

# DHI-FSU6808U-F

## Environment Surveillance Server



### System Overview

Environment Surveillance Server combines networking, video monitoring and dynamic environmental monitoring to provide you with an all-in-one video monitoring solution. Based on the Internet of Things networking, it has multiple innovative technologies integrated into its system such as high-definition audio and video decoding, environmental perception and data acquisition, and component A interface access. The server supports many functions such as analog input acquisition with current/voltage conversion, Modbus bus connection, signal acquisition, warning, alarm generation from network sensors, linkage management, high-definition video access, two-way audio, and information overlay. Combined with a switching power supply, UPS, access control devices, smart meters, and environmental data, this device becomes a comprehensive surveillance solution for plants, central machine stations, smart substations, and IDC data centers.

### Scene

It is suitable for factory equipment rooms, various machine rooms, base stations, substations, data centers and other similar locations.

### Technical Specification

#### Input and Output

Alarm Input	16
Alarm Output	8

#### Port

Network Port	4 × RJ-45 10/100 M self-adaptive Ethernet port
Network Mode	EC25-E:GSM: 900/1800 MHz, WCDMA: B1/B5/B8, LTE-FDD: B1/B3/B5/B7/B8/B20, LTE-TDD: B38/B40/B41 EC25-AUX: B1/B2/B3/B4/B5/B7/B8/B28/B40
USB	1 × USB 2.0 port, connects mouse

- 16 channels of wired zone alarm input and NO/NC detector connection.
- 8 channels of repeater output and forced on/off and auto control.
- 8 channels of local analog input (4–20 mA, 0–5 V); FS accuracy is within 0.5%.
- 8-channel RS-485 data communication port. Alpha channel is supported with a sending/receiving speed of 300 bytes each time.
- Supports 8-ch 1080p or 16-ch 720p digital video connection, and the video overlay function.
- Data and video uploading through TCP/IP and 4G.
- SMS alarm notifications. Up to 5 phone numbers can be set.
- Video overlay: Up to 8 lines can be added with 32 English letters in each line. Each type of data is displayed in a different color. Remote video overlay supports up to 5 lines with 32 English letters per line, and controls IPC OSD color. You can also watch the live view, play back videos, overlay information on snapshots, and switch between 3 OSD types on the web client.
- Supports the alarm filtering function. Filter strategy is customizable to reduce pressure on maintenance.
- Stores up to 50,000 logs, saving logs for alarm events, telemetering data, operation logs, and data/time.
- Local GUI operation.
- High-standard hardware protection technology with surge protection of up to 10 kV, and electrostatic protection that supports up to 8 kV contact discharge, and up to 8 kV of air discharge.

Storage battery	1 set of storage battery ports
Analog quantity	8 channels (4–20 mA or 0–5 V); FS accuracy is within 0.5%
RS-232	2 × RS-232 ports, can be used as RS-485.
HDD Interface	1 × 3.5-inch built-in SATA hard drive. Up to 10 TB per drive. Used as video storage.
SD Card	1 × Micro SD card (32 G) (optional)
Indicator Light	5 function indicators (power, status, network, 4G, and disk)
Button	1 × reset button
RS-485	8 channels. Up to 20-channel detectors of the same type can be connected
Buzzer	1 × built-in buzzer

**Audio and Video**

Video Input	8 × 1080p or 16 × 720p videos
Video Output	1 × HDMI output for displaying GUI
Video Compression	H.264; H.265; Smart H.265; Smart H.264
Audio Input	1 × audio input
Audio Output	1 × audio output (used as voice talk as well)
Two-way Audio	1 × two-way voice talk
Voice Broadcast	Supports audio in MP3, PCM and WAV formats.
Audio Compression	G.711A; G.711U; PCM

**Function**

SMS	SMS alarm
Auxiliary Power Output	1 × 12 VDC/2 A power output
Network Protocol	PPTP, L2TP, DHCP, UPnP, NTP and other network protocols
Remote Update	Web remote update
Communication Protocol	Modbus-RTU, Modbus-ASCII, 1363, Modbus-TCP and other peripheral protocols.
OSD Overlay	Video overlay: Up to 8 lines can be added with 32 English letters in each line. Each type of data is displayed in a different color. Remote video overlay supports up to 5 lines with 32 English letters per line, and controls IPC OSD color. You can also watch the live view, play back videos, overlay information on snapshots, and switch between 3 OSD types on the web client.
Video Linkage and Snapshot	Yes
High-frequency Alarm Filter	Yes
Alarm Linkage Filter	Yes
FTP server	Supports building FTP server to facilitate reading of the device SD card through FTP
Log	Supports 50,000 logs, including alarm events, telemetering data, operation logs, and data/time
Power Failure Protection for Configured Parameters	Yes
Search Remote Alarm Event	Yes
User Management	64 remote users
Access Configuration	Supports remote web visit, searching for and configuring peripherals, and quick configuration
VPN Network Configuration	Layer two tunneling protocol (PPTP and L2TP)
Function	Supports alarm output linkage settings
Language	English

**General**

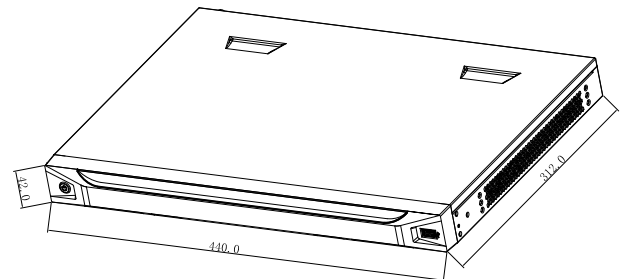
Power Consumption	Idling: 15 W Full load: 60 W
Operating environment	-10 °C to +55 °C (+14 °F to +131 °F) 10%–90% (RH)

Product Dimensions	440 mm × 312 mm × 42 mm (17.32" × 12.28" × 1.65") (L × W × H)
Packaging Dimensions	536 mm × 402 mm × 140 mm (21.10" × 15.83" × 5.51") (L × W × H)
Installation	Wall mount; rack mount
Net Weight	3.3 kg (7.28 lb)
Gross Weight	5.3 kg (11.68 lb)

**Ordering Information**

Type	Model	Description
Environment Surveillance Server	DHI-FSU6808U-F	Dahua Wired FSU

**Dimensions (mm[inch])**



**Application**

