Streamax 锐明

股票代码 002970

# C6 Lite2.0

## Specification




深圳市锐明技术股份有限公司

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# Preface

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Please read this manual first to ensure correct usage and the proper functioning of the required features.

| | |
|---|---|
|  | **Warning**: Situations that may involve the safety of the device user or cause harm to the device user. |
|  | **Special Attention**: Situations that may compromise data integrity or damage the device firmware and hardware. |
|  | **Note**: Additional explanations, glossary of terms, etc. |

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**Abbreviation List:**

| Abbreviation | English Explanation |
|---|---|
| 1080P | Resolution ratio 1920×1080 |
| ADAS | Advanced Driving Assistance System |
| DSC | Driving Safety Cockpit |
| VBR | Variable Bit Rate |
| CBR | Constants Bit Rate |

# 1. Product Introduction

C6 Lite2.0 is an intelligent driving recorder designed to help drivers reduce traffic accidents and assist fleet management in improving efficiency. Utilizing AI technology, it can actively identify dangerous driving events and poor driving behaviors, providing local real-time alerts to drivers to avoid risks and supporting event uploads to the fleet management platform for driver training. It offers real-time, accurate vehicle location information and operational data to the fleet management platform, along with high-quality remote intercom and video preview playback functions, reducing fleet management difficulty and enhancing efficiency. Additionally, this product is reliable in quality, easy to install, simple to use, and cost-effective.

# 2. Features

- Front road wide-angle lens, supports up to 1080P HD recording
- Rear driving cockpit ultra-wide-angle lens, supports up to 1080P HD recording
- Supports up to 2 channels of recording
- Supports H.264/H.265 encoding
- Supports 2*512GB dual Micro SD card storage, supports simultaneous saving of main stream and sub stream
- Built-in Wi-Fi, 4G communication module, and standard positioning module
- Audio and video data supports AES256 encryption, data transmission supports TLS1.3 encryption protocol
- Supports 2 IO inputs, 1 IO output
- Device hardware : CAN version
- Compact design, does not obstruct the driver's view in both large and small vehicles
- Built-in ADAS function, supports lane departure, forward collision, and close distance detection
- Built-in DSC function, supports detection of poor driving behaviors

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- Supports echo suppression algorithm, enhances the quality of two-way voice intercom
- Supports sleep mode and remote wake-up
- Built-in 6-axis gravity sensor, supports detection of rapid acceleration, rapid deceleration, sharp turns, and collisions

## 2.1 AI Features

C6 Lite2.0 uses machine vision based on video analysis technology to automatically identify road risks and driver poor driving behaviors. Detected events trigger audio-visual alerts to provide real-time warnings to the driver, and event recordings can be uploaded to the cloud.

**Warning: The AI functions must be calibrated and configured strictly according to the installation and usage instructions; otherwise, proper functionality cannot be guaranteed.**

### 2.1.1 ADAS Features



LDW



HMW



FCW

### 2.1.2 DSC Features



Lens Covered



Yawning



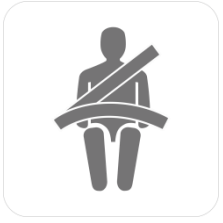
Handheld Devices



Smoking







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**Distraction** **No Driver** **Unfasten Seat Belt**

# 3. Specifications

| **Product Model: C6 Lite2.0** | |
|---|---|
| System | Embedded Linux |
| Languages | English<br>*Languages include interface language and voice prompts. TTS supports English. |
| **Audio-Visual** | |
| Recording | 2 video channels (default 2), 1 audio channel |
| Maximum Resources (with 2 AI channels) | 1080P@25fps(ADAS)+1080P@20fps(DSC)<br>Recommended Configuration (1080@20fps+1080P@15fps) |
| Video Encoding | H.264/H.265 optional (default: H.265) |
| Audio Compression Standard | ADPCM/G.711/G.726 optional (default: ADPCM) |
| CBR/VBR | VBR/CBR optional (default: VBR) |
| Audio | Built-in MIC |
| Speaker | Built-in speaker, 3W power, sound level not less than 70dB at 1m distance, adjustable volume |
| **Front Road Camera Parameters** | |
| Sensor Type | 1/2.9" 2MP CMOS sensor |
| Shutter Speed | 1/30s-1/100000s |
| Lens | 4mm focal length<br>HFOV: 89°; VFOV: 46°; DFOV: 106°; Tolerance: ±5° |

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| | |
|---|---|
| Minimum Illumination | Color: 0.05Lux/F1.2 |
| Lens Interface Type | Built-in lens |
| Wide Dynamic Range | Digital wide dynamic |
| Backlight Compensation | Supported |
| Signal-to-Noise Ratio (S/N) | ≥48dB |
| **Rear Cabin Camera Parameters** | |
| Sensor Type | 1/2.9" 2MP CMOS sensor |
| Shutter Speed | 1/30s-1/100000s |
| Lens | 2.2mm focal length<br>HFOV: 151°; VFOV: 84°; DFOV: 170°; Tolerance: ±5° |
| Lens Interface Type | Built-in lens |
| Wide Dynamic Range | Digital wide dynamic |
| Backlight Compensation | Supported |
| Signal-to-Noise Ratio (S/N) | ≥45db |
| Infrared Light | Supported, with built-in ambient light sensor for automatic on/off<br>*Day-to-night threshold: 4lux, night-to-day threshold: 8lux. Different devices may vary; subject to actual measurements. |
| **LED Status Indicators** | |

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| | |
|---|---|
| Power Status Light | Off/Green Light<br>Off: Indicates the device is not powered<br>Steady Green: Indicates the device is powered normally |
| Alarm Indicator Light | Off/Red Light<br>Off: Indicates the device has not generated an alarm<br>Red Light Flashes Three Times: Indicates the device has generated an alarm |
| GPS Indicator Light | Off/Red<br>Off: Indicates device GPS positioning function is normal<br>Steady Red: Indicates device GPS positioning function is abnormal (not positioned, module not connected, or module damaged)<br>Flashing Red (once per second): Indicates poor device GPS positioning quality |
| Network Status Light | Off/Red<br>Off: Indicates the device is connected to the server normally<br>Red Steady: Indicates the device connection to the server is abnormal<br>Red Blinking (once per second): Indicates the device has entered flight mode |
| WiFi Status Light | Off/Red/Green<br>Off: Indicates the device is in Disable or Client mode<br>Green Steady: Indicates the device is in AP mode<br>Red Steady: Indicates the device WiFi is abnormal |
| Recording Status Light | Off/Red<br>Off: Indicates the built-in camera or extended camera recording status is normal<br>Red Steady: Indicates the built-in camera or extended camera recording has stopped (including privacy mode) or has a fault<br>*Recording enable (main stream, sub-stream) is turned on, and it will alert if no recording is detected. Recording enable (main stream, sub-stream) is turned off and considered normal recording status. |

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| | |
|---|---|
| **Storage** | |
| Micro SD Card | Supports Micro SD-Card×2，(SDXC 32GB/64GB/128GB/256GB/512GB)<br>Minimum read/write speed requirement Class10, recommended Class10 and above |
| **Sensors** | |
| Six-Axis Sensor | Supports rapid acceleration, rapid deceleration, sharp turns, and collision detection |
| Ambient Light Sensor | Supports day-night switching for the cockpit camera |
| **Interfaces** | |
| IO Port | 2 inputs, 1 output |
| CAN | 1 channel (supports standard J1939 protocol)<br> Warning: Since vehicle manufacturers may customize some data fields, the actual data available is subject to practical testing. |
| USB | 1 channel, mini USB interface |
| Button | 1button<br>Press twice within 2 seconds to switch WIFI to AP mode<br>*For other button functions, refer to the product user manual |
| **Network** | |
| WIFI | Supports 2.4G (IEEE Std.802.11a/IEEE Std.802.11b/ IEEE Std.802.11g /IEEE Std.802.11n） |
| 4G | Supports plug-in SIM card（Nano SIM card）<br>North America:<br>LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71<br>WCDMA: B2/B4/B5<br>Europe & Asia:<br>LTE FDD: B1/B3/B7/B8/B20/B28A |

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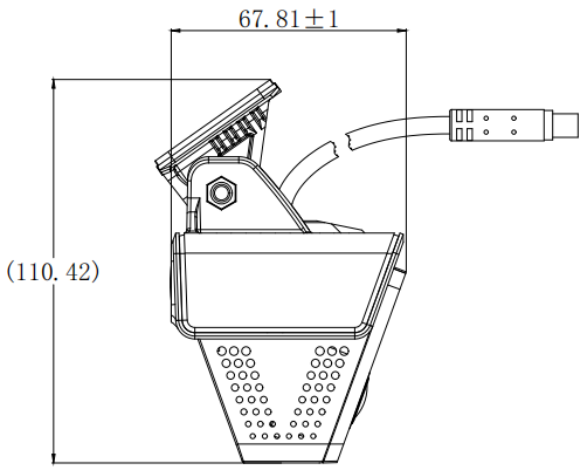
| | |
|---|---|
| | WCDMA: B1/B8<br>GSM: B3/B8<br>Latin America:<br>LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28<br>LTE TDD: B40<br>WCDMA: B1/B2/B5/B8<br>GSM: B2/B3/B5/B8<br> Warning: Requires the use of industrial-grade SIM cards (MP2), regular-grade SIM cards (MP1) are prohibited. The company is not responsible for issues caused by using regular-grade SIM cards. |
| **Positioning** | |
| GNSS | Supports<br>GPS L1 1575.42MHz<br>GALILEO E1B/C1<br>GLONASS L1OF 1602MHz<br>SBAS: WAAS, EGNOS, MSAS, GAGAN |
| **Power Related** | |
| Power | Supports 12V, 24V vehicles (no configuration needed) |
| Power Consumption | Device standby: 13.5V@4mA、27V@2mA<br>Device sleep (only 4G, GPS, MCU powered): 13.5V@27mA、27V@13mA<br>Typical power consumption（dual SD card installed, SIM card installed and dialing）: approximately 7W<br>Full load power consumption（dual SD card installed, SIM card installed and dialing, WIFI on, infrared light on）: approximately 11W<br>*All data are tested under specific laboratory conditions and may vary due to individual product differences, usage environments, and testing methods. |
| **Environment** | |

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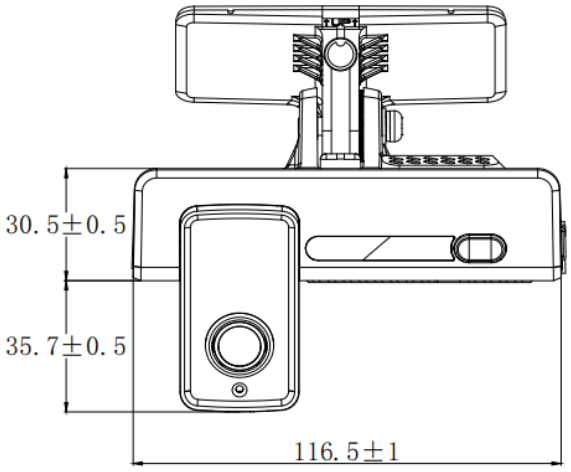
| | |
|---|---|
| Operating Temperature | -40℃~+70℃（-40°F~+158°F） |
| Storage Temperature | -40℃~+85℃（-40°F~+185°F） |
| Operating Humidity | 15% - 95% non-condensing |
| Storage Humidity | 15% - 95% non-condensing |
| Protection Level | IP30<br>*The main unit is not waterproof |
| **Dimensions & Weight** | |
| Dimensions L×W×H | 116.5 × 67.8 × 110.42 |
| Weight | Net weight (device main body): 313g<br>Gross weight (accessories and packaging): 610g<br>Tolerance ±10g |
| *Actual dimensions and weight may vary depending on configuration, manufacturing process, and measurement methods. | |
| **Packing List** | |
| C6 Lite2.0×1, standard power cable×1, hex screwdriver×1, mounting bracket×1, bracket bolts×1, pry bar×1, desiccant×1, alcohol pad×1 | |
| *Final contents may vary by region, subject to the unboxing results | |

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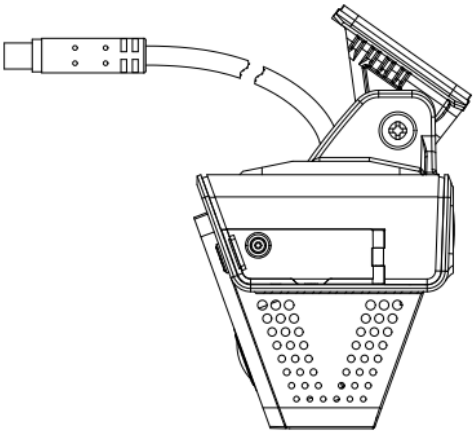
# 4. Dimension Diagrams (Unit: mm)



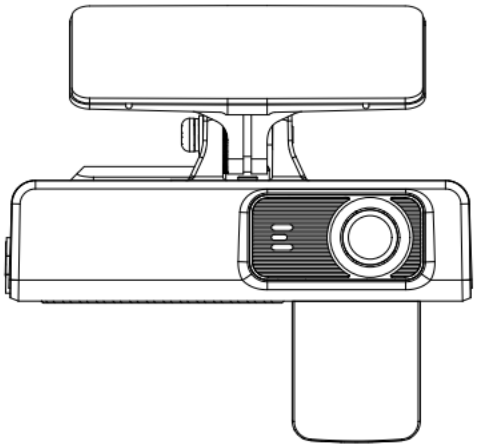

Left View




Front View



Right View



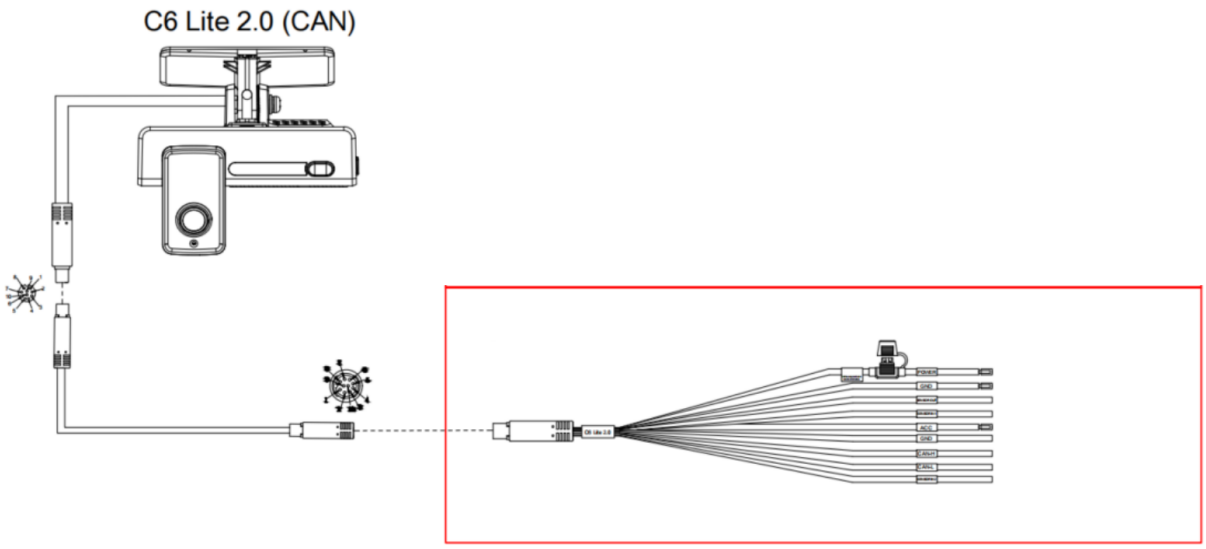
Rear View

# 5. System Connection Diagram

The standard shipment includes a standard power cable that supports ACC power connection to the vehicle.

## 5.1 CAN Model System Connection Diagram

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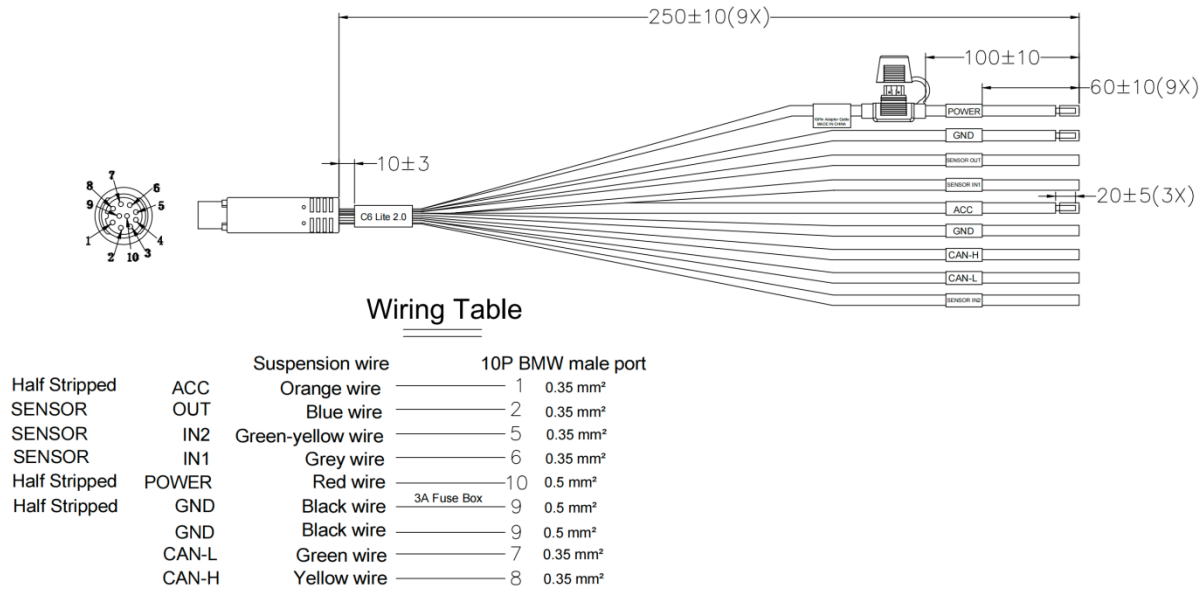



## 5.2 Wiring Interface Definitions

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### 5.2.1 CAN Model - Standard Wiring Interface Definition

#### 5.2.1.1 ACC Power Cable Interface Definition




Wiring Table

| | | Suspension wire | 10P BMW male port | |
|---|---|---|---|---|
| Half Stripped | ACC | Orange wire | 1 | 0.35 mm² |
| SENSOR | OUT | Blue wire | 2 | 0.35 mm² |
| SENSOR | IN2 | Green-yellow wire | 5 | 0.35 mm² |
| SENSOR | IN1 | Grey wire | 6 | 0.35 mm² |
| Half Stripped | POWER | Red wire | 10 | 0.5 mm² |
| Half Stripped | GND | Black wire (3A Fuse Box) | 9 | 0.5 mm² |
| | GND | Black wire | 9 | 0.5 mm² |
| | CAN-L | Green wire | 7 | 0.35 mm² |
| | CAN-H | Yellow wire | 8 | 0.35 mm² |

# 6. Special Instructions

1) This product requires professional installation to avoid risks such as electric shock, vehicle wiring damage, compromised AI performance, and device detachment.
2) The surface temperature of this product can exceed 60 degrees when exposed to direct sunlight. Avoid touching sun-exposed surfaces to prevent burns.

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