

TRAILER Eyes® B2

Our concept : Instant Wireless Monitoring System

Can be used in
barns, horse trailers,
outbuildings, offices, pastures etc.

Long range up to 1200 ft,
Practical, Mobile, Durable,
& Affordable.



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TRAILER Eyes® B2

5.8 GHz Instant Wireless Monitoring System

Instruction Manual



Easy setup
No tools required
Minimal interference
Range up to 1200 ft
Can be used everywhere!

Trailer Eyes® B2 Built for barns, outbuildings, and trailers

Antenna Cable ----- 5 meters / 16.4 Feet
Signal strength gain ----- 7 Db.
Weight----- 14 Oz. With cable

Trailer Eyes® B2 set Unit weight

Net weight ----- 4 Lb. 8 oz.
Gross weight ----- 5 Lb. 4 oz.

Warranty

- Trailer Eyes® products are guaranteed with a one year warranty, which covers workmanship and materials. The warranty is limited to repairs or replacement.
- This warranty becomes void if the product shows evidence of having been misused, mishandled or tampered with contrary to the applicable instruction manual.
- Normal cosmetic and mechanical wear and tear are not covered under the terms of this warranty.
- The warranty does not cover the shipping cost, insurance or any other incidental charges.
- Call Trailer Eyes® before sending any product back for repair. We will issue you a return authorization number and the instructions for warranty service. We will need a copy of the purchase receipt and a brief explanation of the problem.
- To the maximum extent permitted by applicable law, Trailer Eyes®, its subsidiaries and licensors hereby disclaim all liability arising out of any use of this product and its contents.

Email Tech Support : info@TrailerEyes.com
Phone Tech Support : 1-630-513-9591
(Monday - Friday, 9 am - 5 pm CST)

www.TrailerEyes.com
Trailer Eyes / Mark Point Corp.
St. Charles, IL USA

Trailer Eyes® B2

Built for barns, outbuildings, and trailers

Weight----- One pound
Up to 8 cameras can be hosted by the monitor

Camera

Transmission Frequency----- ISM 5.8 GHz
Transmission Power----- 200 MW
Operating Frequency----- 5.645GHZ, 5.665GHZ, 5.685GHZ,
5.705GHZ, 5.885GHZ, 5.905GHZ,
5.925GHZ, 5.945GHZ
Unobstructed Effective Range---- 1200 ft. Maximum
Operating Temperature ----- 10 ~ +50(Degree C) / +14~ +122
(Degree F)
Storage Temperature ----- 20 ~ +60(Degree C) / -4 ~ +140
(Degree F)
Operating Humidity ----- ≤85%RH
Imaging Sensor Type ----- CMOS Color
Picture Total Pixels ----- PAL: 628×582 Pixels , NTSC: 510×492
Pixels
Horizontal Resolution ----- 380 TV Lines
View Angle ----- PAL 60°; NTSC:40° Lens: 6.0mm
Minimum Illumination ----- 0Lux
Night Vision Range ----- 30 Ft.
Bandwidth----- 18M
Consumption Current ----- 12V 130 mA(IR OFF) & 12V 280mA
(IR ON)(Max.)
Power Supply----- DC 9V to 12V
Dimensions ----- 2 ¼" Dia. x 3 ½ L" (Without antenna
and power cord)
Weight ----- 9 oz. (Excludes clamping base)

Booster antenna (Two antennas are included)

Transmission Frequency----- ISM 5.8 GHz
Weather proof magnet base with permanent mount fitting.
Antenna base dimensions ----- 4&1/4" Dia. X 2&1/2" H
Antenna rod ----- 11" Long x ½" Dia.

Trailer Eyes® B2

Built for barns, outbuildings, and trailers

Table of contents

- Safety Disclaimer ----- 1
- Safety Warning ----- 2
- Performance Disclaimer ----- 2
- Parts Included and Features ----- 3
- Setup Instructions ----- 4
 - * Trailer Use ----- 4
 - Camera ----- 4
 - Monitor ----- 6
 - * Barn and outbuilding use ----- 9
 - Camera ----- 9
 - Monitor ----- 9
- Best Result Tips ----- 10
- Troubleshooting ----- 11
- Specifications ----- 11
- Monitor ----- 11
- Camera ----- 12
 - Booster antenna ----- 12
- Warranty ----- 13

Safety Disclaimer

This product should not be used by the driver of a motor vehicle while driving. Always keep your hands free to operate a vehicle while driving. Obey all local laws. Your first consideration while driving should be safety. To the maximum extent permitted by applicable law, Trailer Eyes®, its subsidiaries and licensors hereby disclaim all liability arising out of any use of this product and its contents.

Safety Warning

- This product should not be used by the driver of a motor vehicle while driving.
- Please obey your local traffic laws and codes. Drive safely.
- Notice to drivers in California and Minnesota: State law prohibits drivers in California and Minnesota from using suction mounts on their windshields while operating motor vehicles. Other mounting options should be used. Trailer Eyes® does not take any responsibility for any fines, penalties, or damages that may be incurred as a result of disregarding this notice (See California Vehicle code section 26708(a); Minnesota Statutes 2005, section 169.71) Other states may have passed a similar law; please check your state's traffic laws and codes.

Performance Disclaimer

5.8 GHz wireless video technology has eight channel frequencies: The FCC has only opened these eight channels for public use. As a result, any brand's 5.8 GHz wireless video monitor can receive the signal sent from this unit. Also, this unit's monitor can receive another camera's signal (signal interference). Please be warned that there is no guarantee of your privacy while you are using this unit. Anyone with a 5.8 GHz wireless monitor within 1200 ft. range of this unit's camera can receive the signal from this unit.

Troubleshooting

Problem	Possible Solution
No camera picture	<ol style="list-style-type: none"> 1. Check all connections and power. (In order to have power in the lighter socket, some vehicles need to have the engine turned on.) 2. Make sure the camera and monitor are switched to ON. 3. If you are using a 9V battery to power the camera, change the battery. 4. Camera and monitor are within range.
Picture Interference	<ol style="list-style-type: none"> 1. Reposition the monitor's antenna. 2. Mount the camera next to an open window or panel. 3. Drive the vehicle and the trailer for a short distance. Once away from a heavy interference area, the picture will improve.

Specifications

Monitor

Monitor Type----- Color TFT-LCD
 Screen Size----- 7"
 Wireless Frequency----- 5.8 GHz
 Supply Voltage----- DC12V, Ripple: <120mVp-p
 Consumption Current----- 320 mAh.
 Operation Temperature----- 14F~+140F , 10 C--50 C.
 Operation Humidity----- 85% RH (Max)
 Received Frequencies----- 5.645GHZ, 5.665GHZ, 5.685GHZ ,
 5.705GHZ, 5.885GHZ, 5.905GHZ,
 5.925GHZ, 5.945GHZ
 Color configuration----- RGB. 480X234 delta
 Video System----- PAL/NTSC
 Dimensions----- 7" x 4&3/4" x 7/8", Excludes base
 and power cord

Best Result Tips

Minor interference will occur when using open commercial 5.8 GHz video signal technology. The running engine and motor will generate some interference and show in the monitor. Overall, 5.8 GHz channels have much less interference than 2.4 GHz. channels.

The range of the signals is usually stated based on line of sight. This means the antenna of the camera can see the antenna of the monitor. The wireless signal will need about a 30 ft. diameter clearing between antennas for maximum range. We strongly recommend the antenna be mounted as high as possible. The signal power will be reduced by obstacles such as trees, bushes and buildings; the more obstacles in between the less distance can be achieved. Metal and concrete are the hardest for the signals to penetrate.

For best performance, please consider these few guidelines:

- The distance between the monitor and camera
 - Straight line, clear view, no obstacles in between, up to 1200 feet.
 - When the camera is in the trailer and the signal needs to go through layers of metal and the antennas can't see each other; up to 60 feet.
- A fresh 9V battery to provide adequate power to transmit the signal. A name brand alkaline 9V battery can operate the camera up to 2 hours during the day or 1 hour in night vision mode. Once you know where you'd like to mount your camera, please hard wire the 12V trailer light power adapter to your trailer's lighting system so you won't need to worry about changing the battery afterward.
- Mount the monitor booster antenna low and far back on the side of your vehicle.
- Camera booster antenna should be mounted next to an opened window or panel.
- Turn off the camera while it is not in use.
- When not in use for long periods of time, please store the unit in a cool, dry place.

Parts included



1. Windshield suction mounting bracket for monitor
2. Booster antenna (7-pin connector, 16 ft. cable, magnet base) for monitor
3. Booster antenna (5-pin connector, 16 ft. cable, magnet base) for camera
4. Two screw sets for antenna bases (for permanent mounting use)
5. Monitor (7" , 5.8 GHz. TFT LCD color, wireless)
6. Camera (weather proof, color, with automatic infrared night vision function) Note: in order to receive color pictures, the light and settings must be in decent studio conditions. Otherwise, it will not show the true color.
7. Two AC/DC power adapters (one for the monitor, one for the camera)
8. Desktop mounting bracket for monitor
9. Car lighter power adapter for monitor
10. Permanent mounting bracket for camera
11. 9V battery

12. C Clamp mounting base for camera, with battery case attached.
13. 12V power adapter for camera
14. Screw set for permanent camera mounting bracket

Features

- 5.8GHz wireless, night vision, color, weatherproof camera
- No tools required for installation. Can be setup in 5 minutes.
- Removable clamping base and permanent camera mounting bracket are included.
- Adjustable color monitor (brightness, contrast). Note: in order to have color in the monitor, the light and settings must be in decent studio conditions.
- Two outdoor, weather proof booster antennas for guaranteed reception.
- Automatic Infrared Night Vision camera. Can be operated in total darkness within a 10 meter range (When the night vision function is on, the monitor will only show black and white pictures)
- Power source can be from a 9V battery , 12V car lighter jack or 110V /240V AC/DC adapters
- A single alkaline 9V battery can operate the camera for up to 2 hours in daytime, or one hour in night vision mode.

Trailer Eyes® B2 set can be used everywhere and setup in 5 minutes.

Setup Instructions

For trailers

Setting up the camera in the trailer

1. Insert a 9V battery into the battery compartment. Turn the ON/OFF switch to the OFF position. Or hard wire the 12V power adapter to the trailer's lighting power.

For barns and outbuildings

Setting up the camera in the barn

1. Use the clamping base or the permanent bracket to mount the camera. The clamping base can be clamped on any pole or board which is less than 2 ¼" diameters thick. Choose the mounting spot (as high as possible) and tighten the clip bolt on the clamping base.
2. Plug the 110 /240V AC adapter into the power outlet and to the camera.
3. Attach the antenna 5-pin connector to the camera, tighten the pin screw.
4. Loose the tilt lock knob, adjust the camera, point it in the direction you wish to monitor, tighten the tilt lock knob.
5. Position the camera booster antenna (outdoor preferred) as high as possible. The antenna has a magnet base, and can stick to any steel surface. Or you can mount it permanently with a screw.
6. Arrange the antenna cable neatly.

Setting up the monitor in the house or office

1. Attach the monitor to the desktop mounting bracket.
2. Attach the 7-pin connector antenna to the monitor.
3. Position the monitor booster antenna (outdoor preferred) as high as possible. The antenna has a magnet base, and can stick to any steel surface. Or you can mount it permanently with a screw.
4. Plug the 110 /240V AC adapter into the power outlet and monitor.
5. To turn on the monitor – Press the "POWER" button.
6. Switch to the correct channel that coordinates with your camera's channel. To switch channels- Press the "CH" (Channel) button, cycle through the channels. There are 8 channels to cycle through. Once the correct channel is found, the screen will show the object you are monitoring.
7. Arrange the monitor power wire and the antenna cable neatly.



8. Adjust the position of the monitor, the antenna wire and the power wire to avoid interference with the driver. You should be able to see the observation object in your monitor now. You might need to adjust the camera angle and/or the position of the booster antenna for better reception.

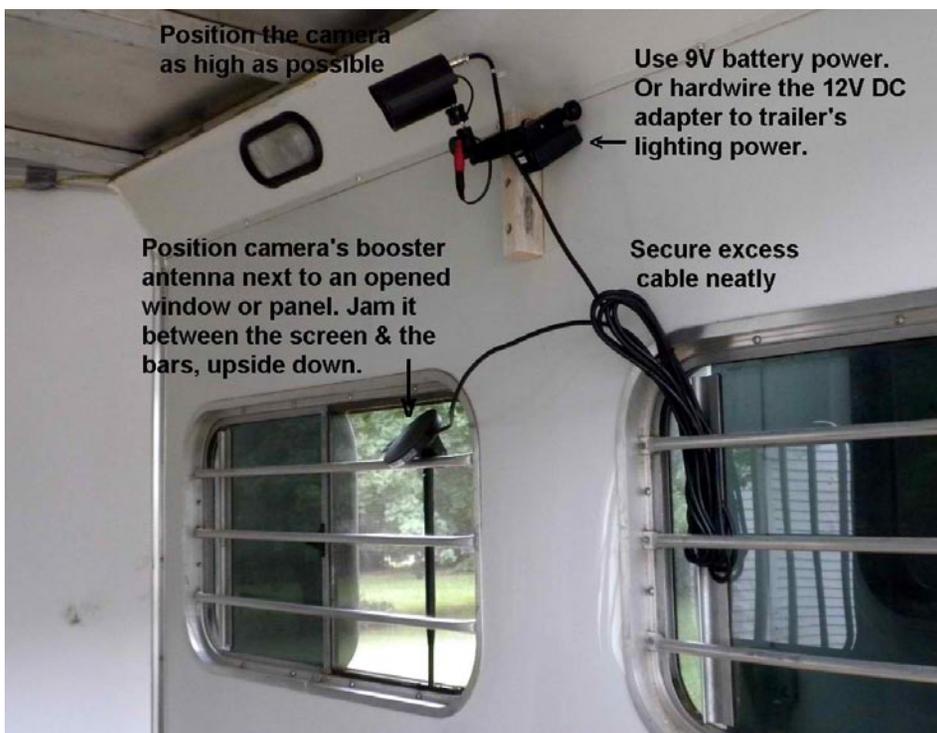
To remove suction mount from windshield

1. Flip back the lever lock
2. Pull the tab on the suction mount rubber pad. The unit should come off easily. Do not use excessive force to pull off the suction mounting unit. You may cause damage to the unit or windshield.

2. Use the clamping base to mount the camera. The clamping base can be clamped on any pole or board with less than 2 ¼" diameter thickness. Choose the mounting spot and tighten the clip bolt on the clamping base.
3. Loosen the tilt lock knob, adjust the camera, point it in the direction you wish to monitor then tighten the tilt lock knob.
4. Attach the booster antenna (5-pin connector) to the camera, tighten the pin connector screw.
5. Position and secure the booster antenna close to an opened window or panel (the antenna has a magnet base). Unless your trailer is longer than 40 feet, you don't need to mount the camera booster antenna outside of your trailer.
6. Arrange the excess antenna cable neatly.
7. Turn the camera ON/OFF switch to the ON position.

(Note : Once you know where you would like to clamp the camera, a few trips later, please hard wire the 12V trailer light power adapter to your trailer's lighting system. That way, you won't need to worry about changing the battery any more.)





(magnet base) on the roof of your vehicle; Or, for better results, mount the monitor booster antenna low and far back on the side of your vehicle. (When using Trailer Eyes B2 set in truck and trailer setting, the antenna rod can be folded down.) Run the wire between the antenna and the monitor through the car door and the car frame, not through the car window and door frame. After the antenna is mounted, tuck the antenna cable into the rubber frame edge, then shut the car door. The cable will not be cut.

6. Plug the power jack into the monitor then plug the 12V car lighter adapter into the car lighter socket. Turn the monitor on. (Press the "Power" button, blue light will be lit) Some vehicles need the engine turned on to supply power to the lighter socket.
7. Switch to the correct channel that coordinates with your camera's channel. To switch channels- Press the "CH" (Channel) button, cycle through the channels. There are 8 channels to cycle through. Once the correct channel is found, the screen will show the object you are monitoring.

Setting up the monitor in the vehicle

1. Attach the monitor to the suction mounting bracket.
2. Mount the suction mounting bracket to the windshield.
3. Attach the 7-pin connector antenna to the monitor. Tighten the connector screw.
4. Place the monitor booster antenna inside of your vehicle, near a window (window does not need to be opened) . Secure the antenna and excess cable neatly. Do not let monitor or antenna interfere with driver or passengers.
5. If your trailer is more than 40 feet long or has problems receiving the signal from the camera, you may need to mount the booster antenna outside of your vehicle.
Please refer to the following steps
 - Open the car door, mount the monitor booster antenna

