



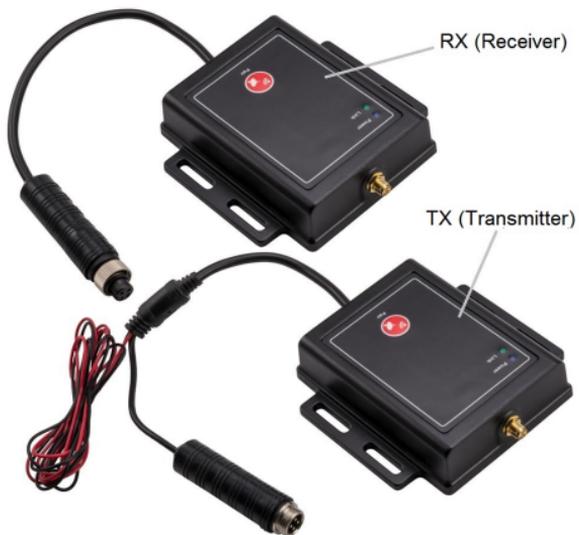
# TE-WTR User Manual

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**TECH SUPPORT**  
**800-253-8324**

## Components



## **Functions**

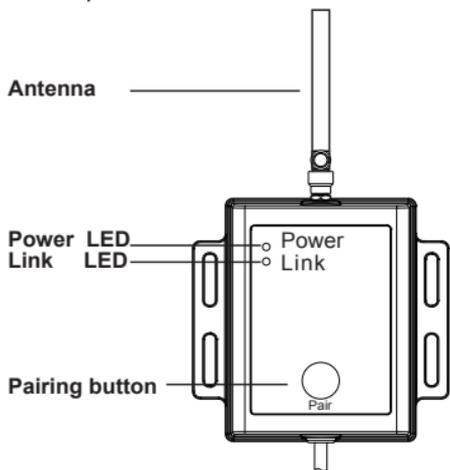
1) After connecting the main power, the blue color POWER LED will be activated at both RX and TX. Immediately after connecting the main power, the green color LINK LED will be activated at both RX and TX. When RX-TX's blue color POWER LED and green color LINK LED are activated at the same time then the RX and TX are connected (linked) each other and working normally.

2) ) Within the effective working range, press the PAIR button at the RX and TX for 3 seconds. Then the green color LINK LED at the RX and TX will start blinking. When the green color LEDs are blinking then the RX and TX are PAIRING each other.

3) The pairing process takes 50 seconds. A countdown timer will be visible via the On Screen Display at the connected monitor. After 50 seconds the green color LINK LEDs will stop blinking and turn to solid green. In this case the RX and TX are connected (linked) each other correct. As soon as the camera picture is visible, the On Screen Display shows the wireless signal strength by 4 vertical bars in the right top corner of the connected monitor.

1 Bar means minimum/low signal strength and all 4 bars means maximum/high signal strength. In the case of low signal strength, then re-positioning the RX and/or TX is recommended to improve the signal strength. Best signal strength will be accomplished when both antennas can 'see' each other with minimal obstacles in between. Once the RX and TX are connected (linked) to each other the pairing process does not have to be repeated after the main power is disconnected. The established link will be stored by the memory function of the TX module in order to ensure quick startup after disconnecting and re-connecting the main power.

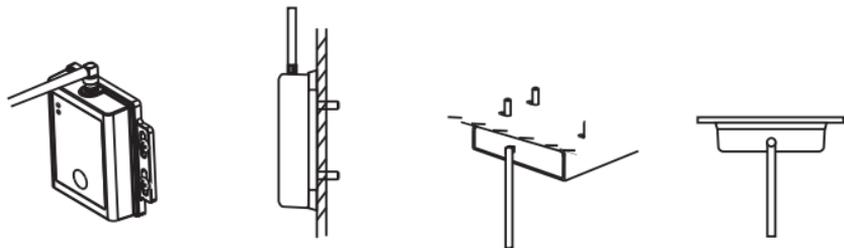
4) In case another RX or TX needs to be connected (for example, during exchange of trucks and trailers each other), then please repeat above steps 1~3.



### Transmitter (TX)

The TX should be installed on top of the roof from the cargo space or under the bottom of the cargo space.

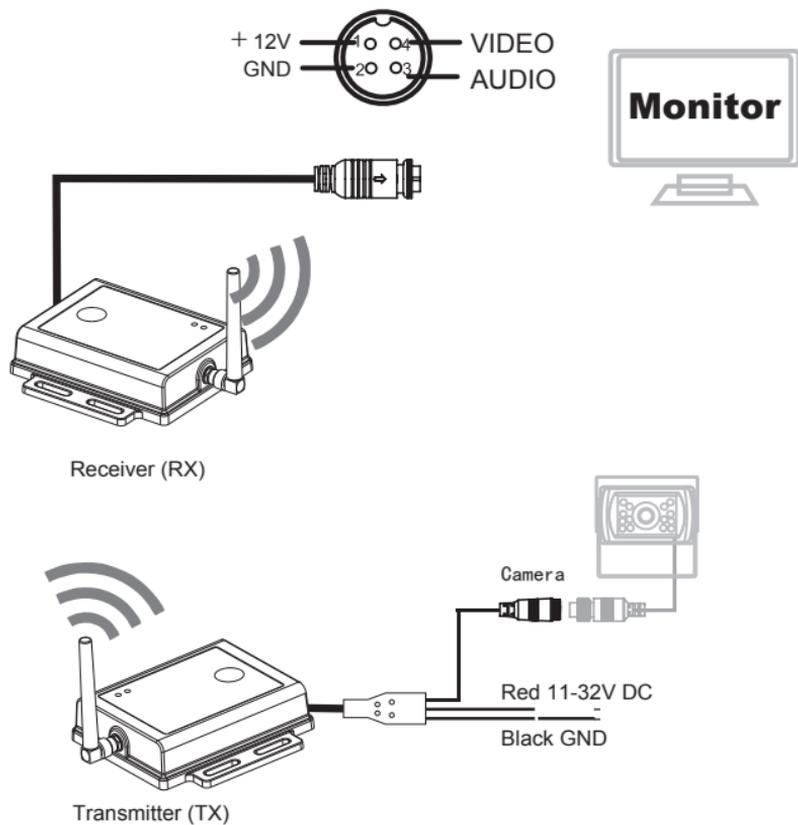
## Installation



### Receiver (RX) and Transmitter (TX)

The modules should be installed as high as possible inside the cabin (RX) and cargo space (TX), without interfering with the functionality of the vehicle. Route cables avoiding areas that may pinch or damage the wires. On the TX module, connect the red wire to a switched +12V power source and the black wire to ground (a non-painted bare metal surface). Orientate antennas parallel to each other for optimal performance.

## Wiring Diagram



## **Cleaning & maintenance**

1. Make sure the power to the TE-WTR system is disconnected.  
Gently remove any foreign material on the housing by rubbing the surface lightly with a wet, soft cloth.
2. During cleaning, please make sure there is no water ingress between the antenna terminal and the antenna.
3. In order to avoid loose contact between the antenna and the antenna-terminal, please check these positions at both RX and TX regularly or apply insulation tape for durable fixation.
4. Do not put the products at high temperature and high electromagnetic interference environments.
5. Do not drop or do not expose the products to external shocks.

## Specifications

General	Operating frequency	2400MHZ-2483MHZ
	Modulation system	FSK
	Max. range	150-200M (in free space)
	Operating temperature	-30 °C -80 °C
	Operating current	0.13-0.17A
	IP Rating	IP69K
Transmitter (TX)	Power supply	11-32V
	Video input	CVBS 1.0VP-P,75Ω
	Audio input	AUDIO MAX 2VP-P,50Ω
	TPU cable length	Approx. 400cm
	Dimensions	131 x 100 x 25.6mm
	Weight	0.266KG
Receiver (RX)	Power supply	11-32V
	Video output	CVBS 1.0VP-P,75Ω
	Audio output	AUDIO MAX 2VP-P,50Ω
	Pixels	720x576
	TV system	NTSC
	Frame rate	25-30 frames/sec
	TPU cable length	Approx. 600cm
	Dimensions	131 x 100 x 25.6mm
	Weight	0.254KG

## IMPORTANT

If you are having difficulties with the installation of this product, please call our Tech Support line at 1-800-253-TECH. Before doing so, look over the instructions a second time, and make sure the installation was performed exactly as the instructions are stated. Please have the vehicle apart and ready to perform troubleshooting steps before calling.



### KNOWLEDGE IS POWER

Enhance your installation and fabrication skills by enrolling in the most recognized and respected mobile electronics school in our industry.

Log onto [www.installerinstitute.com](http://www.installerinstitute.com) or call 800-354-6782 for more information and take steps toward a better tomorrow.



Metra recommends MECP certified technicians

### Attention

When connecting with power cable, please make sure not to mistake the positive and negative pole, otherwise the fuse will blow immediately for security protection. If it happens, please replace the blown fuse with a new one with same specification, after connecting properly to the right pole. Don't randomly increase the current rating of the fuse, and NEVER use metal wire as a substitute.