

# For Online Upload Only

**Size:** 210 x 148 mm (H x W)

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<i>Furrion Property Holding Ltd.</i>				
DATE:	12-Jan-22	DRAWN BY: Streng Shi	APPROVED BY: Ricky Deng	REVISION: 1.0
NAME: IM for Vision S+ Camera System			PART NO. IM-FCM00008	

# FURRION VISION S+

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## VISION S+ CAMERA SYSTEM

MODEL: FOS7HTAEM, FOS7HTAEN, FOS7HTAPM, FOS7HTASF  
FOS7HTASM, FOS5HTAEM, FOS5HTAEN, FOS5HTASF  
FOS5HTASM, FCEFDTASH, FCNFDTASF, FOS7HTADS  
FOS5HTADS

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## USER MANUAL



Model	Lippert Item No.
FOS7HTAEM	2021124330
FOS7HTAEN	2021124369
FOS7HTAPM	2021124366
FOS7HTASF	2021124329
FOS7HTASM	2021132204
FOS5HTAEM	2021124377
FOS5HTAEN	2021124375

Model	Lippert Item No.
FOS5HTASF	2021124370
FOS5HTASM	2021132203
FCEFDTASH	2021124443
FCNFDTASF	2021124484
FOS7HTADS	2021150757
FOS5HTADS	2021150756

Thank you for purchasing this Furrion® product. Before operating or installing, please read these instructions carefully. This instruction manual contains information for safe use, installation and maintenance of the product.

Please keep this instruction manual in a safe place for future reference. This will ensure safe use and reduce the risk of injury. Be sure to pass on this manual to new owners of this product.

The manufacturer does not accept responsibility for any damages due to not observing these instructions.

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# IMPORTANT SAFETY INSTRUCTIONS

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## Generic safety instructions

### READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR USING THE SYSTEM

When used as an observation system, this product is intended to assist in safe driving and to allow the driver to have a broader view.

Do not back up your vehicle while watching the monitor screen. Always look in the direction the vehicle is traveling.

Use the monitor as an aid to ensure there are no children or obstructions. The image on the monitor is not designed to show distance and may be misleading. The actual distance is less than what appears in the monitor. The range of the image is limited. Be aware of blind spots.

You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers according to your local traffic regulations.

Do not use any features of this system to the extent it distracts you from safe driving.

Your first priority while driving should always be the safe operation of your vehicle.

Furrion cannot accept any responsibility for accidents resulting from failure to observe these precautions or safety instructions.

1. This product utilizes high voltage. Any unauthorized modifications or damage to the product may result in electrical shock. Handle all components with care. Inspect regularly for damage to components and cabling.
2. You are responsible for ensuring the installation of this product does not void or affect the vehicle manufacturer's warranty. Furrion is not liable in full or in part for improper installation resulting in loss or damage to your property, or for voiding all or part of the vehicle manufacturer's warranty.
3. Do not apply excessive force to any of the components contained within this kit. Excessive force used before, during or after installation that results in a damaged or nonfunctional part will void all warranties.
4. Please follow the procedures in this instruction manual. Improper installation or modification of this product will void all warranties.

Many jurisdictions have laws and regulations relating to the use of cameras and some do not allow for the obstruction of information contained on a license plate. Before using this product, it is the buyer's responsibility to be aware of and comply with any applicable laws and regulations that apply to license plates or may prohibit or limit the use of cameras.

## Electrical Safety

- Ensure all power sources are isolated before installation.

- 
- Insulate unconnected wires with vinyl tape or similar.
  - Use insulated tools when working with a power supply.
  - For EU countries:
    - The monitor is powered by a 5V external power supply and the cameras are powered by 12V or 24V external power supply, with a properly sized fuse or breaker (5A for 12V or 3A for 24V) mounted between the product and power supply.
    - The external power supply used with this product shall comply with the LPS (Limited Power Source) requirements or shall be a Power Source Class 2 (PS2) with less than 100W.

## Caution

- There are no serviceable parts in the Furrion® Vision S+ Camera System. Do not disassemble or attempt any repairs.
- Install external fuses/breakers as required.

## Installation

- Installation and wiring of this product require specialist skills. To ensure proper and safe installation, please seek a specialist technician.
- Only use supplied or recommended parts.
- Use watertight connectors for the camera power supply cable to power source.
- Connect the camera to a 12-24V DC circuit using 18AWG or larger cables.
- Ensure correct polarity of DC power supply to the camera.
- To reduce the risk of fire, connect the camera only to a circuit provided with a maximum branch-circuit over current protection device.
- Do not route wiring in areas that may get hot.
- Take necessary precautions when working at elevated levels.

## Use

- Electrical appliances and overhead power lines can affect the wireless signal.
- Do not place the monitor in a location where it might hinder field of vision while driving.
- Consideration should be given to any airbags when installing the monitor. Do not place the monitor where it might hinder the airbag or become hazardous if the airbag is deployed.

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## Care

- Do not wash the vehicle with an automatic car wash or high pressure water. This may damage the camera.
- Clean the LCD screen with a microfiber cloth. Do not use coarse or abrasive materials.
- Do not use alcohol or ammonia based products to clean the LCD screen. Only use specialist screen cleaning products.
- Use a wet cloth to clean the camera lens. A dry cloth may scratch the camera lens.

## FCC Statement

The equipment complies with RF exposure limits. This module is limited to installation in mobile or fixed applications. The antenna used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**NOTE:** The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

**NOTE:** 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.

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## IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## RF Exposure

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation.

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with RSS-102 — Radio Frequency (RF) Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Le dispositif a été évalué à répondre général rf exposition exigence.pour maintenir la conformité avec les directives d'exposition du RSS-102-Radio Fréquence (RF). ce matériel doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et votre corps.

## Care and Cleaning

Though your monitor requires little care, you will still need to maintain its condition and performance by following the guidelines below.

- Keep the unit away from excessive moisture, or extreme heat or cold.
- Keep liquids away from the monitor.
- Occasionally clean the surface of the monitor with a soft cloth moistened with water or glass cleaner.






Only clean the monitor with dry cloth. Do not clean it with strong chemical agents or abrasive cleaners. Never spill liquid of any kind on the product. Do not allow residue or liquids to enter any part of the monitor as this may cause risk of electrocution. Always disconnect power before cleaning.

**CAUTION:** Never use solvents such as benzene, thinner or cleaners available commercially to clean the monitor. Furrion offers you abundant options to set up an observation/security system for your vehicle. You can mount Furrion Vision S+ products onto various types of RVs such as trailers and Class A/B/C motorhomes.

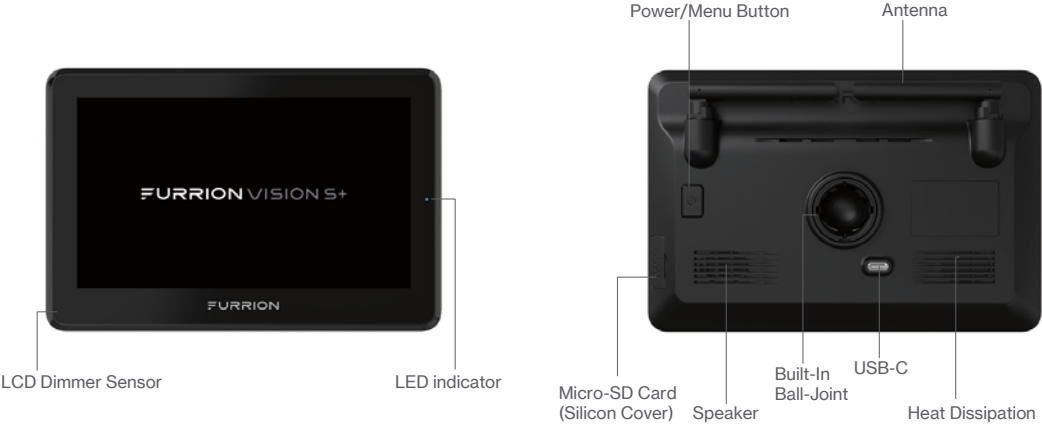


# PRODUCT OVERVIEW

The full range of Vision S+ wireless monitor and camera products available for your selection is listed below, which are sold either separately or as part of a system. Check all items in your package against the ‘What’s in the box’ section on the packaging box to ensure you have got all the items.

Part Number	Description	Product
FOS7HTAEM	Vehicle Observation System 7" Furrion Vision S+® 3-Camera System with LED Marker Lights	 +  +  +  +  + 
FOS7HTAEN	Vehicle Observation System 7" Furrion Vision S+® 3-Camera System with LED Marker Lights	 +  +  +  +  +  + 
FOS7HTAPM	Vehicle Observation System 7" Furrion Vision S+® 4-Camera System with LED Marker Lights	 +  +  +  +  +  +  + 
FOS7HTASF	Vehicle Observation System 7" Furrion Vision S+® Single Camera System	 +  +  +  + 
FOS7HTASM	Vehicle Observation System 7" Furrion Vision S+® Single Camera System with LED Marker Light	 +  +  + 
FOS5HTAEM	Vehicle Observation System 5" Furrion Vision S+® 3-Camera System with LED Marker Lights	 +  +  +  +  + 
FOS5HTAEN	Vehicle Observation System 5" Furrion Vision S+® 3-Camera System with LED Marker Lights	 +  +  +  +  +  + 
FOS5HTASF	Vehicle Observation System 5" Furrion Vision S+® Single Camera System	 +  +  +  + 
FOS5HTASM	Vehicle Observation System 5" Furrion Vision S+® Single Camera System with LED Marker Light	 +  +  + 
FCEFDTASH	Vehicle Observation System Furrion Vision S+® Side Camera with LED Marker Light	
FCNFDTASF	Vehicle Observation System Furrion Vision S+® Rear / Doorway / Entry / Security Camera	 + 
FOS7HTADS	Vehicle Observation System Furrion Vision S+® 7" Monitor	

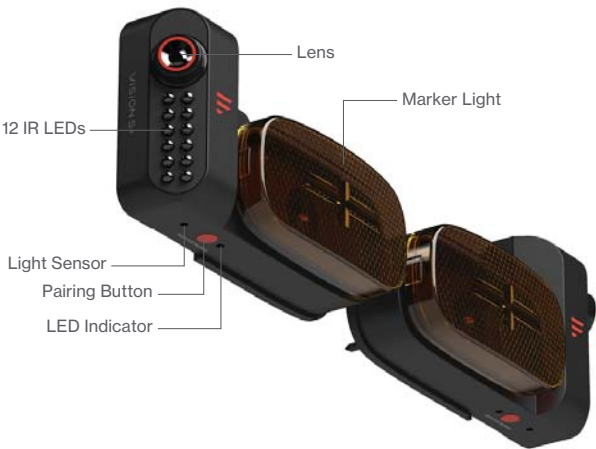
5" / 7" Monitor



Doorway Security Camera



## Side Camera with LED Marker Light



## Rear Camera with LED Marker Light



# INSTALLATION AND CONNECTION

## Install the 5"/7" Monitor

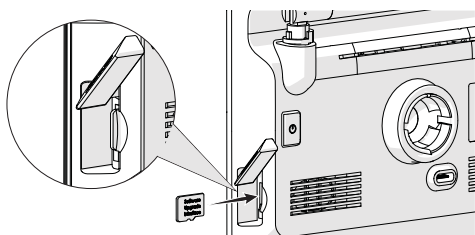
When mounted in the cab, the Furrion Vision S+ 7" monitor typically works as an observation system together with a Furrion rear mounted camera (for rear observation) and two side cameras (for traffic observation).

When mounted in the coach, the Furrion Vision S+ 7" monitor typically works as a security system together with a Furrion doorway camera.

## Insert a Micro-SD Card

Furrion Vision S+ monitor supports Micro-SD card (at least Class 10, not included) up to 128GB memory storage capacity for video recording or firmware upgrade.

Pull to open the rubber cover of the Micro-SD card slot and insert a Micro-SD card (not included).



**NOTE:** A Micro-SD card icon will appear on the top of the monitor screen once a Micro-SD card is inserted.

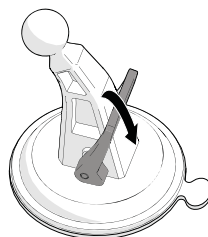
## Mount in Cab for Observation

**IMPORTANT:** Choose a monitor location in your vehicle that does not block your view and complies with local laws for safe driving. Do not place in an area where it might interfere with driving.

1. Choose a mounting method.

### When using the Windshield Mount

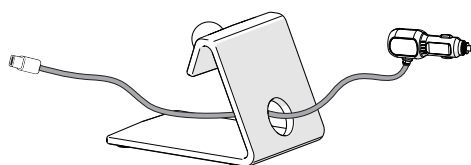
**Mount:** Clean the mounting area and remove the protective film from the bottom of the suction cup. Place the suction cup onto the appropriate location and pull the locking arm downwards to stick the mount securely.



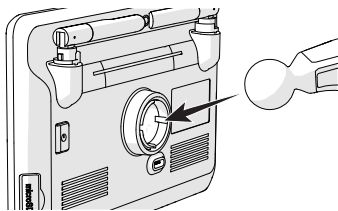
### When using the Interior Table Stand

**Stand:** Place the table stand on a flat stable surface, and route the monitor power cable through hole as shown.

**NOTE:** The table stand is designed with four non-slip pads at the bottom to enhance the stability.

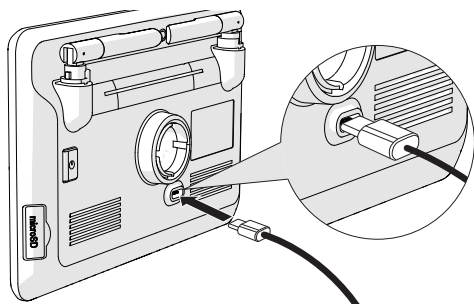
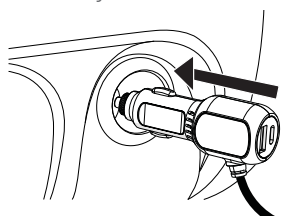


2. Align the ball joint of the windshield mount or the interior table stand with the opening on the back of the monitor and push hard to lock into place.



3. Connect the cigarette lighter connector of the monitor power cable to a cigarette lighter socket of your vehicle. Connect the type-C end to the USB-C power socket on the back of the monitor.

**NOTE:** The allowed input voltage to the monitor is 5V, only use Furrrion authorized cigarette adapter to connect the monitor, any other branded adapter may damage the monitor permanently and will void the warranty.



4. Rotate the monitor body to adjust the visual angle as needed.

## Install Doorway Security/ Rear Camera

### Prepare

- Prepare tools you may need,

including a #2 Phillips head screwdriver, sealant, insulation tape, pencil and/or a  $\frac{5}{8}$ " drill bit (needed only when drilling a new hole).

### Mount Bracket

**NOTE:** Skip this section if your RV is pre-installed with a bracket for camera installation.

**IMPORTANT:** Before any installation and wiring operation, remove the key from the ignition and isolate the 12V/24V power source.

Always seek professional assistance if you are unsure about the installation and wiring operation.

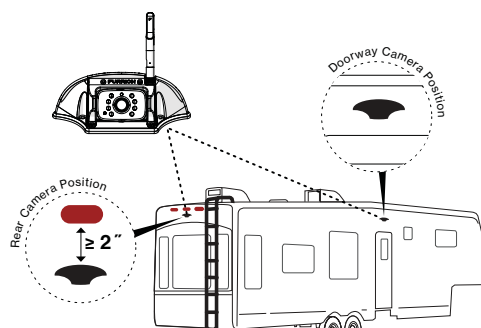
1. Determine the mounting location on your RV. Ensure that there is no obstacle blocking the camera view. The recommended mounting location is as below:

- **For rear camera position:**

At the top center on the rear of your RV and as high as practicable (2" below the red marker light if available).

- **For doorway camera position:**

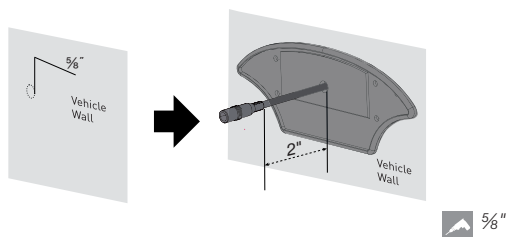
Above the top of the door.



**NOTE:** The RV shown here is for reference only. You can mount Furrrion Vision S+ products onto various types of RV such as trailers and Class A/B/C

motorhomes.

2. Use the gasket as a template to mark a basic outline on the desired mounting location and drill a  $\frac{5}{8}$ " center hole on the vehicle wall. Route the female connector of the camera power cable through the hole and leave 2 inches of slack.



3. Connect the bare ends of the camera power cable to the nearest 12V/24V power supply:

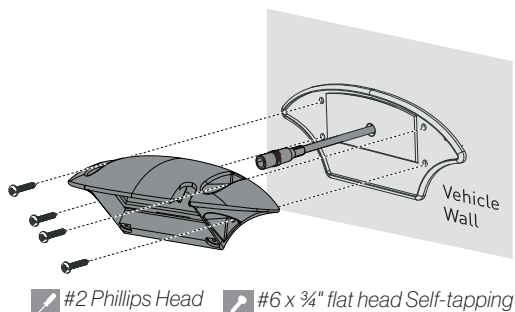
- Red: +12V
- Black: Ground

**For rear camera position:** It is suggested to share the same power line from the nearest marker light (such as the red marker light at the top center on the rear if available).

**For doorway camera position:** It is suggested to share the same power line from your RV porch light (or the nearest light source from the RV/trailer battery).

**NOTE:** Ensure that the fuse on the connected power line provides additional 1A fusing current for the camera. Ensure proper cable isolation for all bare ends (e.g., by using insulation tape).

4. Fix the gasket and the bracket with four #6 x  $\frac{3}{4}$ " flat head self-tapping screws. Apply sealant around the gasket for better sealing.

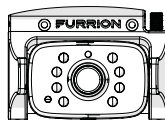
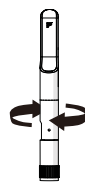


## Mount Camera

If this camera comes in a bundle with a Furrion Vision S+ monitor, it is paired with the monitor by default. You can connect the camera male connector to the female connector of the camera power cable and resume power temporarily to check the pairing status before installation.

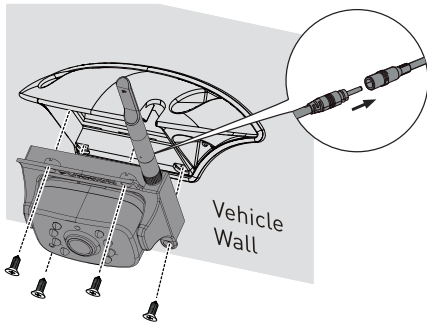
If you cannot see the video feed of the camera on the monitor screen or you have an unbundled camera, see the separate **Quick Start Guide** of the monitor or the "**Pair with a Camera**" section of this manual for the pairing procedures.

1. Screw the antenna onto the camera securely and keep the antenna straight.



2. Connect the female connector of the camera power cable to the male connector of the camera and put the redundant cables inside the bracket housing. Attach the camera

to the bracket with four #4 x 1/4" self-tapping screws.

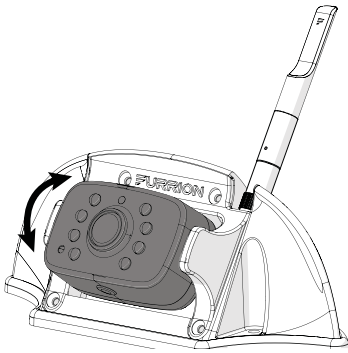


 #2 Phillips Head  #4 x 1/4" self-tapping

3. Adjust the view angle of the camera by rotating it upwards or downwards (0~50°) so that you can see:

**For rear camera position:** the bottom edge of your vehicle and the road conditions behind.

**For doorway camera position:** the bottom edge of the door.



**TIP:** See the complete user manual online for detailed functional explanations.

## Install Side Cameras & Rear Camera with LED Marker Light

### Prepare

- Prepare tools you may need, including #1 and #2 Phillips head

screwdrivers, sealant, insulation tape, pencil and/or a 5/8" hole saw (needed only when drilling a new hole).

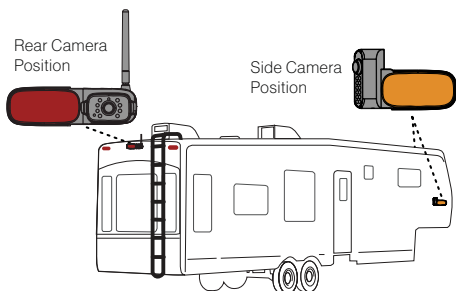
### Mount LED Marker Light

**NOTE:** Skip this section if your RV is pre-installed with a bracket for camera installation.

**IMPORTANT:** Before any installation and wiring operation, remove the key from the ignition and isolate the 12V/24V power source.

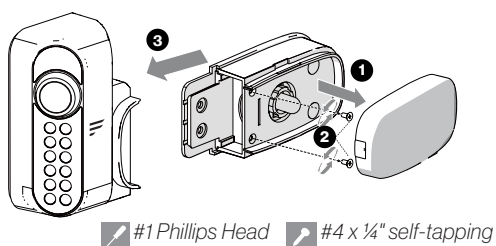
Always seek professional assistance if you are unsure about the installation and wiring operation.

1. Determine the mounting location on your RV. Ensure that there is no obstacle blocking the camera view. To avoid drilling new holes, it is recommended to replace the original marker lights with Furrion products directly as below:
  - **For rear camera position:** Locate the original rear marker light at the top center on the rear of your RV. To accommodate the camera, ensure that there is at least 7.5" space between the central points of the two adjacent marker lights.
  - **For side camera position:** Locate the original side marker lights as near to the driver's cab as possible and the height from ground to the middle of the trailer.



**NOTE:** The RV shown here is for reference only. You can mount Furrion Vision S+ products onto various types of RV such as trailers and Class A/B/C motorhomes.

2. Remove the lens cover and detach the camera from the marker light bracket (right side camera shown).



3. Remove the original marker light from the corresponding location.
4. Connect the bare ends of the power cable on the back of the bracket to the nearest 12V/24V power supply:

#### Side markers use 4 wires:

- Red: +12V
- Brown: Marker
- Yellow: Trigger
- Black: Ground

#### Rear marker uses 3 wires:

- Red: +12V
- Brown: Marker
- Black: Ground

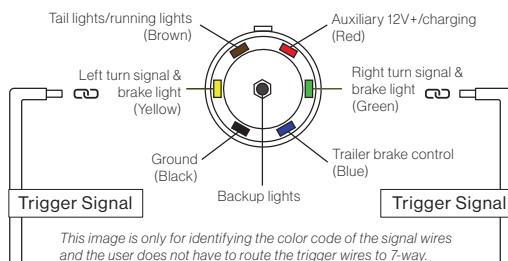
**For left/right side camera position:** It is suggested to use

the power line for the original side marker lights directly.

**For rear camera position:** It is suggested to use the power line for the original rear marker light directly.

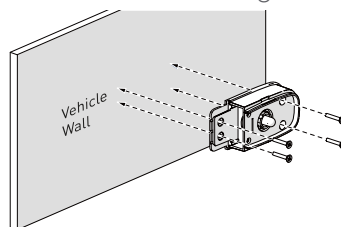
#### Example of a typical 7-way connection

##### FEMALE CONNECTOR, MALE PINS



**NOTE:** Ensure that the fuse on the connected power line provides additional 1A fusing current for the camera. Ensure proper cable isolation for all bare ends (e.g., by using insulation tape).

5. Secure the gasket and marker light bracket onto your vehicle using four #6 x 3/4" flat head self-tapping screws. Apply sealant around the gasket for better sealing.



➤ #2 Phillips Head   ➤ #6 x 3/4" flat head Self-tapping

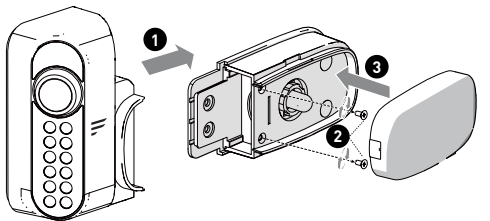
### Mount Cameras (right side shown)

Reattach the camera to the marker light bracket. Before fixing the camera, check its pairing status with the monitor by resuming power temporarily.

If you cannot see the video feed from the camera on the monitor screen or



you have an unbundled camera, see the separate **Quick Start Guide** of the monitor or the “**Pair with a Camera**” section of this manual for the pairing procedures.

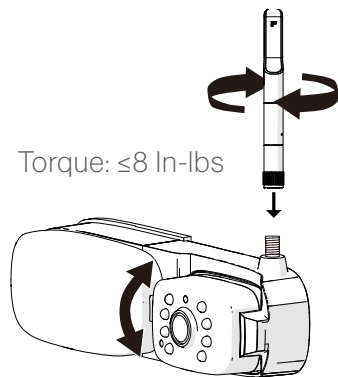


#1 Phillips Head

#4 x ¼" self-tapping

**For the rear camera,** screw the antenna onto the camera securely and keep the antenna straight. Adjust the view angle of the camera by rotating it upwards and downwards (0~50°) so that you can see the bottom edge of your

vehicle and the road conditions behind.



**For the left/right side camera,** ensure the lens on the camera is facing backwards and the **MONITOR PAIRING** button is facing downwards after installation.

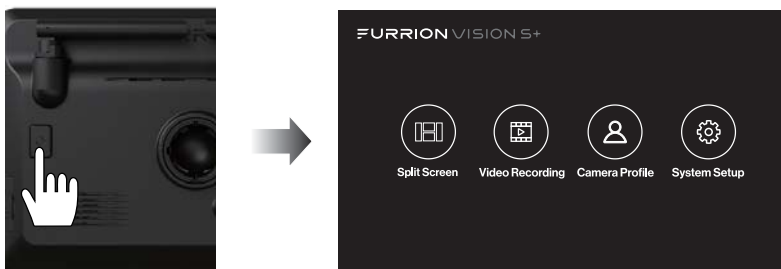
**TIP:** See the complete user manual online for detailed functional explanations.

## SYSTEM SETUP

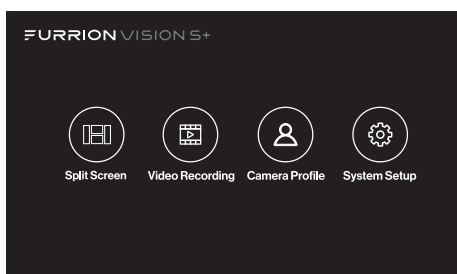
### Pair with a Camera

If the monitor comes in a bundle with one or more Furrion Vision S+ camera(s), it is paired with the camera(s) by default. If you cannot see the video feed of the camera on the monitor screen or you have an unbundled camera, follow the procedures below to pair.

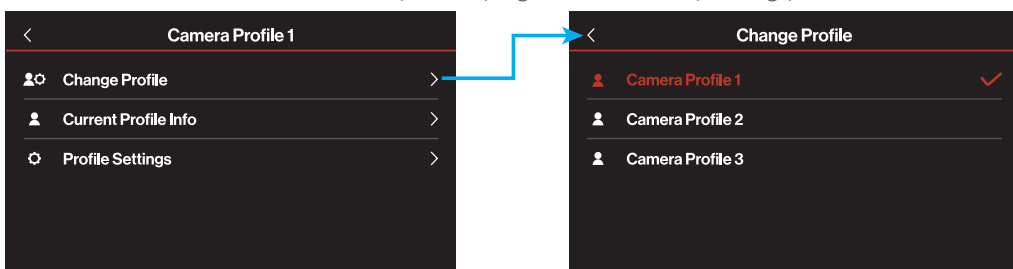
1. Ensure the monitor is turned on.  
**NOTE:** The monitor will be turned on automatically and shows the video feed(s) of paired camera(s) once connected to the power source. If the monitor is off, press the power button to turn it on.
2. Ensure the camera that is going to be paired has been installed and wired properly. See the separate **Quick Start Guide** of the camera or the “**Install Doorway Security/Rear Camera**” and “**Install Side Cameras & Rear Camera with LED Marker Light**” section of this user manual for detailed camera installation instructions.
3. Press the power button of the monitor to pop up the menu.



- Click **Camera Profile** to enter the sub-menu.

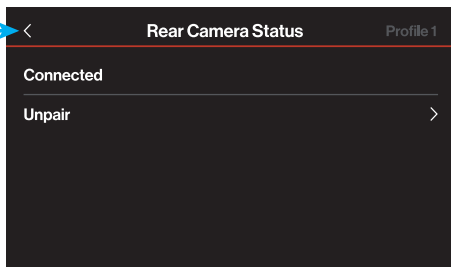
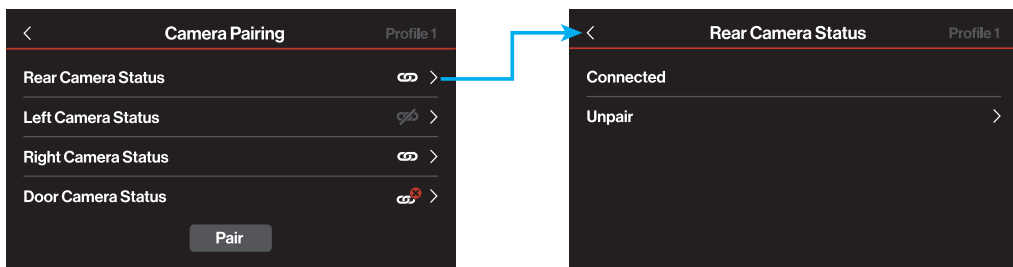


- In the case that you have purchased two or three sets of Furrion S+ system for different RV, you are allowed to set preferred profile for different RV. Click **Change Profile** to choose the profile that is right for the RV. Click **<** on the top left of the monitor to return to the camera profile page for camera pairing procedures.

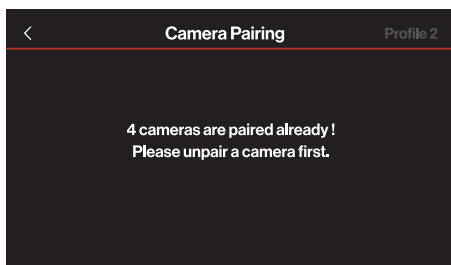
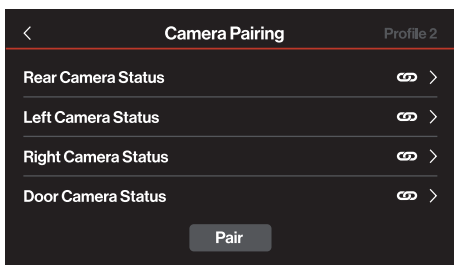


- Click **Profile Setting**, and then **Camera Pairing** to check the pairing status of each camera.

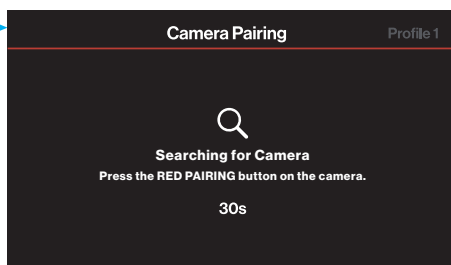
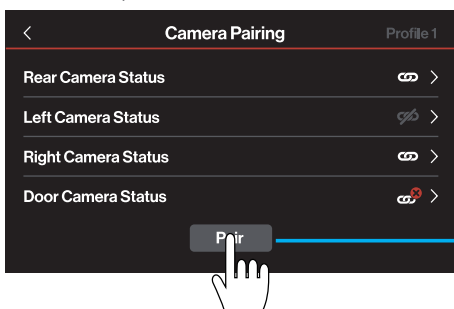
Icon	Status
	The camera is paired.
	The camera is not paired.
	The camera is paired but not connected.



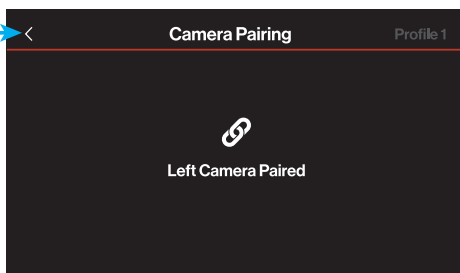
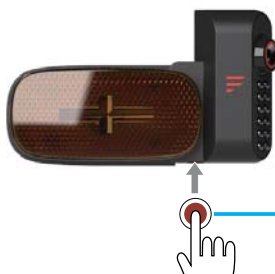
**NOTE:** You will receive a notification of “**4 cameras are paired already! Please unpair a camera first.**” if the profile was paired with 4 cameras already, you need to unpair at least one camera first before continuing the pairing procedures. See “**UNPAIR WITH A CAMERA**” section for steps to unpair a camera.



7. Click **Pair** key, you will receive a tip of asking to press the **RED PAIRING** button on the unpaired camera within 30 seconds count down.

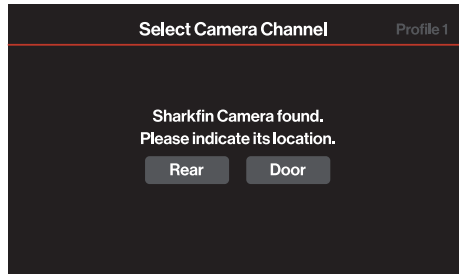




8. Press the **RED PAIRING** button at the bottom of the unpaired camera (left camera shown) to start the pairing.

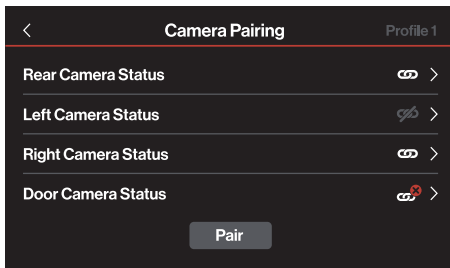


**NOTE:** In the case of pairing a sharkfin camera, once the camera has been detected, you will be asked of choosing to pair as rear view or doorway security

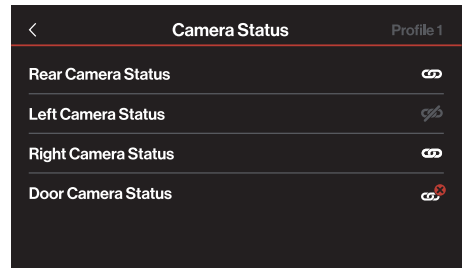
view if no camera has been connected to both the doorway or rear position, or the sharkfin camera will be paired to the spare position (doorway/rear) automatically.



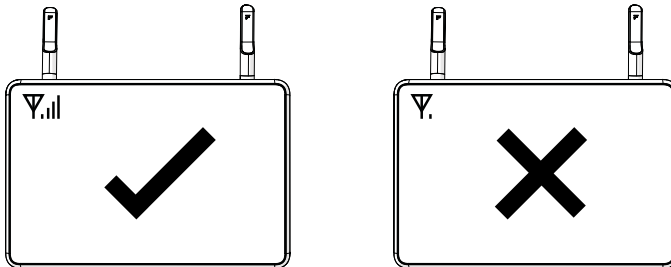
9. To check the pairing status of each camera, return to the **Camera Pairing** page or enter the **Camera Status** page, the  icon indicating the camera is paired successfully. If  icon is shown, please check the signal strength.



OR



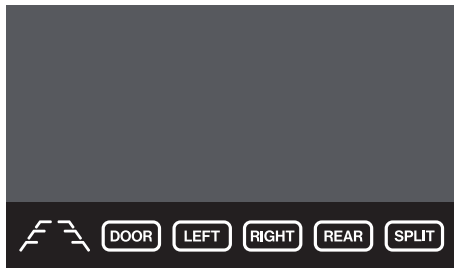
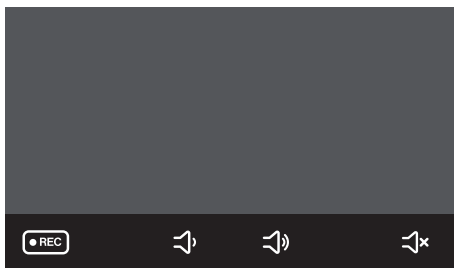
10. Erect antennas on the monitor and cameras (if available) and ensure the signal strength is OK.



11. Tap the screen once to change the volume setting of current camera or record a video. Tap the screen the second time to choose the view mode.

**NOTE:** The record function is available only if there is a Micro-SD card already inserted. Do not remove the SD-card until the recording is complete to avoid content loss. Stop recording before removing the SD-Card.

In split view mode, tap the center of screen to toggle among quad split, H split and triple split view mode. For your safety, the quad split is not recommended while you are driving.



## Activate the Monitor

When the monitor is off, press the Menu button on the right of the monitor to turn it on and enter the menu setting page.

When the monitor is on, press and hold the Menu button to activate the menu setting page.

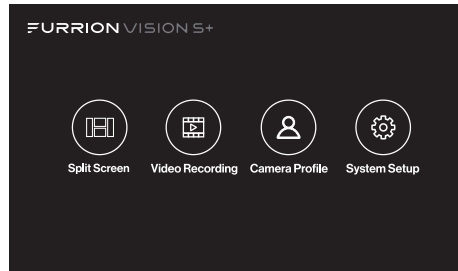
### NOTES:

- The rear or doorway camera transmits a clear and wide image with audio from the area behind the vehicle or at the vehicle door to the monitor inside. To avoid unnecessary noise when the vehicle is moving, you can mute your vehicle speaker system.
- The side cameras transmit clear images at both sides of your vehicle to the monitor.
- When the monitor is off, it can turn on again automatically and display camera images after receiving a video signal on the 2.4GHz frequency band from a camera.
- The monitor adjusts color, brightness, and contrast automatically for either daytime or nighttime viewing. At night the picture will appear black and white. This is due to the low light level and is normal.
- The monitor in a wireless system is always watching for a video signal when it is off. Signals from other wireless camera systems may cause interference. For example, security cameras, baby monitors, and even other backup camera systems can also trigger the monitor to briefly light up. This is normal for wireless products.

## Change Menu Settings

There are four options that allow you to set up the wireless vehicle observation/ security system before operation.

Tap one of the four options to enter the setting page or tap ↶ to return to the previous page.

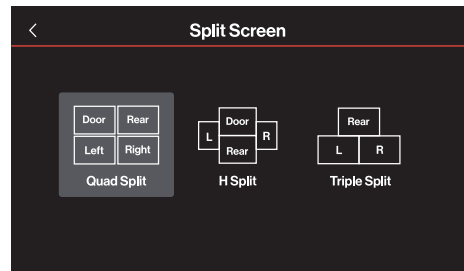
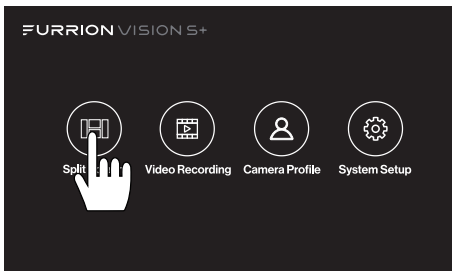


## Split Screen Display Setting

Tap the **Split Screen** icon to enter the sub-menu and select your preferred split-screen view mode.

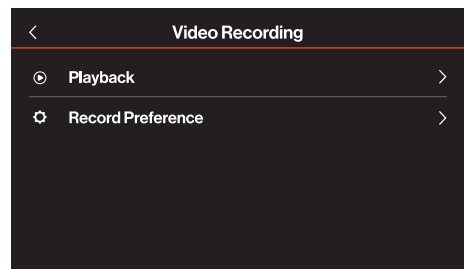
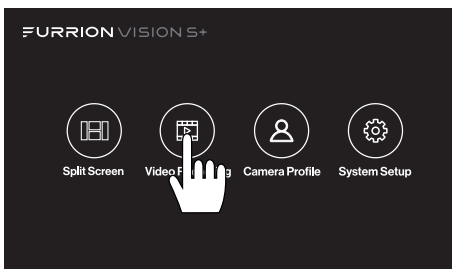
Quad Split or H Split camera layout for 4-channel display, Triple Split camera layout pattern for 3-channel display.

**IMPORTANT:** Quad view mode is not recommended for observation while you are driving.



## Video Recording Setting

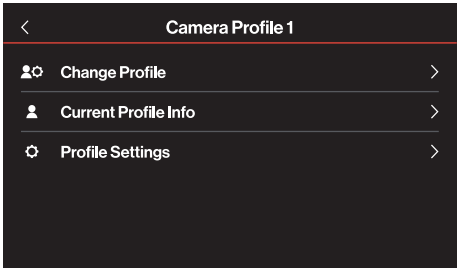
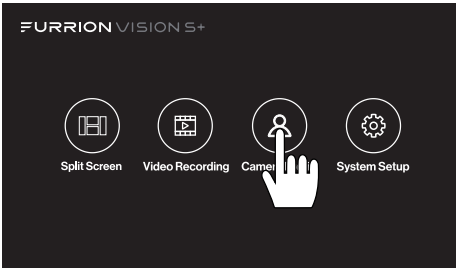
Tap **Video Recording** icon to skip to camera profile setting page. Refer to the function explanation of each menu in the table and change to your preferred settings.



Video Recording		
Playback	Click to choose to playback or delete the video recorded.	
Record Preference	Video Clip Length	Choose to clip the video in 1-min or 3-min length.
	Record Channel	Turn on/off the video recording to the cameras.

Camera Profile Setting

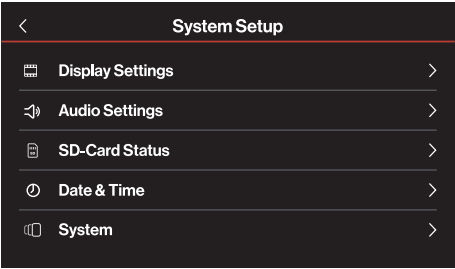
Tap **Camera Profile** icon to skip to camera profile setting page. Refer to the function explanation of each menu in the table and change to your preferred settings.



Camera Profile		
Change Profile	Click to choose the camera profile that is right for your vehicle.	
Current Profile Info	Click to view the camera profile to be selected and the number of camera to be paired.	
Profile Setting	Camera Pairing	Change the connection status of each camera. Indicates the camera is paired. Indicates the camera is not paired. Indicates the camera is paired but not connected. Check and make sure the camera is connected properly. See "SETUP THE SYSTEM" section for detail.
	Camera Status	View the connection status of each camera. Indicates the camera is paired. Indicates the camera is not paired. Indicates the camera is paired but not connected.
	Parking Guidance Lines	Click to adjust the setting of the parking guidance lines.
	Default View	Change the screen time-out display of the camera to single view or split screen view.
	Camera Settings	Change the display setting of the camera, such as Rotate, Flip, Brightness, Contrast and Color.

System Setup Setting

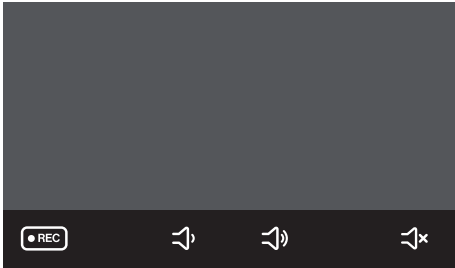
Tap **System Setup** icon to skip to system setup setting page. Refer to the function explanation of each menu in the table and change to your preferred settings.







System Setup		
Display Settings	Auto Dim	Enable or disable screen brightness automatic adjustment function.
	LCD Auto Off	Set the LCD auto off time.
	Motion Detect	Change the setting of Motion Detect function. The monitor will turn on automatically after any motion is detected while the monitor in off mode. The higher the detection sensitivity the easier the motion will be detected.
	50/60 Hz	Set a suitable screen refresh rate for the monitor.
Audio Settings	Change the system volume setting. Click  to increase the volume or  to decrease the volume.	
SD-Card Storage	SD Card Status	Click to view the SD Card memory information, such as the total size, remain size and usage size.
	SD-Card Performance Check	Click to check the performance of the SD Card.
	SD Card Format	Format the SD Card, all the files will be erased.
Date&Time	Set the system date and time to preferred displaying format.	
System	Software Version	Show the software version of the monitor and the current paired camera(s).
	Firmware Upgrade	Choose to upgrade the software when a new version is available.
	Reset	Restore to factory default settings. All the data will be erased.

# SYSTEM OPERATION

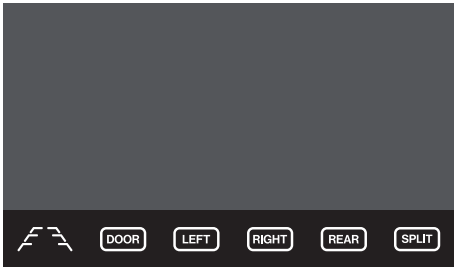
**When in single channel mode:** Tap once on the monitor screen to show the control menu. It will stay 30 seconds, then go back to previous single camera view.














Icon	Description
	Tap once, the icon will be changed to red indicating the device is recording a video. Tap the second time to cancel the recording.
	Tap to decrease the volume of the monitor.
	Tap to increase the volume of the monitor.
	Tap to mute the monitor.

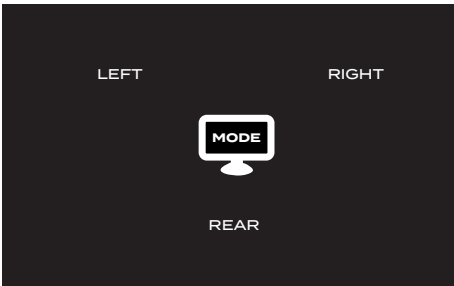
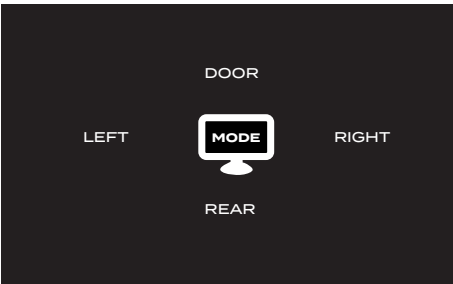
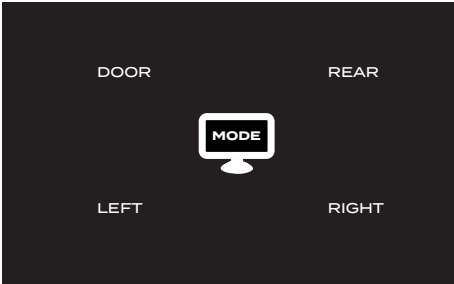
Tap twice on the monitor screen to bring up the camera selection interface.



Icon	Description
	<p>Tap to turn on/off the on-screen guideline.</p> <p>In multi channel mode with DOOR, LEFT and RIGHT selected, tap  to enter Parking mode with on-screen guideline.</p> <p>In single channel mode with REAR selected, tap once to enter the parking lines of rear view; tap twice to enter Parking mode with on-screen guideline.</p> <p>The selected mode will remain for 30 seconds before returning to the previous mode.</p>
	Tap to select the door camera.
	Tap to select the left camera.
	Tap to select the right camera.
	Tap to select the rear camera.
	Tap to switch to quadrant view mode.

**IMPORTANT:** Quad view mode is not recommended for observation while you are driving. When in quadrant mode:

1. Tap the center of the monitor screen to show the  icon.
2. Tap  to switch among Quad Split, H Split and Triple Split.



3. Tap DOOR (not available in Triple Split mode), LEFT, RIGHT or REAR to select a camera and view the image from it.

# TROUBLESHOOTING

Problem	Solution
Monitor won't turn on (no blue LED)	Check the power cable is connected.
	Check that the power supply has 12-24V DC output.
	Check all fuses and breakers (including fuses in the cigarette power adapter and fuse box).
	Power off and on again to reset.
Wireless camera(s) and monitor won't pair	Furrion monitor / rearview mirror can only pair with Furrion cameras. Pairing with products from other manufacturers is not supported.
	Check if the camera is receiving power.
	Ensure that the fuse on the connected power line provides additional 1A fusing current for the camera.
	Ensure proper cable isolation for all bare ends to avoid short-circuit.
	Make sure to hold the camera pairing button for 2 seconds.

Problem	Solution
Intermittent / weak signal icon appears	Check if the camera antenna is fitted and secured correctly - it should be vertical.
	Large dense objects could be obscuring the signal. If possible, move the objects.
	Interference from electrical appliances may be affecting the wireless signal. Turn off the appliances when using the system.
	Interference from overhead power lines may be affecting the signal.
	Try unpairing and pairing again.
Blurry images on the monitor	Remove the protective film from the camera lens upon completion of installation.
	The camera lens may be dirty. Wipe them with a piece of soft and clean cloth.
	Some adverse weather conditions such as heavy fog, rain, floating dust or mud splashes may either partially or entirely block the camera view. Clean the camera lens immediately after driving to a safe place.
Images too dark / bright on the monitor	Adjust the brightness and contrast settings.
	The image may be too bright when the camera lens are facing towards a direct light source. This is not a malfunction.
Night vision is poor or does not function	The light sensor on the camera may be dirty or obstructed. Clean the light sensor or remove obstacles.
	If the ambient light is too strong, the night vision function may not engage. This is not a malfunction.
	Ensure that the camera is installed at least 2 inches away from marker lights.
Monitors Blue LED off with no picture	The camera has no power connected.
	Ensure the tow vehicle is running.
	Ensure the 7 way connector is connected.

# SPECIFICATIONS

Note: Product specifications are subject to change without prior notice.

## Vision S+ Monitor Specification

Resolution	1024 x 600
Brightness	700cd/m2
Contrast	CR:800
Viewing Angle	Left / Right 85°, Up 85°, Down 85°
Aspect Ratio	16:9

Memory Card Slot	Micro SD up to 128G (at least Class 10 )
Recording Format	AVI, H.265
Supply Voltage	5 ± 0.3VDC
Working Current (Backlight On)	<1500mA@5VDC
Working Current (Backlight Off)	<800mA@5VDC
Wireless Frequency	2.4GHz
Wireless Range	<492 ft (150m) (open area)
Delaying Time	<250ms
Type Approval	FCC, IC, ROHS

## Vision S+ Family Camera Specification

Camera Pixel	1920 x 1080
View Angle	140° (rear/shirkin camera); 65° (left/right camera)
Night Vision Distance	<16ft (5m)
Waterproof	IP65
Optical Lens	F2.6
CMOS Size	1/3"
IR Cut Filter	850nm Automatic
Supply Voltage	8-30VDC
Working Current (IR On)	<350mA @12VDC
Working Current (IR Off)	<200mA@12VDC
Wireless Frequency	2.4GHz
Wireless Range	<492 ft (150m) (open area)
Delaying Time	<250ms
Type Approval	FCC, IC, ROHS

## Vision S+ Family Camera Bracket Specification

	LED Marker	Sharkfin Bracket
Number of Poles	4	2
Wiring Color	Red — Voltage in Black — GND Yellow — Turn signal trigger (left/right) Brown — Marker Light Voltage in	Red — Voltage in Black — GND
Installation Position	RED for Rear Amber for Side (Left / Right)	Doorway, Rear



# FURRION

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