

Smarty Drive Recorder

TX4000LE



TX4000LE Features

4 Channel Video recording

AHD camera(720P, 1080P) and SD cameras can be used

Integrated LTE modem

LTE B1/ B3/ B7/ B8/ B20/ B28A /B38 /B40 /B41

Security enhanced design

The sleek design has securely fixed cable connectors and lockable covers to ensure data protection

Intelligent DMS5 API for Live-streaming images

API available for direct integration with Telematics software

1080p Full HD quality video recording

2.1MP Full HD recording captures images allowing you to have finely detailed video

GPS/GLONASS/QZSS

Highly sensitive positioning solution for live vehicle tracking and reporting

Events notification

The system automatically notifies events with images and metadata

Vehicle Signals

Connect vehicle inputs: Speed pluse, RPM, ACC

4 Alarm In and 1 Alarm Out

Connect alarm in to car horn, door opening, taxi meter, emergency lights etc.

Delayed Power Shutdown

Control the duration of time, the unit stays powered and recording & communication with server after shutdown

External Panic button

The system can be connected with an external Panic button

Audio recording

Internal & external microphone captures clear audio recordings in sync with video

Event, continuous and dual mode recording

Different recording modes can be set for different uses and data needs

Professional analysis software

Play back, AVI conversion, analysis, back up, and many more functions can be performed on the PC viewer program Windows 8/10 compatible

Privacy

Passwords can be set to limit people who can view the data, safeguarding private information

Smart G-sensor and Gyro sensor

G-sensor information is presented in a simple graph, making it easier to find impact time

Self check and notification

The system automatically preforms health check and send notifications to operators

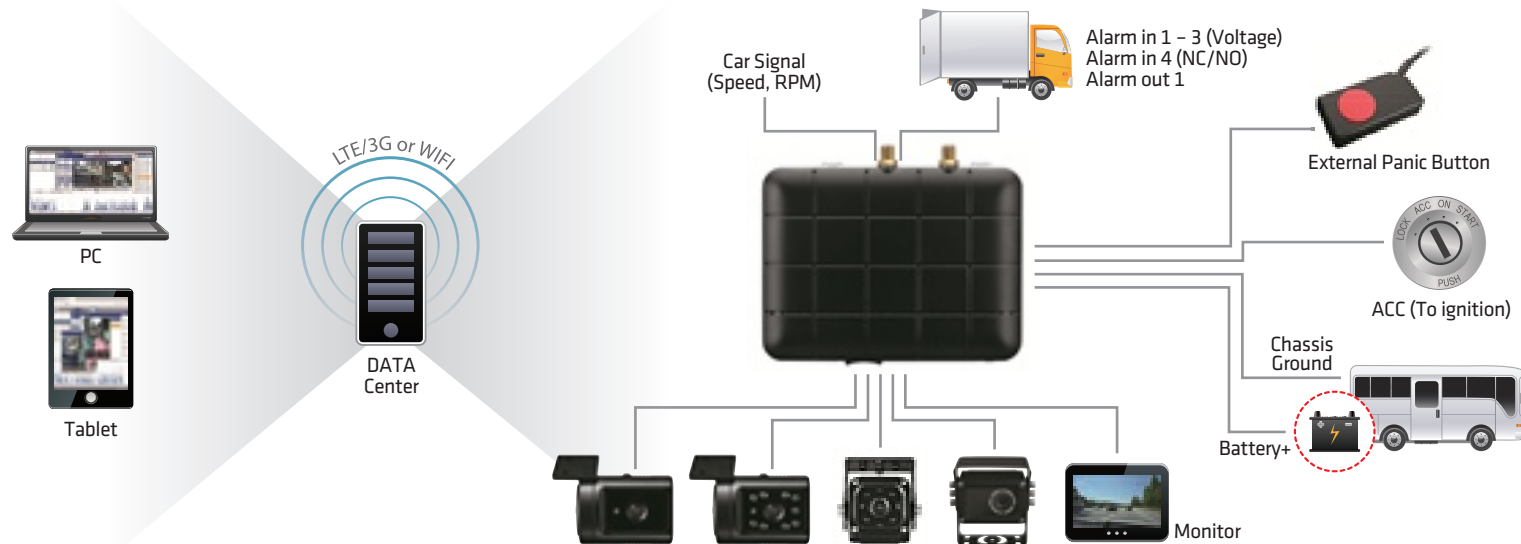
Driving Data

Data on speed, location, abrupt accelerations, sudden turns are recorded in the log files

Google™ Map 3.0 and Google™ Earth licensed

Google™ Map is embedded into the PC Viewer program and Google™ Earth will automatically be accessed

TX4000LE System Diagram



TX4000LE Specification

Size(mm)		System size(mm) : 90x120x28 (Metal cover size : 125x147.5x36)		User interface		LED	3 : Warning LED(Red), Record LED(Blue), Communication LED(Green)
Weight(g)		166.5g(System) / 48g(SW KIT) / 427g(Metal Cover-Include Key)		Button		3 : Panic Button, M1 Button, M2 Button	
Camera	Resolution	(1) FHD(1920x1080) x 2 Channel : Max Total 30 fps		Power		Power spec	DC 12V/24V
		(2) HD x 3 channels(total 45 fps) + D1 x 1 channel(30 fps)		Environment		operating temperature	-10°C ~ +55°C
		(3) D1(720x480, 720x576) x 4 Channel : : Max Total 120 fps		storage temperature		-20°C ~ +70°C	
Storage	SD Card	SDHC/SDXC, 1 Slot		OS		Embedded Linux	
Sensor	G-sensor	3 Axis(X,Y,Z), output rate: 100 Hz, Measurement Range: -4G ~ +4G Sensitivity : 512LSB/g Zero-g offset : ±70mg		Audio Codec		PCM	
	Gyro	3 Axis(X,Y,Z), output rate: 100 Hz, Measurement Range : ±125°/s Sensitivity : 262.4LSB/°/s		Interface		"SD card slot x 1 A/V out x 1 External MIC In x 1 USB slot x 2 (USB 2.0 OTG: Type A, USB 2.0 Host) Serial x 2 (OBDII, GNSS) Video In x 4 (Extension cable) Switch Kit Signal: Alarm In x 3 / Alarm Out x 2 / RPM / Speed DC-in x 1 (B+, GND, ACC) SIM Slot x 1 (Mini-SIM)"	
Positioning	GNSS	Support GPS/Glonass/QZSS satellite, Data output rate: 1Hz CEP: 2.5m, Accuracy of Velocity: 0.1m/s TTFF: within 1 min after boot					
Audio/Video	Buzzer	1		Record Mode		Continuous/Event/Dual	
	MIC	1 (External/Internal)		Record Data		Video, Audio, GPS, G-sensor, Gyro, Driving data	
	Audio/Video Out	HP out / CVBS		Event		G-sensor, Panic, Speed over, Alarm in, Parking, System warning, Car signal	
Communication	LTE	Built-in LTE module (External antenna)		Network Service		DMS5	
		LTE-FDD	B1/ B3/ B7/ B8/ B20/B28A	A/V out		Video Live out, Voice guidance	
		LTE-TDD	B38/ B40/ B41	Miscellany		"G-sensor calibration, High temperature protection, GPS time sync, DST, Encryption(AES)"	
		WCDMA	B1/ B8				
Wi-Fi / Bluetooth		Support USB Dongle Type		Certification		GCF, CE / E-Mark, FCC	