



FleetCam®

Enterprise 5 HD

- Embedded Linux operating system
- Extended AI
- H.265/H.264 encoding and decoding
- 2.5-inch hard disk storage protection
- Anti-vibration performance

Developed specifically for mobile video use, the FleetCam Enterprise 5 HD is equipped with a high-speed processor and embedded operating system. It integrates video compression/decompression with the latest in network and GPS positioning. The FleetCam Enterprise 5 HD supports several video formats that can be uploaded remotely. Additionally, it features extended AI algorithms, an Advanced Driver Assistance System (ADAS) alarm, Blind Spot Detection (BSD), and Driver Status Monitor (DSM). It is effective in improving driver safety and reducing pedestrian and vehicle accidents.

H.265 / H.264 Encoding & Decoding

The device supports H.265 and H.264 video encoding. H.265 offers a near 50% reduction in file size and comparable video quality to H.264. H.264 files are larger but offer slightly better video quality and wider support across applications.

Data Loss Protection Hard Drive

The 2.5-inch hard disk storage, hard disk heating & hard disk power-off protection allow for a large storage capacity and protection against data loss.

Multiple Algorithm Support

Supports multiple AI algorithms to assist with driver safety and focus.

Driver Habits & Safety

BSD, ADAS, & DMS support. This helps to track driving habits and assists in safety with features like smoking, and driver fatigue detection as well as follow distance, blind-spot monitoring, and other features.

VIDEO/AUDIO

Input	4-channel AHD (1080p) + 1-channel IPC (1080p)
Output	1-channel (CVBS)
Total Resources (With 2CH AI)	PAL: 1*1080P@25fps (ADAS) +1*720P@25fps (DMS) +2*720P@15fps (AHD) + 1*1080P@15fps (IPC) Or 4*720@25fps (AHD) +1*1080P@15fps (IPC) NTSC: 1*1080P@30fps (ADAS) +1*720P@30fps (DMS) +2*720P@15fps (AHD) + 1*1080P@15fps (IPC) Or 4*720@30fps (AHD) +1*1080P@15fps (IPC)
Total Resources (Without AI or 1 CH AI)	PAL: 4*1080P@15fps (AHD) +1*1080P@25fps (IPC) Or 4*720@25fps (AHD) +1*1080P@25fps (IPC) NTSC: 4*1080P@15fps (AHD) +1*1080P@30fps (IPC) Or 4*720@30fps (AHD) +1*1080P@30fps (IPC)
Audio Input	5 channels (1-channel IPC audio)
Audio Output	1 channel

POSITIONING

GPS	Positioning, speed detection, and time synchronization GPS L1 1575.42 MHz BDS B1 1561.098MH , GALILEO E1B/C1 GLONASS L1OF 1602MHZ SBAS: WAAS, EGNOS, MSAS, GAGAN
G-Sensor	Built-in 6-axis inertial sensor
HDD/SSD	1 x 2.5-inch SATA hard disk

NETWORK

3G/4G (Optional)	Supported For North America LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 For Europe and Asia LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 For Latin America LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8
WIFI (Optional)	802.11a/b/g/n/ac
IPC Ethernet	6-pin aviation plug (1 x 100M, PON power supply)

RECORDING

Video Compr. Format	H.264/H.265
Audio Compr. Format	ADPCM, G.711U
Image Resolution	PAL 1080P (1920 x 1080), 720P (1280 x 720), WD1 (928 x 576), WHD1 (928 x 288), WCIF (464 x 288), D1 (704 x 576), HD1 (704 x 288), CIF (352 x 288); NTSC 1080P (1920 x 1080), 720P (1280 x 720), WD1 (928 x 480), WHD1 (928 x 240), WCIF (464 x 240), D1 (704 x 480), HD1 (704 x 240), CIF (352 x 240); Digital 1080P (1920 x 1080), 720P (1280 x 720);

PORT

USB	1 x USB2.0
Serial Port	1 x RS232; 1 x RS485(R-WATCH)
IO	8-channel input and 2-channel output

POWER SUPPLY

Input	DC 8 - 36 V
Output	5 V@500 mA
Maximum Typical Power Consumption	35 W (5 Channels with IR on connected, CP4 connected, 5V_OUT connected)
Standby Power Consumption	0.7 W

ENVIROMENT

Operating Temperature	-40°C to +70°C (heated, without hard disks)
Operating Humidity	8% to 90% (non-condensing)

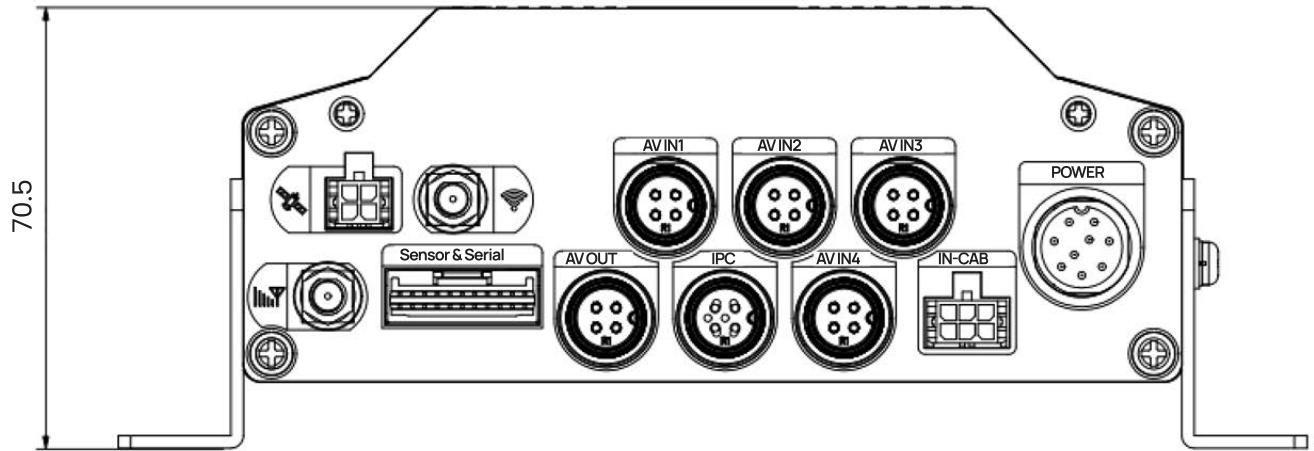
DISPLAY

Screen Split	1/4/9-screen display
Screen Display	Positioning information, alarms, license plate numbers, driving speed, time, etc.

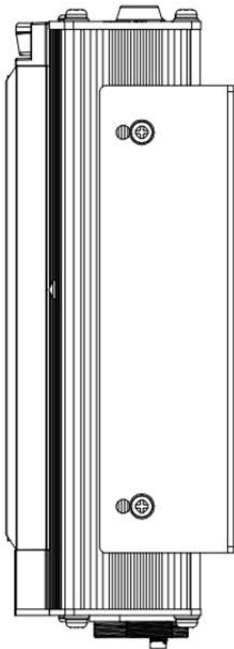
PHYSICAL

Dimensions (mm)	206.0 x 190.0 x 70.5
Weight (kg)	1.2

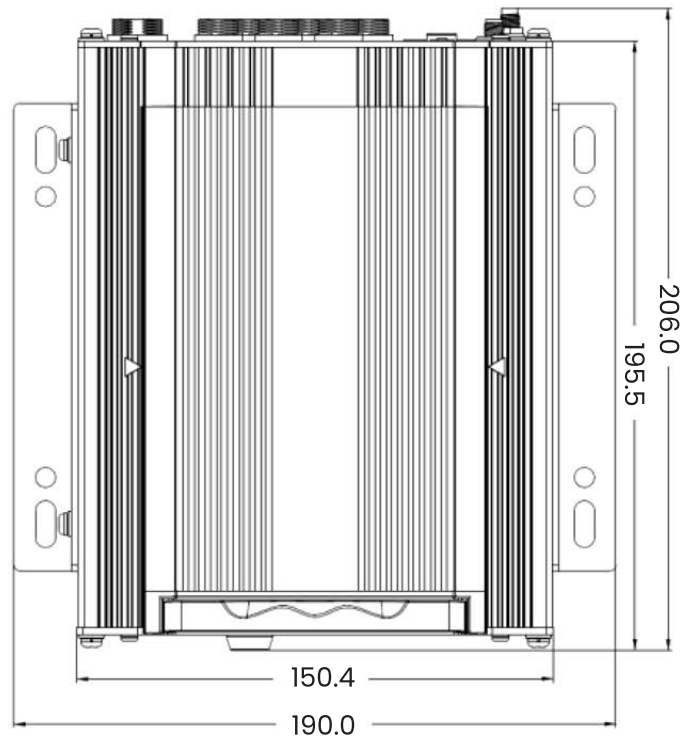
FRONT VIEW (MM)



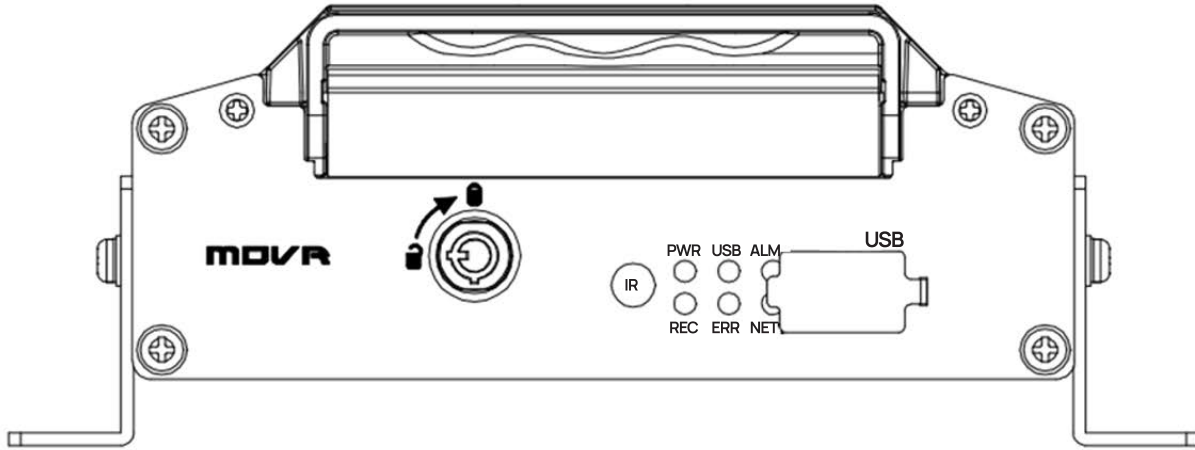
LEFT VIEW



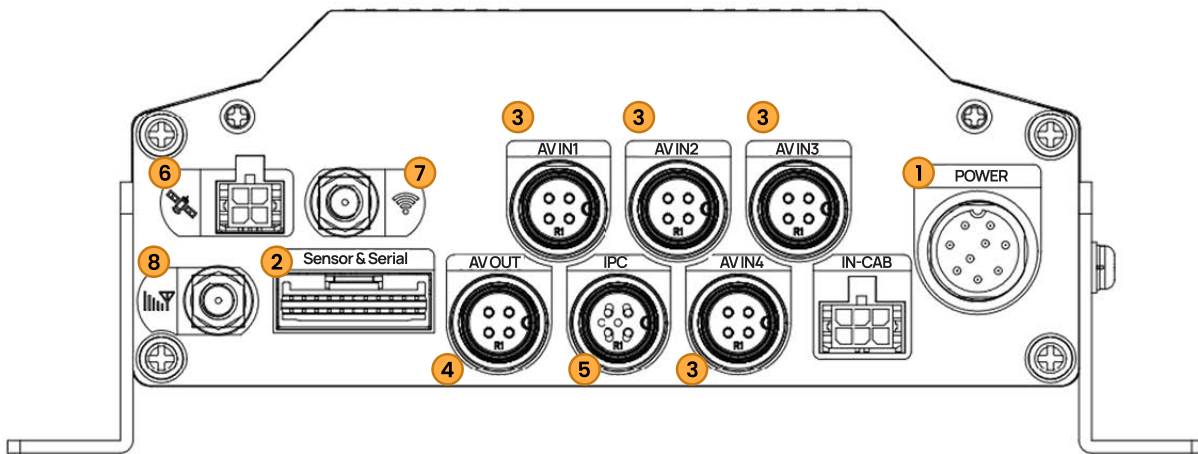
TOP VIEW (MM)





PANEL PORTS



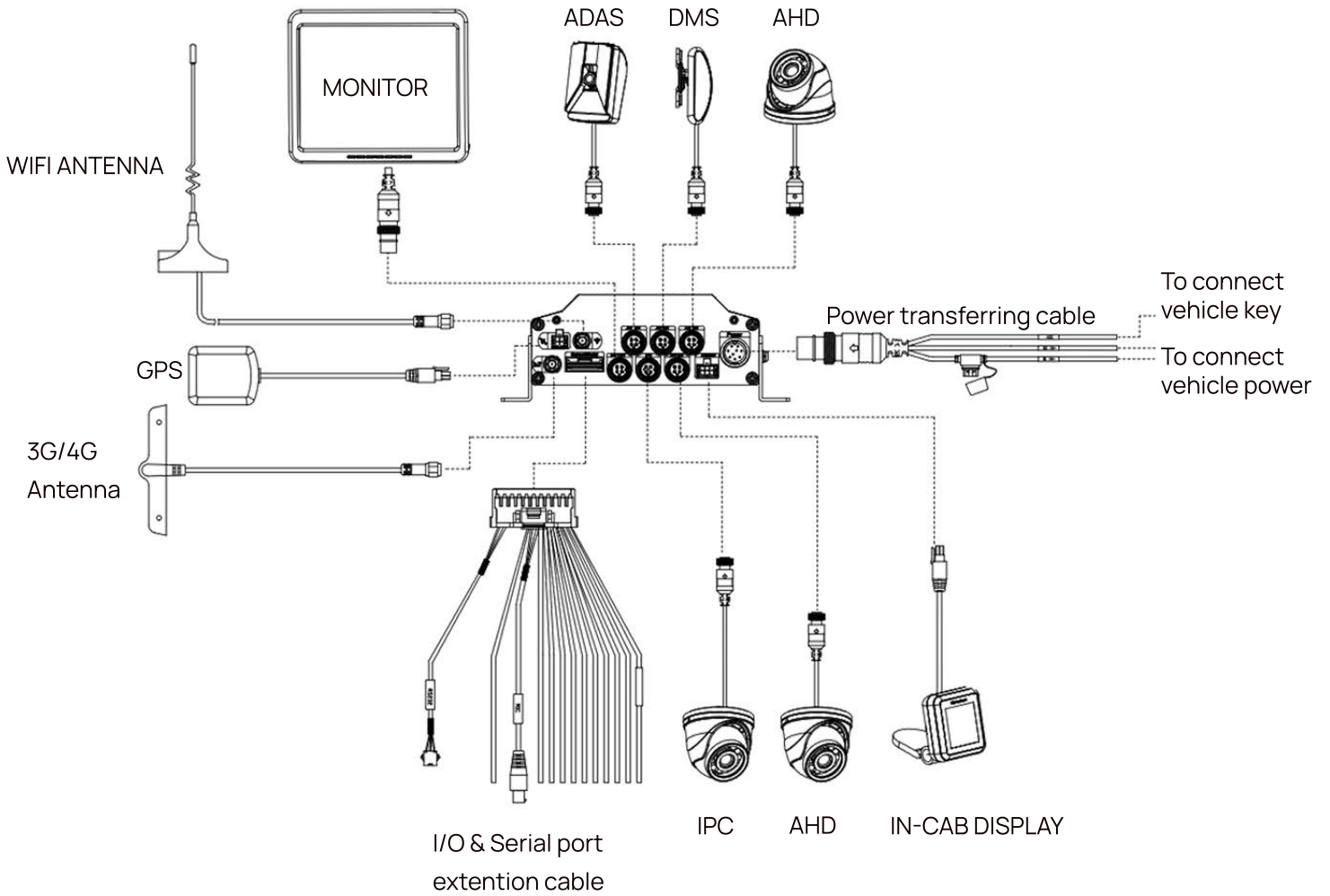
REAR PANEL



- | | | |
|----------|---|---------------------------------------|
| 1 | Power | 8-36 V DC power input |
| 2 | Sensor & Serial | Serial port and IO port |
| 3 | A/V IN 1~4 | Analog audio/video input ports 1 to 4 |
| 4 | A/V OUT | Analog audio/video output port |
| 5 | IPC | PON-powered IPC port |
| 6 |  | GPS/BD antenna connector |
| 7 |  | 3G/4G antenna connector |

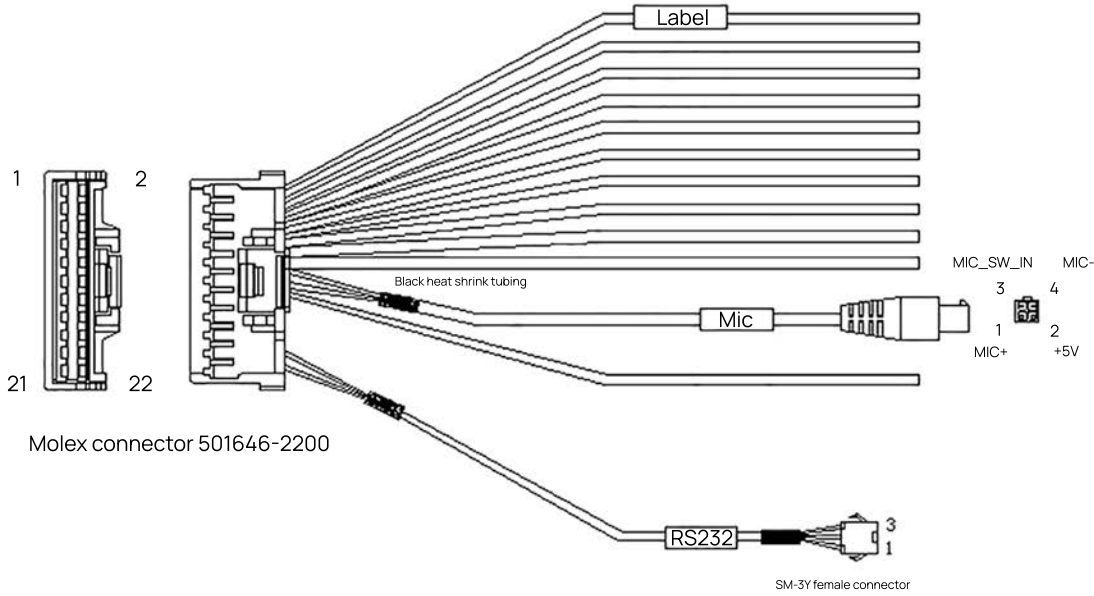
INSTALLATION

TYPICAL WIRING DIAGRAM



EXTERNAL CABLE CONNECTOR PINOUTS

ALARM CABLE CONNECTOR PINOUT

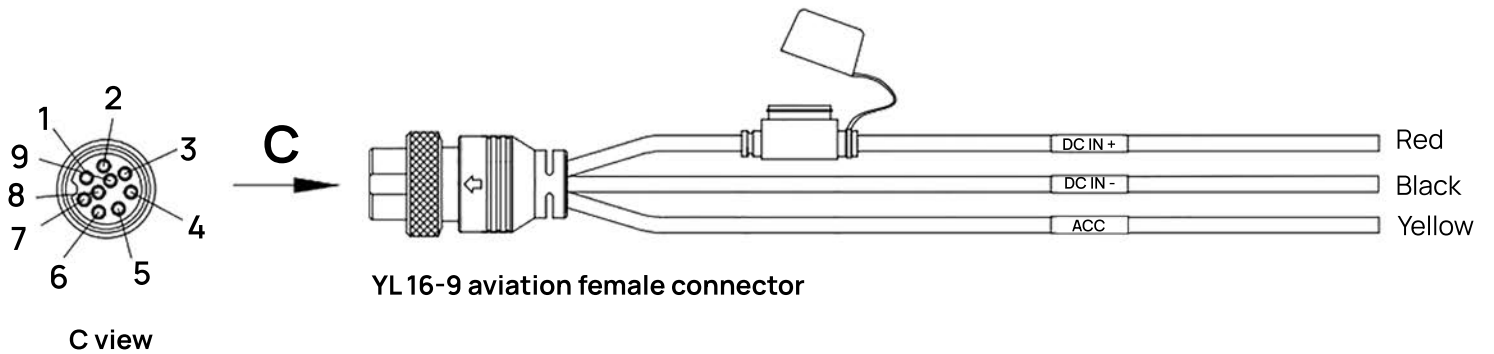


PINOUT

501646-2200	Label content
1	Green SENSOR IN1
3	Gray SENSOR IN2
5	Light green SENSOR IN3
7	Light blue SENSOR IN4
9	Gray SENSOR IN5
11	Orange SENSOR IN6
13	Blue/Black SENSOR IN7
15	Blue/White SENSOR IN8
17	Blue SPEED IN
12	Red/White SENSOR OUT1
14	Red/Yellow SENSOR OUT2
19	Black GND
21	Red +5V
<i>Large 5559-4P</i>	
16	3 MIC-SW
20	4 MIC-
22	1 MIC+
21	2 +5V
<i>SM-3Y</i>	
18	Black 1 GND
10	2 232 RX-1
8	3 232 TX-1

EXTERNAL CABLE CONNECTOR PINOUTS

POWER CABLE CONNECTOR PINOUT



Pin definitions

1	Red (DC IN+)	UL1015 16AWG
2		
3	Yellow (ACC)	UL1007 18AWG
6		
7	Black (DC IN-)	UL1015 16AWG