



EC521S

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The EC521S (DSJ-TDTH6A1) recorder is based on the 5GSOC solution, with a preferred MTK Dimensity 7 nm 8-core CPU and an Android open platform. It supports GA/T 947, GA/T 1987, GB/T 28181, GB 35114, GA/T 1400, and Onvif standards. The device features 4K HD recording, AI intelligent recognition, high-volume intercom, high-precision positioning, low power consumption, and long battery life

The EC521S is a precision protocol-equipped device featuring a 2.4-inch touchscreen, dual front and rear cameras, a built-in video recording button, and integrated components including a gyroscope, accelerometer, ambient light sensor, NFC, and dual-band positioning module (supporting independent Beidou navigation). By seamlessly integrating 5G wireless transmission with intelligent machine vision, it combines smart perception, high-definition data transmission, and command scheduling functions. This achieves innovative applications in the wireless recorder industry, including digital panoramic documentation, wireless evidence archiving, and multi-terminal integrated command systems.

It is widely used in public security, traffic police, transportation, energy, emergency, justice, urban management and market supervision and other government departments, law enforcement, traffic police road inspection, highway law enforcement, special police security for major events, vehicles Station danger personnel identification, power line inspection, coal mine blasting inspection and other industrial scenarios.



Product features

Super loud output, unlimited intercom

- The large sound chamber design, comparable to the external volume of the walkie-talkie, outdoor call is clear and audible. Easy to deal with noisy outdoor environment, no worry about duty, no limit of intercom

One-click recording, quick blind operation

- The video camera is front-mounted and can be triggered with one button. It is suitable for bad weather or blind operation with gloves. Record when you turn on the machine. When you turn off the machine, press the recording button for a long time to start the machine and automatically start recording. The key layout is optimized to make it convenient for users to operate blindly and improve the comfort of use,

Reduce accidental contact

Smart energy management, super long endurance

- The power consumption of the whole machine is controlled and the energy optimization algorithm reduces the power consumption. The single battery lasts 9 hours continuously

- Both batteries operate 24/7

Dual frequency high precision positioning, efficient command

- Dual-frequency positioning, faster and more accurate city positioning
- Built-in domestic high precision positioning chip, dual frequency reception combined with RTK high precision algorithm, to achieve meter level precision positioning
- In visual command, the location and movement trajectory of the incident can be monitored in a timely and accurate manner, and joint action can be taken quickly
- Attendance, clocking in and out time assessment, and accurate positioning service for high-risk areas in railway and energy industries. Support single北斗 positioning

Intelligent anti-shake algorithm, stable recording

- Integrated intelligent anti-shake algorithm to improve the stability of mobile recording. The scene shot in the motion is stable and clear

AI intelligent recognition, innovative application

- Intelligent optimization algorithm realizes front-end AI identification solution
- Face recognition: face detection, feature value extraction, face comparison
- License plate recognition: license plate detection, license plate extraction

Super protection, all-weather adaptation

- IP68 maximum protection class
- 2m drop resistance design, in line with the US military standard MIL-STD-810G
- Ultra-wide temperature operating range -30 to +55 degrees, normal operation under extreme conditions

Excellent video performance, extreme image

- 4K HD recording, ultra HD video quality, better restoration of details
- 120° super large horizontal wide-angle, supporting video forensics to capture a large field of view and rich on-site information
- Ultra-small distortion, no more than 5%, high fidelity. Dual main and secondary cameras can be used for video call
- Supports dual bit stream, and supports local synchronous recording while real-time video is returned



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size of product

name of index	desired value
size	99.7mm (height) × 63.3mm (width) × 30.9mm (thickness)
weight	Approximately 199g (excluding the back clip)
display screen	2.4 Inch color liquid crystal touch screen
screen resolution	240×320
battery capacity	3400mAh
processor	8 cores (2 A76+6 A55),2.0GHZ
camera	<ul style="list-style-type: none"> • Main camera: 12 megapixels· Aux camera: 2 megapixels· Photo: 64 megapixels • Video recording resolution: optional 4K,2K,1080P,720P, D1, default 720P; frame rate optional, default 25 frames per second
angle of view	<ul style="list-style-type: none"> • Main camera: 120° horizontal wide Angle, 129° diagonal, 81° vertical • Supplementary photo: 63° horizontal, 75° diagonal, 50° vertical
white balance	support
flash lamp	support
Infrared night vision	7 meters can be identified, 10 meters can be seen
memory	4GB RAM + 64GB ROM, support 128GB/256GB TF card
Speaker power	2W
MIC	Dual MIC, support active noise reduction
motor	support
fixed position	Support single北斗 positioning
Wi-Fi	Supports 2.4G/5G, IEEE802.11 a/b/g/n/ac
PDA	BT 5.1
NFC	Supports card mode, Reader mode, and NFC sleep wake up
frequency range	<ul style="list-style-type: none"> • 5G NR: n1 (40MHz bandwidth)/3/28/77/78/79, n41 (2515~2690MHz), n40 • FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B26/B28 • TDD-LTE: B34/B38/B39/B40/B41
3G/2G band	<ul style="list-style-type: none"> • WCDMA: B1/B2/B5/B8 • GSM: 850/900/1800/1900MHz
Power class	Meet 3GPP requirements
sensitivity	Meet 3GPP requirements
peripheral interface	<ul style="list-style-type: none"> • Type C USB3.0 • TF card slot: used only as an encryption card • Note: The 128GB/256GB model has no available TF card slot and does not support encryption card
SIM block	Supports hard SIM card (single slot, nano card)
language	a surname
charging interval	≤Two hours
input voltage	≤9V 2A
Working time (single battery)	<ul style="list-style-type: none"> • Video recording is greater than 10 hours (1080p/30fps/H.265) • Video return time is greater than 5 hours (1080p)
Percentage of recorded files	<ul style="list-style-type: none"> • Recording conditions: 1080p(H.265/30fps/4M) File size: 1.8GB/hour • Recording conditions: 2K(H.265/30fps/8M) File size: 3.6GB/hour • Recording conditions: 4K(H.265/30fps/16M) File size: 7.2GB/hour

