



CA42 Kit (CA42 & CA42B) Specification

Wireless HD IPC

I. Main Features:

Streamax 1080P HD on-board video telematics camera features easy installation and compact design, and is applicable to trucks, trailers, cranes, forklifts, harvesters and other vehicles. There is no complicated wiring required if use with our HD waterproof wireless receiver box.

- On-board transmission range up to 120 meters or more (300 meters for open environment)
- Support PAL / NTSC Standard
- Featured with strong night view
- With wireless automatic frequency hopping function
- Power supply: DC8-32V
- Can be conveniently used with rechargeable battery
- Waterproof, dustproof; IP69K

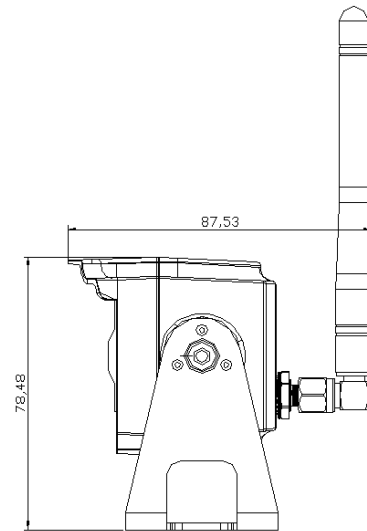
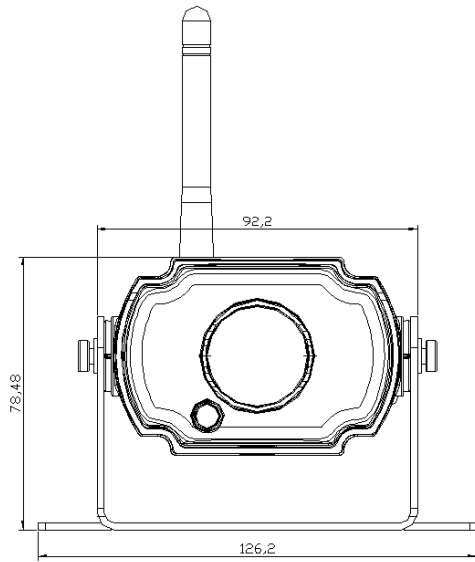
Translated with www.DeepL.com/Translator (free version)

II. Specification:

Product Model	CA42	
Specification	Sensor	1/2.9" 2MP CMOS
	Resolution	1920(H)x1080(V)
	Minimum Illumination	Color: 0.1Lux/F1.2; Black&White: 0Lux(IR LED ON)
	Electronic Shutter	1/60Second-1/5000Second
	Day/Night shift Mode	Auto IR-CUT
	Wide Dynamic	DWR≥80db
	Black-light Compensation	Support
	S/N	≥42db

	IR	<15m
	Lens	2.8mm M12 Lens, Fixed Aperture F2.2 (FOV H: 104° V: 55°)
Video Format	Video Compression Standard	H.264
	Image Resolution	Main Stream:1080p @ 30fps
	Audio	N/A
Image	Maximum Image Size	1920x1080
	Highest Frame Rate	30FPS
	Image Setting	Chroma, Contrast, Saturation, Acutance
Transformation Performance	Utility Frequency	2403Mhz——2478Mhz
	Transmission Range	300M(Open Environment)
	Power	16dbm±1
	Radio frequency (Bandwidth)	12Mbps
	Spread Spectrum	Pwifl OFDM
	Video Latency	Within 200ms
Others	Operational Temperature	-30°C-- +70°C
	Operation Humidity	0% - 90%
	Power Supply	DC8-32V
	Waterproof Class	IP69K
	Installation Features	Mesa installation or hoisting mounting
	Adjustable Angle in Vertical	0°-- 270° (Mesa installation、hoisting mounting and airplane mode)
	Power Comsumption	Infrared off 3.3W;Infrared on 4.2W (Added thermal defogging module 3W)
	Dimention	L92.50 x W60 x H78.5mm

III. Structure:



I

V.Rendering:



HD Wireless Video Telematics Receiver

I. Main Features:

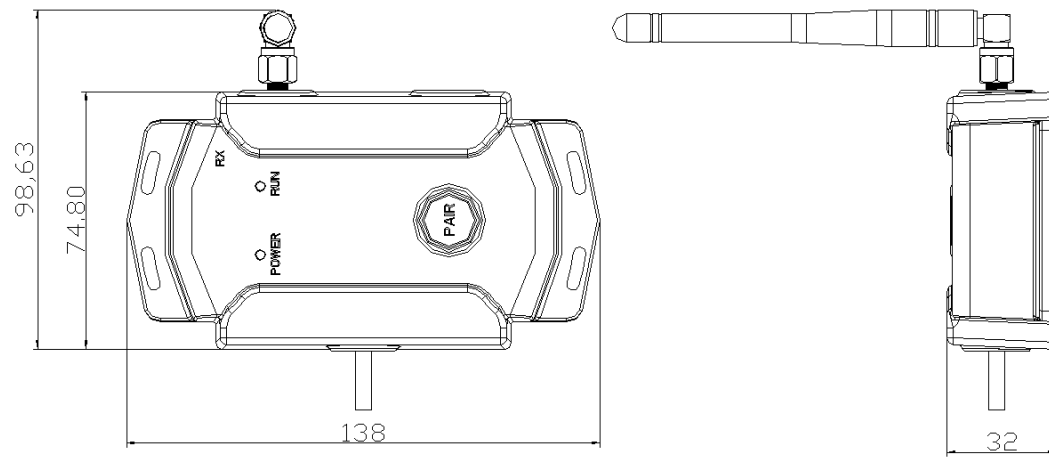
Streamax waterproof on-board video telematics receiver is a power supply device applied to supporting video telematics system. You can easily install it on the vehicles in various scenarios without complicated power wiring

- 1920*1080 @ 30fps;
- DC8-32V
- Single-channel receiver
- With wireless automatic frameskip
- Maximum video output AHD 1080P
- Support 1080P series wireless camera
- Waterproof, dustproof, IP69K

II. Specification:

Product	CA42B	
Video Format	Video Compression Standard	H.264
	Video Output format	AHD (Impedance75Ω)
	Image Resolution	Main stream:1080p @ 30fps
	Audio	N/A
Image	Maximum Image Size	1920x1080
	Highest Frame Rate	30fps
Network	Utility Frequency	2412Mhz——2472Mhz
	Transmission Range	300M(Open Enviroment)
	Receiver sensitivity	-86DB
	Radio frequency (Bandwidth)	12Mbps
	Spread Spectrum	Pwif OFDM
	Video Latency	Within 200ms
Others	Operational Temperature	-20°C-- +70°C
	Operation Humidity	0% - 90%
	Power Supply	DC8-16V
	Waterproof Class	IP69K
	Installation Features	Mesa installation
	Power Consumption	MAX:5.6W
	Dimension	L92.50 x W60 x H78.5mm

III. Structure



Rendering:



HD wireless video telematics supporting battery box

I. Main Features:

Streamax waterproof on-board battery box is a power supply device applied to supporting video telematics system. You can easily install it on the vehicles in various scenarios without complicated power wiring

- Can be adsorbed in any position of the vehicle with a magnet at the bottom
- Power supply up to 12 hours or more with its large power capacity
- Compatible with 12V and 24V charging range according to the vehicle voltage output
- Supporting 1080P wireless camera
- Waterproof, dustproof, IP69K
- Support simultaneous charging and discharging function as energy storage device

II. Specification:

Product Moduel		
Battery Spec.	Battery Capacity	14000MA/3.65V
	Charging Voltage	12V ~ 24V
	Charging Current	1.8MA (12V)
	Charging time	4H
	Discharge voltage	9.3V ~ 14.6V
	Discharge time	14H (305MA max. current IR light off) 9.5H (447MA max. current IR light on)
	Charging temperature	0°C ~ 45°C
	Discharge temperature	-20°C ~ 60°C
	Storage temperature	-20°C ~ 45°C (three months) -20°C ~ 25°C (One year)
	Waterproof grade	IP69K
	Weight	0.8KG
	Installation	Magnetic mounting method
	Dimension	L152.50 * W94.5 * H48.5mm

FCC Warning Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Reorient or relocate the receiving antenna.
- - Increase the separation between the equipment and receiver.
- - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- - Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

CA42kit2.0 wireless camera installation and debugging guide

1. CA42Kit2.0 wireless camera model adaptation situation

Due to the large differences in the length and width of the market, according to different models, not only the installation position needs to be flexible, but also to ensure that the image of the wireless color camera is normal. In order to enable users to quickly find the best installation location and quickly complete the installation quickly, we have studied the installation of the following models and output the optimal solution of the installation scheme, hoping to provide guidance to the market end. The details are given as follows:

No.	classify	Applicable models	Model specifications	Screenshots of vehicles
1	Body height is more than 3 meters, vertical in front of the car	Large trailer container truck (Front and carriage are separable)	body of car Length: 1,500 cm Width: 245cm Height: 440cm	

2. CA42kit2.0 wireless camera installation position is recommended

(1) Installation guidelines for the use of towing vans

① Vehicle specification: length: 1500cm width: 245cm height: 440cm



② The rear location of the lens installation point selection and lens adjustment

a. CA42 2.0 Installation Location:

The best installation position is located in the middle of the top of the car. When the actual installation, the physical interference caused by the door should be considered. In this verification, the recommended installation position 1 is 440cm from the vertical height and the vertical distance from the ground; the left and right movement range $\pm 15\text{cm}$ can obtain good image effect.

Note: If the blind zone algorithm is required, the camera must be installed in the recommended installation position 1



(This drawing is only used as the selected point of the installation position and does not represent the real vehicle)

b. Lens Angle Adjustment

The wireless camera lens needs to be adjusted up and down to the best position to get the best image effect.

As shown in the following figure, under the single channel picture, adjust the picture to the following position to ensure the current picture. The lower part of the picture reserved a small number of body photos, you can have the best picture.

Installation position 1 is the following effect below:



Installation position 2 is the following effect below:



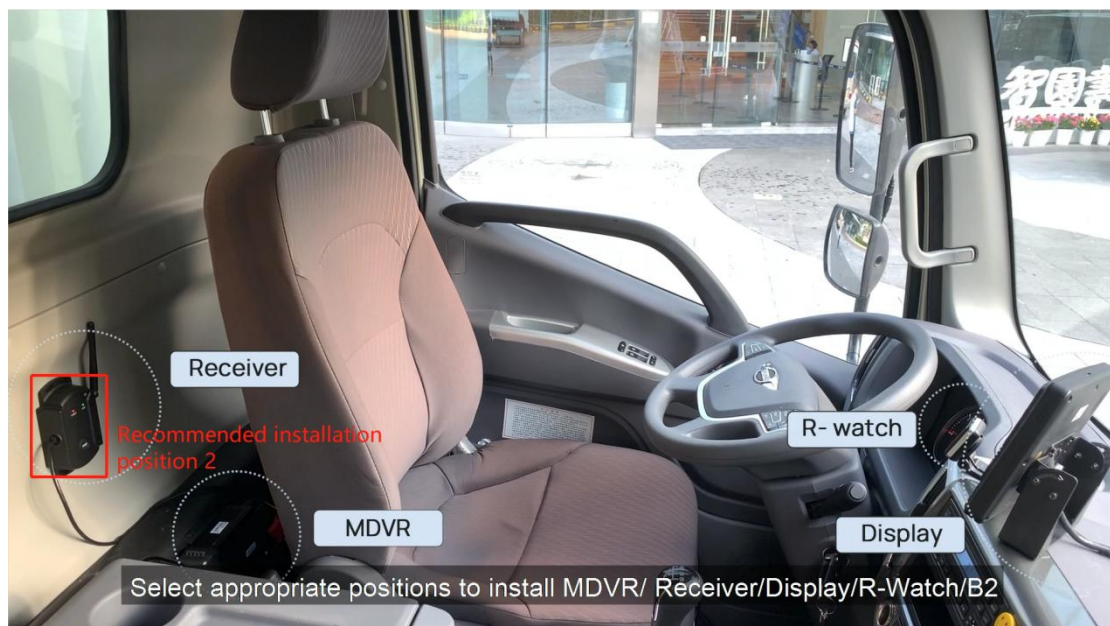
Note: If other obstacles are installed on the rear of the car, such as lift, spare tire, etc., in order to ensure that the lens sees the whole scene, you can consider slightly raising the lens Angle.

C. CA42B 2.0 Installation Location:

Recommended installation position 1, the center console of the vehicle cab should be fixed on the surface with 3M glue. The installation effect is as follows:

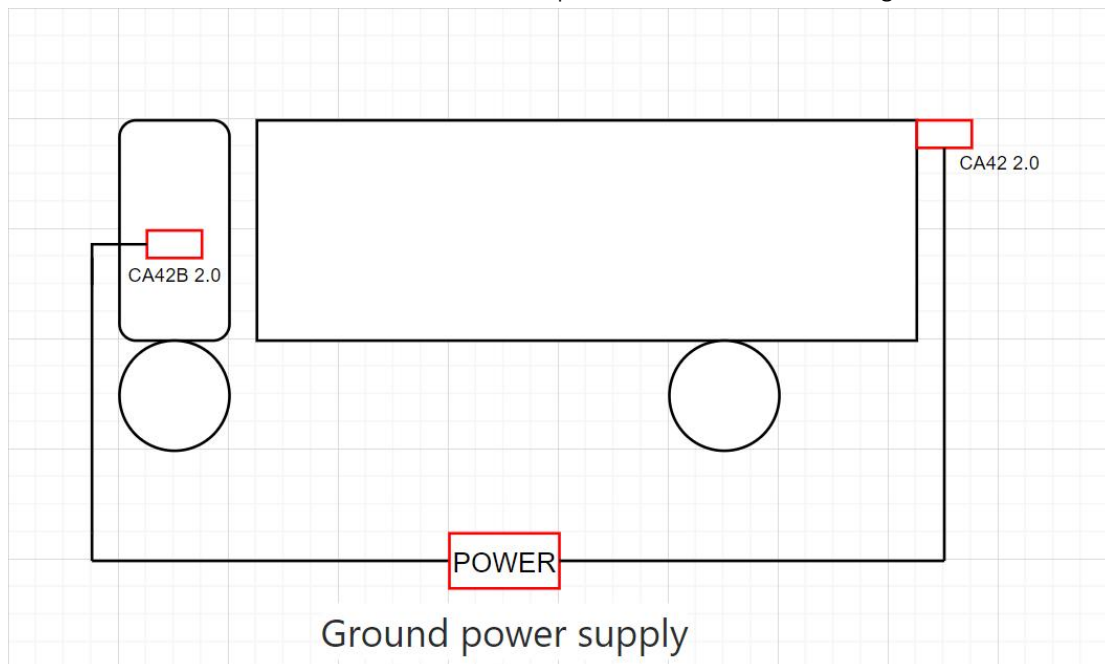


Recommended installation position 2. It is recommended to be installed on the wall of the car body behind the driver, which needs to be fixed on the wall with 3M glue. The installation effect is as follows:



Commissioning Guide:

1. The wireless camera set CA42kit2.0 currently uses the power supply mode of the vehicle itself, because the automatic matching function of the device must require that the transmitter and the receiver end be the same power source. The following illustration shows:



2. Using the vehicle power supply mode, the wireless camera CA42 2.0 can directly take power from the car, such as taillight or width light for power supply. However, such power supply has intermittent power supply, which needs to attract the attention of users. The wireless receiving box CA24B needs to be connected to the DVR to supply power and video to the box. At the same time, special attention should be paid to that the signal line and signal ground line of the wireless receiving box need to be connected to the power supply terminal and the power source corresponding to the DVR respectively.

3. After the wireless camera CA42 2.0 and the wireless receiver CA42B 2.0 are powered on at the same time, the RUN state of the device will flash, and the successful pairing can be achieved around the 5S clock. After successful pairing, the RUN state will be in the normal bright state, and at the same time, the display device connected with the wireless receiving terminal can achieve the smooth drawing. The following illustration shows:

