000M SFP Interface | (13) Power Button |
| (3) 1000M Ethernet Interface | (14) Reset |
| (4) RS-485/422 | (15) Alarm Input |
| (5) RS-232 | (16) Alarm Output |
| (6) USB3.0 | (17) 12V Power Output |
| (7) eSATA Interface | (18) Decoding Card (optional) |
| (8) Audio Input | (19) AC Power Module 1 |
| (9) HDMI Output | (20) AC Power Module 2 (optional) |
| (10) Audio Output | (21) Decoding Card (optional) |
| (11) VGA Output | |