

A graphic consisting of a long, thin, white curved line that spans across the middle of the page. At each end of this line, there is a series of concentric circles, resembling a signal or radar, with a small orange dot in the center of each circle.

# Wireless Camera System

**VW100**  
**User Manual**

Manual Version: 20120522.ver1.1  
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MUMVW0011

### *Catalog*

|                               |    |
|-------------------------------|----|
| Disclaimer -----              | 2  |
| Feature -----                 | 4  |
| Product Specification-----    | 5  |
| Wire connection position----- | 7  |
| Installation position-----    | 8  |
| Installation method -----     | 9  |
| Operation-----                | 10 |
| Pairing -----                 | 11 |

### *Disclaimer*

1. Please notice operating voltage for wireless camera system. If misconnection result in breakdown or damage, we are not going to provide warranty.
2. If wireless camera system have been series connect to un-original manufacture accessories and result in breakdown or damage, we are not going to provide warranty.
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### *Disclaimer*

1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter .
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body .
3. 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:
  - a. Reorient or relocate the receiving antenna.
  - b. Increase the separation between the equipment and receiver.
  - c. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - d. Consult the dealer or an experienced radio/TV technician for help.
4. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

### *Feature*

- 2.4G wireless digital signal transformation technology
- Cold start are less than 500ms
- Smart Hopping technology
- Strong anti-interference ability
- Operating temperature: -20~70 degree C
- Operating voltage: 9~16V
- VGA resolution video transfer

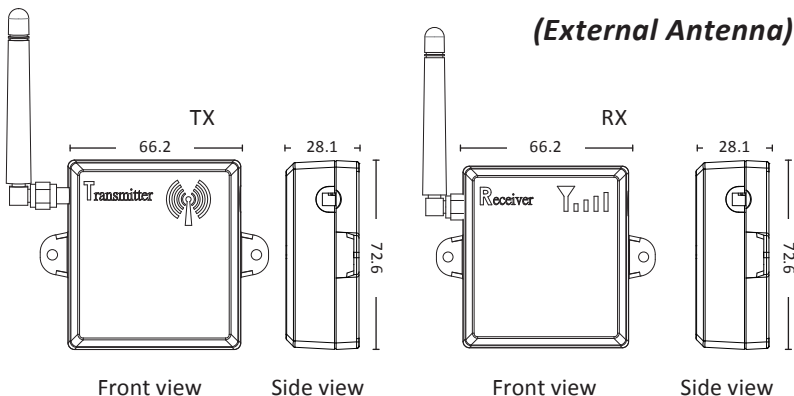
## Product Specification

| Item            |                     | Value                |         |     | Note |
|-----------------|---------------------|----------------------|---------|-----|------|
|                 |                     | Min                  | Typical | Max |      |
| Transmitter(TX) | Working voltage     | 9V                   | 12V     | 16V |      |
|                 | Video format        | MPEG4                |         |     |      |
|                 | Resolution          | Up to VGA @ 30fps    |         |     |      |
|                 | Power consumption   | < 450 mA             |         |     |      |
| Receiver (RX)   | Working voltage     | 9V                   | 12V     | 16V |      |
|                 | Power consumption   | < 350 mA             |         |     |      |
|                 | Monitor             | LCD Display          |         |     |      |
|                 | Video output        | NTSC                 |         |     |      |
| RF Section      | Frequency range     | 2402 ~ 2478 MHz      |         |     |      |
|                 | Frequency size      | 2 MHz                |         |     |      |
|                 | Transmitter power   | 13.31 dBm            |         |     |      |
|                 | Sensitivity         | -79 dBm              |         |     |      |
|                 | Distance            | Open area up to 200m |         |     | *    |
|                 | Working temperature | -20 ~ +70 °C         |         |     |      |

\* Transfer distance may affect by environment, weather, install angle, antenna type and more.

### Appearance

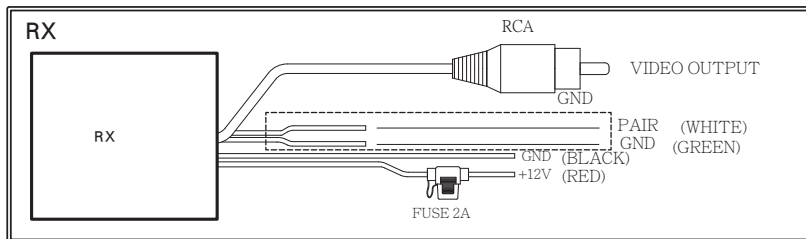
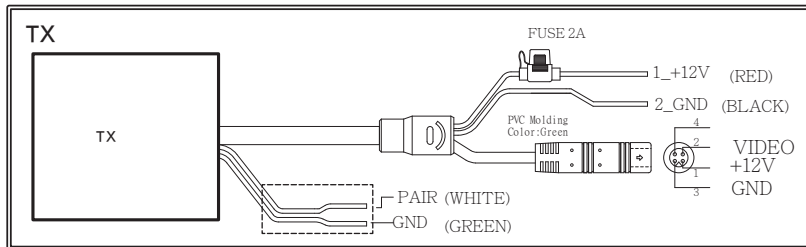
External antenna appearance is as followed:





### Wire connection position

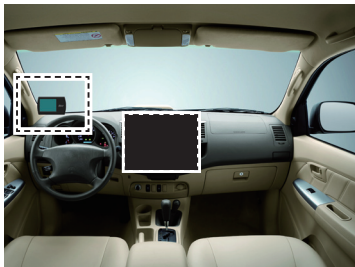
Please refer to the following diagram for wire connection position



Dot line of PAIR/GND wire represent cover by heat-shrinkable tube

### *Installation position*

Please refer to the following diagram for installation position. TX and RX installation position can be anywhere suitable except will affect driving safety.



Vehicle monitor installation position  
Can connect to external monitor or  
connect to 2-DIN monitor.



Backup camera  
installation position

\* Part of product number are not contain vehicle monitor and backup camera,  
please refer to [Product content]

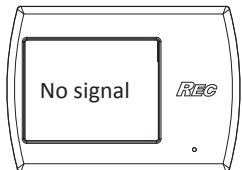
### *Installation method*

1. Install backup camera to proper position (if vehicle already have backup camera, please skip to 2.)
2. Connect backup camera with TX.
3. Connect TX power to backup light's power. ( wire connection position please refer to [Wire connection position])
4. Fix TX into proper position.
5. Connect RX power to ACC power. ( wire connection position please refer to [Wire connection position])
6. Connect RX video signal into vehicle monitor.
7. Turn on power and wait until monitor showup than finish.

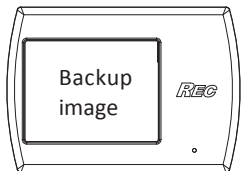
※ Connection position will be different for different vehicle monitor, please refer to your vehicle monitor's manual.

## *Operation*

1. Monitor show nothing when car is moving or not reversing.



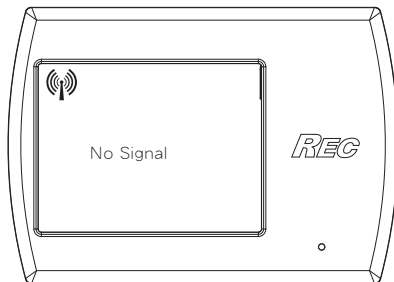
2. When shift into reverse gear, monitor will show up backup camera's image.



### *Pairing*

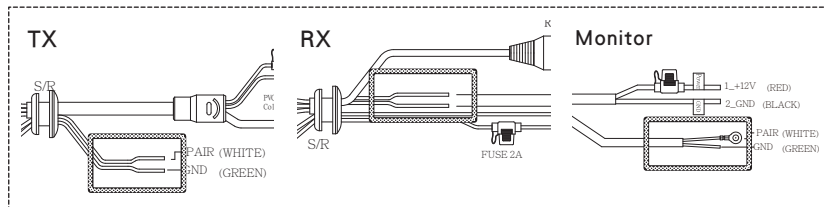
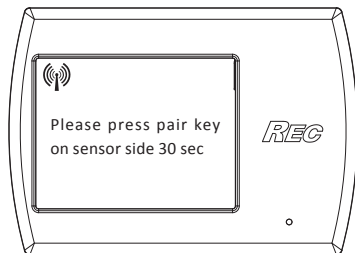
Our product is already pairing when first time deliver. You will need to pairing when one of the TX/RX breakdown, damage and replace for a new one. Please follow the following step to pairing.

1. Connect RX power into vehicle monitor
2. Take off RX and TX's heat-shrinkable tube.
3. Pull out white PAIR and green GND wire. ( please refer to [Wire connection position] for wire definition)
4. Turn on monitor power.
5. Monitor will show "No Signal" as followed.



### Pairing

6. Connect RX's white PAIR and green GND wire for 3~5 seconds.
7. Monitor will show " Please press pair key on sensor side 30 sec" as right diagram.
8. Connect TX's white PAIR and green GND within 30 seconds (short circuit) and wait until video show up then finish pairing.





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