

THE SCHOOL, COLLEGE & COMMERCIAL VEHICLE CAMERA SOLUTION

Educational & Commercial Vehicle CCTV Camera and IRNSS based Location Tracking System

Our Vehicle Camera Solution are specially designed to provide videos using VR. Technology that minimizes blur caused by camera shake.





Mobile HDAVI Vandal Proof Camera

Key Features

- 1/3 SONY CMOS Sensor
- (1920 * 1080P) Resolution
- 4G and WiFi supported (any sim card)
- Inbuilt mic & speaker
- IR LED Range upto 10M
- 2 way audio communication
- 180degree wide angle view
- 25days camera recording
- Vibration & Shock Proof



Vibration & Shock Proof Stabilized Video Recording















PRODUCT SPECIFICATIONS

SIGNAL SYSTEM	PAL@25FPS	NTSC @30FPST	
IMAGE SENSOR	1/3 SONY CMOS Sensor		
EFFECTIVE PIXEL	1920 * 1080P		
SHUTTER CONTROL	1/50 sec to 1/10,000 sec	1/60 sec to 1/10,000 sec	
HORIZONTAL RESOLUTION	1080P @25FPS		
IR	12 * ¢ 5 (14mil) LED lights		
LENS FURNISHED	2 MP HD lens, 2.8mm,3.6mm,6mm optional		
VIEW ANGLE	115 degrees		
LENS INTERFACE	M12		
SIGNAL/NOISE RATIO	More than 60dB		
MIN ILLUMINATION	0.001Lux @ (F1.2,AGC ON), 0 Lux (IR LED On)		
SYNCHRONISATION	Internal		
WHITE BALANCE	Auto		
BACK LIGHT COMPENSATION	Auto		
GAIN CONTROL	Auto		
VIDEO OUTPUT SIGNAL	HD Analog Output		
TRANSMISSION DISTANCE	Up to 500m over coaxial cable		
CONNECTOR	4 PIN aviation connector (female)		
OPERATING CONDITIONS	-10°C ~ +60°C, Humidity 90% or less (non-condensing)		
POWER SUPPLY	DC 12V ± 10%		
CURRENT, POWER CONSUMPTION	250mA , Max 3.5W		
DIMENSION (LxWxH), WEIGHT	Ф90 (base) *75*60 (mm), 0.35КG		
GAIN CONTROL VIDEO OUTPUT SIGNAL TRANSMISSION DISTANCE CONNECTOR OPERATING CONDITIONS POWER SUPPLY	HD Analog Output Up to 500m over coaxial cable 4 PIN aviation connector (female -10°C ~ +60°C, Humidity 90% or DC 12V ± 10%	•	

Benefitors











PARAMETERS

FEATURES	AIS - 140 (IRNSS)	NORMAL GPS
AS PER GOVT. SPECIFICATIONS	✓	×
INDIAN SATELLITE (IRNSS)	✓	×
REAL TIME TRACKING	✓	✓
EMBEDDED SIM (E-SIM)	✓	×
DUAL PROFILE-NETWORK	✓	×
GPS TRACKING WITH ROUTE PLAYBACK	✓	/
SECURED CLOUD STORAGE	✓	×
REPORTS	✓	~
ALERTS ON MOBILE	✓	~
IMMOBILIZER ENGINE ON/OFF	✓	×
GEO-FENCING	✓	×
1 YEAR WARRANTY	✓	×
WATER PROOF	✓	×
INTERNAL BATTERY	✓	×
INTERNAL STORAGE	✓	×

CAMERA	ZEDEVE ZEDEVEC	
CAMERA TYPE	VANDAL PROOF NON-ROTATABLE	CONVENTIONAL ROTATABLE
TECHNOLOGY	IP CAMERA	ANALOG CAMERA
VIBRATION & SHOCK PROOF	YES	NO
IN BUILT MEMORY SLOT & MIC	YES	NO
FRAME RATE	HIGH	LOW
IMAGE DISPLAY	SHARP & CLEAR	GRAINY & BLURRY
COVERAGE ANGLE	BIG & WIDE ANGLE	SMALL & NARROW ANGLE
ENCRYPTION	YES	NO
2 WAY COMMUNICATION	YES	NO
4G SIM & SD CARD SUPPORT	YES	NO
SPECIALLY DESIGNED FOR VEHICLES	YES	NO
WARRANTY	1YEAR + 1YEAR	NIL or 6 MONTHS

Vehicle CCTV

Normal CCTV

Vehicle Location Tracking Device as per AIS-140 (Automotive Industry Standard)

Certified by - International Centre for Automotive Technology Standardization by - Automotive Industry Standard Mandated by - Ministry Of Road Transport & Highways (Govt.of India) Rule - Centre Motor Vehicle Vehicle Rule - 1989

AIS -140 (Automotive industry standard)

AIS -140 defines the Safety and Security feature requirement for all public service vehicles, as defined under the clause (35) of section 2 of the act, shall be equipped with or fitted with vehicle location tracking device and one or more emergency buttons or SOS button. As per the Ministry of Road Transport and Highways (MoRTH), all passenger transport vehicles including taxis and buses are to be mandatory equipped with ITS vehicle tracking devices starting 1st April, 2018.

Implementation

When it comes into implementation, and given that AIS 140 is enforced properly, it can completely change Indian transport, especially in terms of overall safety. The technology can help in ensuring that everyone on the road feels absolutely secure.

Specifications

There are many specifications for the ITS tracking device, under the AIS -140 of which we have listed a few ones here:

- · Location tracking through Indian Regional Navigation Satellite System (IRNSS/NAVIC)
- · Communicate to designated backend government servers with PVT data
- · Dual IP addresses for PVT data and Emergency response
- · Alert ID on pressing emergency button
- · 4-hour internal battery back-up
- · Unique ID or IMEI number
- · Register vehicle to device
- · Operate between 8VDC to 32VDC
- · Assisted GPS
- · 3 axis accelerometer and gyroscope
- · Multi Network Embed SIM (GPRS)

Government Orders

Government of India Notification No G S R 1095(E) New Delhi Dt :28.11.2016 Government of India Notification S.O 5453 (E) New Delhi Dt :26.10.2018 Government of India Notification S.O 5454 (E) New Delhi Dt :26.10.2018

Ministry Of Road Transport and Highways -No.RT.11028/12/2015-MVL- Dated 31st October,2018

Government of India Notification S.O 1081 (E) New Delhi Dt :02.11.2018

Skills

Emergency Response Alert
Vehicle Location Tracking
Device Tampering Alert
Driver Behavior Alert
8 Hours Battery Backup
Every 5 second Location Update

TEDI INDIA PRIVATE LIMITED

Products Available

VTS Device | Panic Switch (SOS) | Internet & Software Application









TECHNICAL SPECIFICATIONS - IRNSS

GPS MODULE

L1 Band Receiver (1575.42 MHz) C/A code Channel 33 Channels

Horizontal Position Accuracy WAAS, EGNOS Autonomous < 2.5 m CEP **SBAS**

Velocity Accuracy Acceleration Accuracy Reacquisition Time < 2.5 CEP

Without aid <1 s Without aid <0.01 m/s 0.1m/s2 TTFF(Time To First Fix) Cold Start <33s

Warm Start 35 s

Warm Start With CGEE <30s

Hot Start <1s

Sensitivity Acquisition - 149dBm

Hot Start -149dBm Tracking -167 dBm Navigation -161 dBm

Patch Antenna Receiving Frequency 1575.42+1.023MHz Environment Operating Temperature -40°C to 85°C

Working Principle

-GPS (global Positioning system) Device can work in the following manners.

-Real Time Tracking

In real time tracking mode the current location can be viewed on the map, or last position when GPS connection was active.

Features of AIS-140

- Real-time Tracking
- 32-bit cortex M3 microcontroller
- 40000 plus records storage wide operating voltage (12v-24v DC)
- Over voltage and reverse connection Protection
- Over the air (OTA)device configuration
- Over the air firmware update(FOTA)
- Dual IP Supported
- Data sending to multiple IPS simultaneously \(\triangle \)
- Support TCP, HTTP&MQTT Protocol
- Accelerometer & Gyroscope
- Four digital inputs
- Two analog inputs
- Two digital output
- SOS switch interface with multiple serial connection

GSM MODULE

- Quad Band 850/900/1800/1900 MHz

- GPRS Multi-slot Class

- GPRS Mobile Station Class 12

3.3 ~4.6 V 4.0V nominal - Supply Voltage Range

- Low Power Consumption 1.2 mA @DRX=5, 0.9 mA @RDX=9

-40°C ~ + 85°C Operation Temperature - Dimensions 18.7mm*16.0 *2.1m

- Weight Approx.

- Control Via AT commands (GSM 07.07, 07.05 and other enhanced AT Commands)

- GSM Module Quectel M66

- GPS Module L89 (Navic Satellite enabled)

ST Micro Electronics - Microcontroller

- Input Voltage 9V ~ 36V

Hardware

- 1. Quad band GSM/GPRS module.
- 2. GPS module with Sirf-Iv technology
- 3. Strong 1300 mah. With internal protective circuit.
- 4. High Speed micro processor
- 5. 16MB internal memory for storing the data in case of
- 6. Two Analog input/ digital inputs + Four digital inputs.
- 7. Two digital OP.
- 8. switching mode Power supply.
- 9. Standard battery management.
- 10. Box tempered indicator.
- 11. Protection against surges.
- 12. Battery remove indicator.
- 13. Small Size.

- IP -66 Interface

Sleep mode for extended battery backup

- Box tampered alert
- Supports AGPS
- Details of network operator name, servicing cell id and neighboring cell ID Info
- GPRS to SMS fall back
- Internal GSM and GPS Antennas
- Operational L and or S band including support for
- Internet uploading details in Vahan and National -Backend server (BSNL & CDAC)
- Activation Message & Health Message





















