Streamax

2+1 Channels AI Dashcam

DC Max

Specification

(V1.1)

Contents

Preface

About The Specification

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Product Name Explanation

DC Max is an intelligent camera with two built-in cameras, featuring a road-side camera and a cabin-side camera. It is equipped with AI intelligent algorithms and can be used in combination with GT1 Pro to form a professional vehicle connection visual solution.

Symbol Explanation

The following symbols are used to categorize and explain potential hazards that may arise from improper operation

Symbol	Explanation
	**Warning:** Conditions that could jeopardize the safety of the user or cause injury
	**Important:** Conditions that may lead to data corruption or damage to the device's firmware or hardware
	**Note:** Additional information, explanations of terms, and other relevant details

Abbreviation Explanation

Acronym	Full Name
ADAS	Advanced Driver Assistance System
DSC	Driver Safety Cockpit
DMS	Driver Monitoring System
LDW	Lane Departure Warning
HMW	Headway Monitoring Warning
FCW	Forward Collision Warning
BSD	Blind Spot Detection System

Product Overview

Product Introduction

DC Max is a dual-lens dashcam with built-in AI algorithms, designed to pair with the GT1 Pro. Both its inward-facing and outward-facing lenses feature ultra-wide-angle fields of view, supporting video recording up to 4MP resolution. The outward-facing camera is equipped with black light capability, enabling superior performance in low-light environments. When integrated with the GT1 Pro and other extended cameras, it not only serves as a local storage hub for video data but also enhances driving safety through AI-powered alert functions such as ADAS, DMS, and BSD, helping drivers avoid potential hazards. Its compact body design ensures easy installation without obstructing the driver's field of view.

Product Features

- **Exceptional Night Vision Performance**

Built-in 4MP front-road black light, with a wider horizontal field of view and clearer images at night.

- **High-Definition View With No Blind Spots**

Built-in 4MP rear-facing cabin lens, delivering higher-definition image quality and a wide viewing angle that eliminates blind spots.

- **Multi-Channel Recording Coverage**

Supports external connection of one AHD channel，When cascading GT1 Pro, up to 6 channels video recording is supported.

- **Reliable Video Recording**

Built-in eMMC on-board chip-level storage (up to 256GB) ensures stable and secure storage of critical footage, preventing data loss.

- **Versatile Storage Modes**

Supports 1* Micro SD card (up to 1TB) alongside internal eMMC storage, with simultaneous recording of main and sub-streams.

- **Robust Data Security**

Features AES256 encryption and TLS1.3 protocol to fully protect data from unauthorized access.

- **Enhanced Privacy Protection**

Magnetic suction DSC lens privacy cover effectively protects driver privacy when the vehicle is parked.

- **Clear Intercom Audio**

Echo cancellation algorithm significantly improves two-way intercom quality for smooth, noise-free communication.

AI Features

DC Max uses advanced video analysis technology and machine vision to automatically detect road hazards and unsafe driver behaviors. The system continuously monitors and triggers both visual and auditory alerts to remind the driver to pay attention to safety. Additionally, relevant alarm footage is automatically uploaded to the cloud through GT1 Pro for real-time monitoring and review.

➢ **ADAS Features Diagram**

		
LDW	**HMW**	**FCW**

➢ **DSC& DMS Features Diagram**

			
Lens Covering	**Yawning**	**Phone**	**Smoking**

			
Distraction	**No Driver**	**Seat belt**	**Fatigue Driving**

	The built-in DSC algorithm may be slightly less accurate than the DMS algorithm in detecting Fatigue Driving. To use the DMS algorithm, a compatible DMS camera, such as the C29N, is required

Specification

General	
Product Model	DC Max
System	Embedded Linux
Language	● Default: English ● Options: Chinese, Chinese (Traditional), English, Spanish, Spanish (Latin American), Portuguese (Latin American), French, Russian and Japanese * The language includes both interface language and voice reminders. TTS supports only Chinese and English
Video & Audio	
Video & Audio Recording	DC Max+GT1 Pro： 6-channel video (default: 2 channels; extension: 1 channels+3 channel IPC) + 1-channel audio
Max. Capability	● 4 ch- AI(ADAS+DSC+2*BSD or ADAS+DMS+2*BSD) 1080P@20fps（Built-in Black Light ADAS）+ 1080P@15fps（Built-in DSC）+ 1080P@15fps(AHD)+3*1080P@20fps（IPC） ● Non-AI PAL:1520P@20fps+1520P@20fps+1080P@25fps (AHD)+3*1080P@25fps（IPC） NTSC:1520P@20fps+1520P@20fps+1080P@30fps (AHD)+3*1080P@25fps（IPC）
Image Setup	Adjustable brightness, chroma, contrast, color saturation, and sharpness
Video Coding	Default: H.265 Options: H.264 and H.265
Audio Compression Standard	Default: ADPCM Options: ADPCM、G711、G726
Encoding Standard	Default: VBR Options: VBR and CBR

Microphone	Built-in
Loudspeaker	Built in. Power: 3W, with adjustable volume, not less than 70 dB at 1 m distance
Parameters of road facing lens	
Sensor Type	1/1.79" 4-megapixel CMOS sensor
resolution ratio	2688 (H) *1520 (V)
Shutter Speed	1/25s~1/20000s
Lens /FOV	Focal length: 3.7 mm HFOV: 127.4°±3°; VFOV: 69.2°±3°; DFOV: 149.2°±5°
Minimum Illuminance	Color: 0.01 Lux/F1.7
Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR
Backlight Compensation	AI-ISP，Support black light
Signal-to-Noise Ratio (S/N)	≥48dB
Parameters of driver facing lens	
Sensor Type	1/3" 4-megapixel CMOS sensor
resolution ratio	2688 (H) *1520 (V)
Shutter Speed	1/25s~1/20000s
Lens/FOV	Focal length: 2.2 mm FOV(H)=130.5±3° FOV(V)=74.6±3° FOV(D)=153.1±5°
Lens Mount	Built-in lens
Wide Dynamic Range (WDR)	Digital WDR
Backlight Compensation	Supported
Signal-to-Noise Ratio (S/N)	≥42dB
Infrared	Supported. The built-in environmental light sensor turns on/off

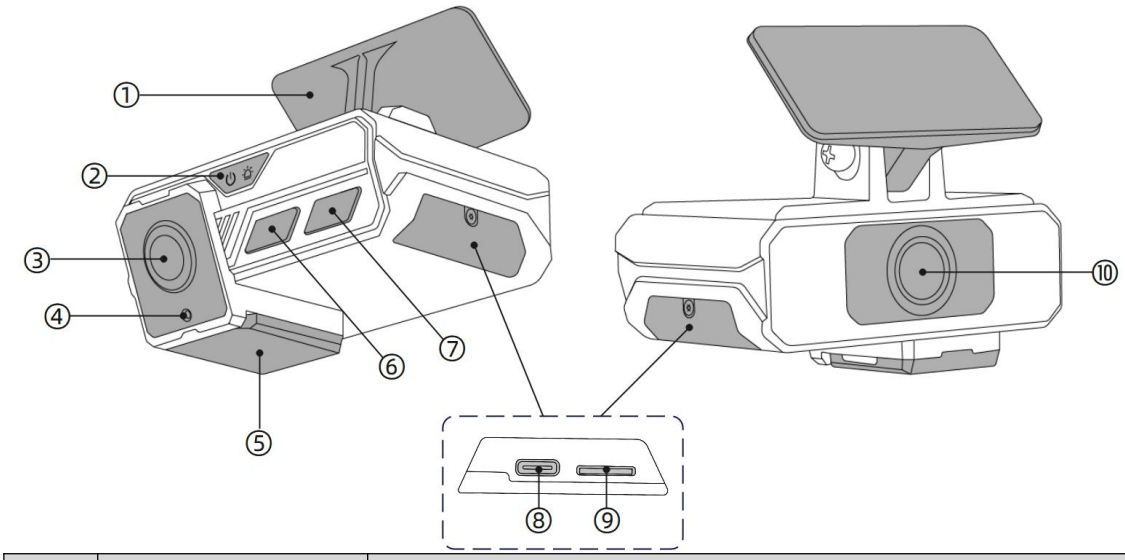
	the infrared automatically * Threshold: 4 lux from daytime to night, and 8 lux from night to daytime. There may be slight variations depending on the device. Please refer to actual measurements
LED Indicator Status	

Indicator Light	Icon	Off	On/Flashing
Power/communication indicator		No power supply	Power supply normal and normal communication with GT1 Pro Power supply normal but abnormal communication with GT1 Pro
Alarm/Recording Status Indicator		No alarm currently and normal recording	Recording stopped / Malfunction (Flashing) Alarm triggered

Storage	
Micro SD card	Micro SD card×1, (SDXC 64GB/128GB/256GB/512GB/1TB) Read/write rate: Class 10 or above is recommended
Built-in Storage	Built-in eMMC storage，optional 128GB/256GB
Sensor	
Environmental Light Sensor	Supported, used as the cockpit camera, subject to day/night switching
Port	
RS485	1-channel (for R-Watch)
USB	1 × USB Type C Port
Function button	2*Button One is dedicated to SOS, and the other is a function button. To switch Wi-Fi to AP mode or Privacy mode on/off * For more details on the use of this button, please refer to the product's user manual
Power related	
Power supply	9V and 16V (Powered by GT1 Pro)
Power consumption	Typical power consumption (with dual storage installed/infrared lamp turned on) :5.4W

	Full-load power consumption (with dual storage installed/IPC and AHD connected/connected R-Watch/infrared lamp turned on):6.6W
Notes: The above data are test data obtained in a specific environment in the laboratory, and may vary with the individual product differences, service environment, and testing methods.	
Environment	
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating Humidity	15~95% non-condensing
Storage Humidity	15~95% non-condensing
Dimensions and Weigh	
Dimensions	Dashcam: 95 mm×45.9 mm×75 mm (without bracket) Deviation: ±2mm Package: 201mm×165mm×116mm Deviation: ±3mm
Weight	Net weight (device only): 275g Gross weight (including accessories and package):677g Deviation: ±10g
Actual dimensions and weight may vary slightly due to product differences, manufacturing processes, and testing methods.	
Package Contents	
DC Max ×1, Extension wire ×1, Privacy cover × 1,Mounting bracket ×1, Bracket bolt ×1, Pry tool ×1, Desiccant ×1, Alcohol wipe ×1 * Contents may vary depending on the region and specific requirements	

Product Appearance and Component Names

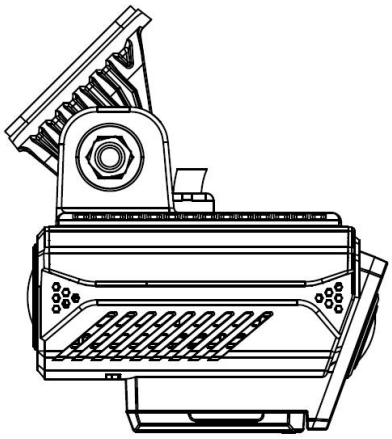


No.	Name	Description
1	**Installation Bracket**	A mounting bracket designed to secure the DC Max installation. It is equipped with 3M adhesive for firm attachment to glass, is compatible with various vehicle cockpit interiors, and is easy to install. The bracket's adjustable angle ensures an optimal field of view
2	**Status Indicator Light**	<table><tr><th>Indicator Light</th><th>Icon</th><th>Off</th><th>On/Flashing</th></tr><tr><td>Power/communication indicator</td><td>⏻</td><td>No power supply</td><td>Power supply normal and normal communication with GT1 Pro Power supply normal but abnormal communication with GT1 Pro</td></tr><tr><td>Alarm/Recording Status Indicator</td><td>🔔</td><td>No alarm currently and normal recording</td><td>Recording stopped / Malfunction (Flashing) Alarm triggered</td></tr></table>
3	**Cabin-facing Camera**	A rear-mounted, ultra-wide-angle cockpit camera that supports up to 1520P HD recording. The main unit integrates a DSC algorithm capable of detecting various driver behaviors
4	**Ambient Light Sensor**	It senses the lighting environment in the cockpit and activates the built-in infrared fill light to provide illumination under low-light or nighttime conditions, ensuring that the camera can capture clear videos in various lighting environments.
5	**Magnetic**	Drivers can install it on the side camera of the cockpit according to their driving needs to protect their privacy.

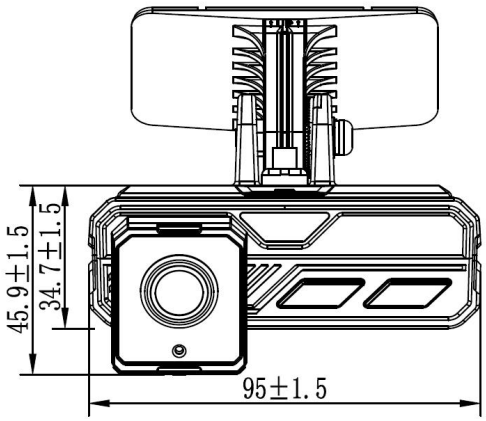
	Privacy Cover	
6	**Alarm Button**	A single click can trigger an emergency alarm.
7	**Function Button**	A single click can switch the AP/Wi-Fi mode of the cascaded GT1 Pro; A long press can turn on/off the privacy mode of DC Max. *The key functions can be custom configured in the operation and maintenance software.
8	**Type-C Port**	Primarily used for maintenance purposes such as reading videos, firmware updates, device configuration, or troubleshooting.
9	**Micro SD Slot**	Micro SD card installation position, supporting a maximum capacity of 1TB, for video data storage.
10	**Road-facing Camera**	Equipped with a wide-angle front lens that supports up to 1520P HD recording. The main unit includes an ADAS algorithm capable of detecting road conditions.

Product Dimensions Diagram

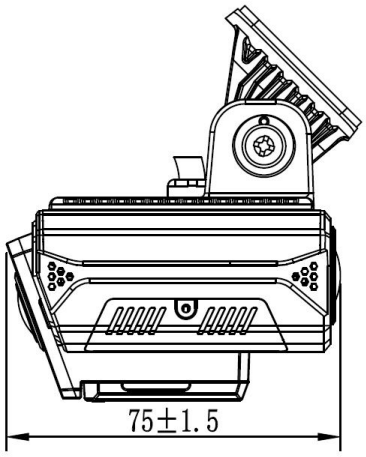
(Unit：mm)



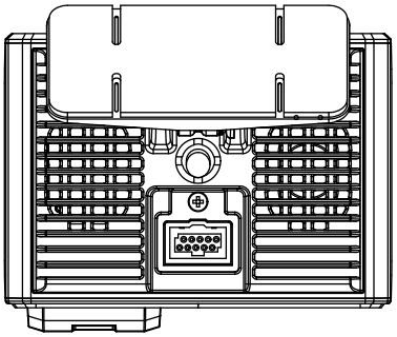
Left View



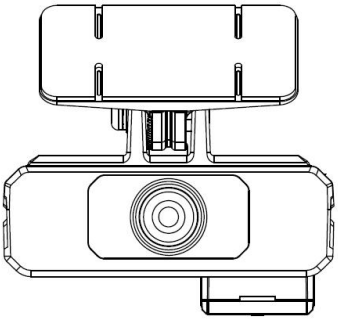
Front View



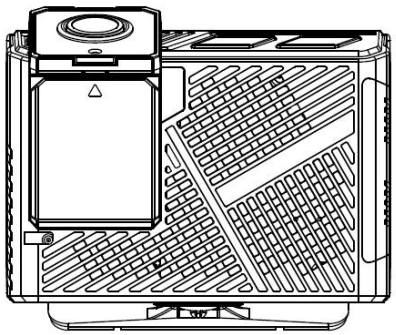
Right View



Top View

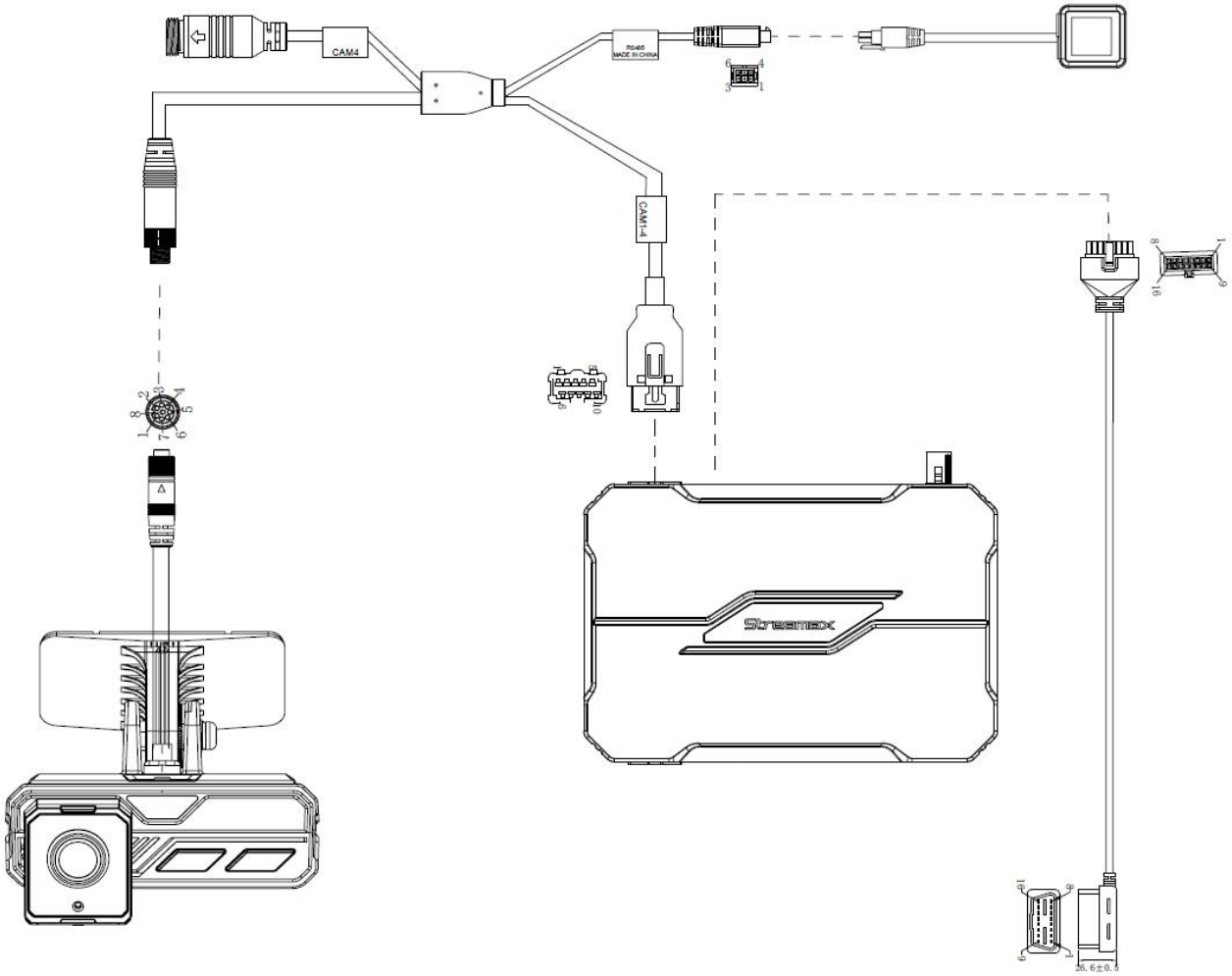


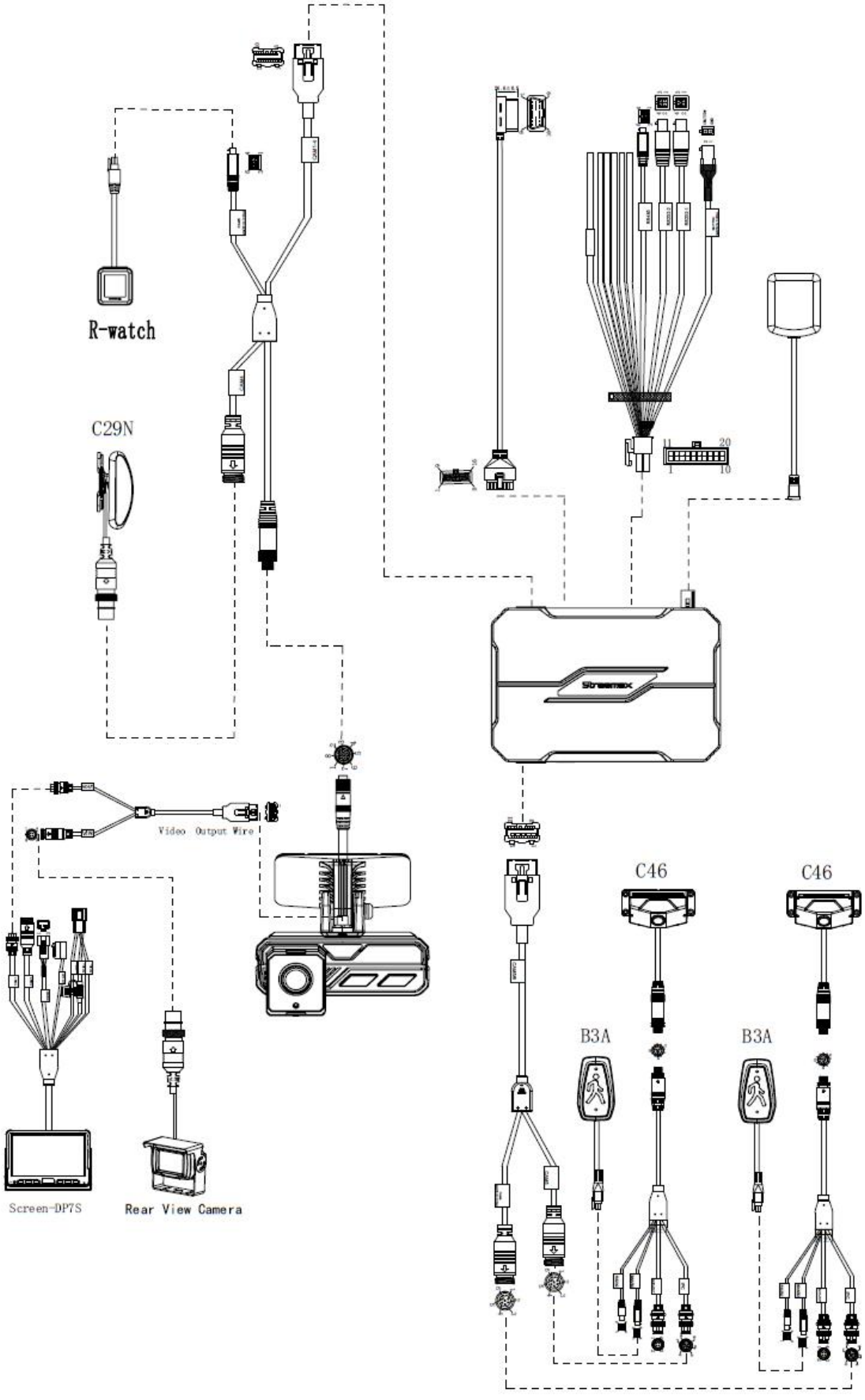
Rear View



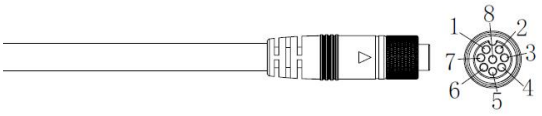
Bottom View

System Connection Diagram

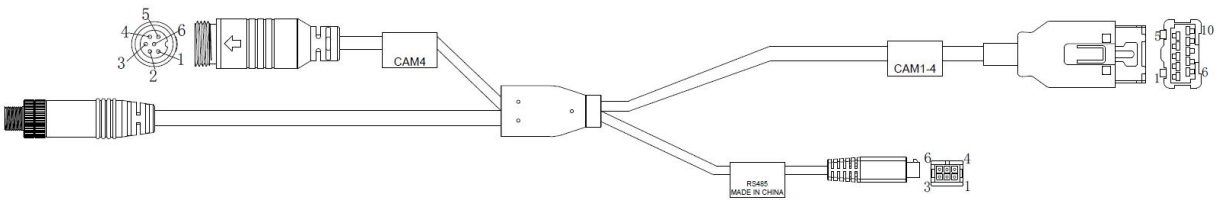



R-watch
C29N
Video Output Wire
Screen-DP7S
Rear View Camera
C46
C46
B3A
B3A

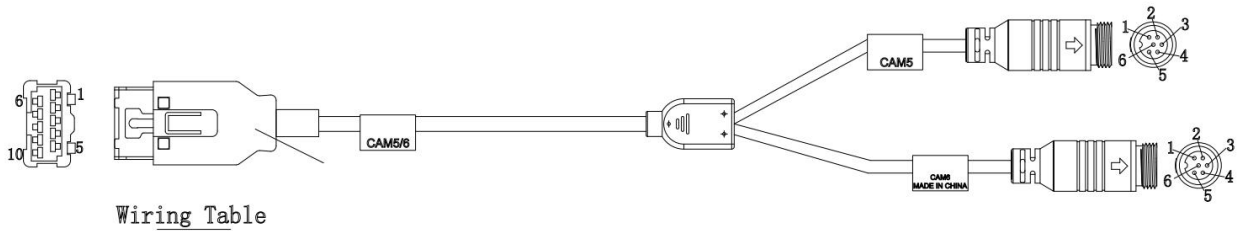
Cable Details



DC Max Tail Wire



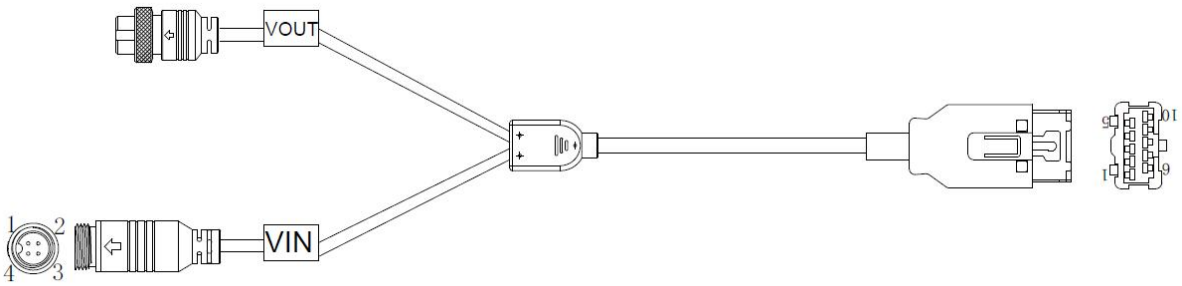
DC Max Extension Wire



Wiring Table

10P Male Head	6P DIN Male Head(VT_DCAI_03)
9	1 (TXN) Blue Wire
8	2 (TXP) Purple Wire
5	4 (RXN) Blue-White
4	5 (RXP) Purple-White
10	3 (12V) Brown Wire
1	6 (GND) Gray Wire
10P Male Head	**RS765-6 Aviation Male Connector(CAM4)**
7	1 (TXN) Orange Wire
6	2 (TXP) White Wire
3	4 (RXN) Green Wire
2	5 (RXP) Yellow Wire
10	3 (12V) Red Wire
1	6 (GND) Black Wire
Shell	Shell Ground Wire

GT1 Pro CAM5-6 Video Extension Cable– Optional



DC Max Video Output Cable – Optional

Special Instructions

- This product requires installation by professionals; otherwise, there is a risk of electric shock, damage to the vehicle wiring, impact on AI performance, and device detachment.
- When used under direct sunlight, the surface temperature of this product may exceed 60℃. Please avoid touching the sun-exposed surface to prevent burns.
- The extended AHD channel does not support audio input.
- The extended screen output does not support audio, and the DC Max also does not support power supply to the screen.