KX-F8412ESN

Edge Storage Terminal

· Supports 12-channel HD video and image input and building composite images in ANPR composite mode.
· Performs section speed measurement for multiple sections and channels.
· Settings can be customized for the different sections.
· The speed limit can be set for small and large vehicles.
· Speeds that exceed or fall below set limits can be filtered out to reduce false alarms.
· The violation name and code can be set based on the ratios of the speed vehicles travel at.
· Images can be searched for by event and status.
· Offers GPS and Beidou positioning, and 4G.
· Matching schemes can be set when developing images.
· Storage can be allocated for images and videos, and the system can be configured to overwrite data when storage is full.

Basic	
Operating System	Linux
Operating Interface	Web client
Network Protocol	TCP/IP; HTTP; HTTPS; SFTP; FTP; DNS; RTP; RTSP; RTC; NTP; DHCP; IEEE 802.1X
Image Encoding Format	JPEG
Main Processor	High-performance embedded processor
Memory	2 GB
Power Switch	1 power switch
Indicator Light	1 × on/off status; 1 × operation status; 1 × alarm indicator; 1 × disk read/write indicator

Function	
Storage	Disk; FTP; SFTP
OSD Overlay	Time, address, lane name, driving direction, violation code, violation name, vehicle speed, speeding ratio, plate, plate color and type, vehicle color and size, vehicle type, seatbelt status, call, GPS information, remote device GPS, section information and code, section distance and speed limit, entry and exit time, entry and exit lane, and more.
Positioning	GPS; BDS
Composite Image	Supports combining 1 to 6 source images into a composite image by using normal and related composition functions. Related channels can be set to match target images across channels, so that a composite image can be developed providing an overall impression of the target. Supports 3 strategies for matching: ID matching, plate matching, and a combination of matching the ID first, and then the plate. Supports

Automatic Network Replenishment (ANR)	fuzzy match by vehicle type, vehicle lane, plate color, and vehicle color. Customize the order that images are merged in and the close-up image number. Platform and FTP; manual upload
Auto Registration	Yes
Restricted List/Trusted List	Yes. Import and export allowlist and blocklist files and perform fuzzy search of vehicles on the list by plate number.
Anti-deletion	Yes. Videos and images cannot be directly deleted.
Vehicle Search	Search by time, channel, plate, speed, lane, target type, plate color, vehicle color, and violation type such as not wearing seatbelt and calling while driving. Fuzzy search is supported. Export results in CSV and EXCEL format.
Alarm Event	Storage full, external alarm, license plate blocklist, illegal access, and security fault alarm.
Built-in Software	Edge Storage Device Software
Mobile Network Frequency Band	4G_LTE FDD: B1/B3/B5/B7/B8/B20/B28 4G_LTE TDD: B38/B40/B41 3G_WCDMA: B1/B5/B8 2G_GSM: B3/B5/B8

Port	
HDD Interface	2 × 4 TB disk (included); supports max. 4 SATA 3.5" disks.
RS-232	2, one of them is for debugging data from the serial port.
RS-485	4
USB	2 USB 3.0 Ports

Network Port	18 (2 × RJ-45 Ethernet port 10/100/1000 M network transmission and 16 × RJ-45 Ethernet port 10/100 M network transmission)
Optical Fiber	2, 1000 M SFP fiber port. Dual NICs G1/G2 on the same network segment.
SIM Card	1
Antenna	2
Audio Input	1 × 3.5 mm port
Audio Output	1 × 3.5 mm port
Video Input	Supports 16-ch HD video input in video access mode and 12-ch input in ANPR Composite mode.
Alarm Input	4
Alarm Output	4 (optocoupler)
Power Output	1, 12 VDC
General	
Power Supply	12 VDC
Power Consumption	<40 W
Operating Temperature	−30 °C to +65 °C (−22 °F to +149 °F)

Operating Humidity	10%–90% (RH), non-condensing
Product Dimensions	355.0 mm × 267.5 mm × 118.5 mm (13.98" × 10.53" × 4.67") (L × W × H)
Net Weight	6.5 kg (14.33 lb)
Gross Weight	9.5 kg (20.94 lb)
Installation	Rack mount; desktop mount

Dimensions (mm [inch])