

Wireless Camera & Reciever Kit





RVC-W1/RVC-W2

Wireless Camera & Receiver Kit



Introduction

Thank you for purchasing your EchoMaster Wireless Camera & Receiver.

This EchoMaster camera with receiver is designed to improve safety during driving by providing high quality images of surrounding areas and obstacles in the vicinity of the vehicle.

Please ensure you read and understand all aspects of this manual before fitting or using your EchoMaster camera. Choose a suitable mounting place dependant on the application. Ensure that there are no wiring harnesses or hoses/pipes located behind this panel before drilling.

Box Contents

RVC-W1

- Camera (with built in TX)
- Camera Power Cable
- 2 x Red Male Spades
- 2 x Antenna Caps

- ▶ Hole Saw
- Receiver (RX)
- 2 x Red T-tap
- 2 x 10mm screws
- 3 x Cable Ties
- Double Sided Tape
- User Manual

RVC-W2

- Camera (with built in TX)
- Camera Power Cable
- Power & Video Cable (Length 150mm)
- ▶ Receiver Extension Cable (Length 3657mm)
- 2 x Red Male Spades
- 2 x Antenna Caps
- ▶ Hole Saw
- Receiver (RX)
- 2 x Red T-tap
- 2 x 10mm screws
 - > 3 x Cable Ties
 - Double Sided Tape
 - User Manual

Pairing the Camera

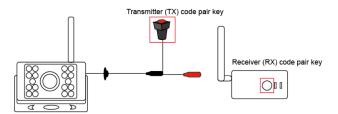
- 1. The Camera & Receiver are automatically paired. There is no need to pair again unless you need to replace the receiver module or camera
- 2. The pairing code is needed in the event of losing connection due to weak signal strength, but it this is rare.

How to pair:

When the message "Please press pair key on tx side" appears on the receiver (RX screen) Press and hold the receiver (RX) Pair Code key for 1-3 seconds.

Within 30 seconds Press and Hold the transmitter (TX) Pair Code Button for 1-3 seconds. Pairing will then start.

Once pairing is complete 'PAIR OK' will appear on the receiver (RX screen)



Wiring Diagram & Pin-Out

Camera wiring

Red (Power) - Locate the +Parking Lamp wire in the vehicle/trailer. Connect this wire to the camera red power cable

Black (Ground) - Locate a suitable location to ground (negative) the Black wire in the wiring harness. You may connect this wire to a factory ground point in the vehicle, or attach a ring terminal to the black wire and screw into the body of the vehicle/trailer. If you choose to screw into the body, clean the area of any paint or adhesives to allow for good metal-to-metal contact.

Wire connections are illustrated in the 2 diagrams on the next page.

Installation Guide Installation Guide

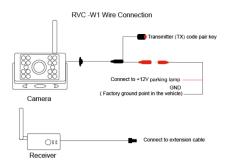


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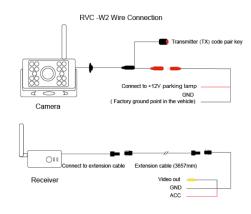
Wireless Camera & Receiver Kit

Wiring Diagram & Pin-Out (continued)

RVC-W1



RVC-W2



Specifications

Camera (with built-in TX)	
Image device	1/3 inch color sony CCD
TV system	NTSC
Effective pixels	811*494pixels
Sensing area	5.59mm x4.68mm
Sync. system	internal
Resolution	480 TV lines
Minimum illumination	0Lux/(infrared LED on)
Night Vision range	More than 8M
Lens angle	120 degrees

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S/N ratio	more than 48db (AGC-OFF)
Electronic shutter	1/10,000 seconds
Video output	RCA connector, 1.0vp-p, 75ohm
Current consumption	<=300mA
Power supply	DC 12V±10%
Operating temperature	-20 to 65 degrees centigrade, RH95% Max.
Storage temperature	-35 to 85 degrees centigrade, RH95% Max.
Dimensions:	87mm*61.6mm*65.9mm
Weight	500g
Other items	automatic white balance, AGC and BLC

Transmitter (TX)		
DC Characteristics		
POWER SUPPLY	DC 12V±10%	
Environmental Specification		
Operating Temperature	"-20~+65 °C	
Storing Temperature	"-35~+85 °C	
Operating humidity	85%RH	
BASEBAND SPEC		
POWER ON	2S Max.	
Latency	150mS Max.	
Resolution	VGA (640X480) /D1 (720X480)	
Frame Rate	VGA:30f/s/D1: 25f/s	
Video Codec	MPEG4	
Video in System	PAL/NTSC Auto detection	
Voice Sample Rate	16KHz/12BIT ADC ADPCM/PCM	
Voice Frequency Band	20Hz~20KHz	
ID BIT	Pairing / 22(4KK)	
SYSTEM Architecture	RISC(32Bit) SOC	

email - gmsupport@echomaster.com (US) - tel - 866-766-2267

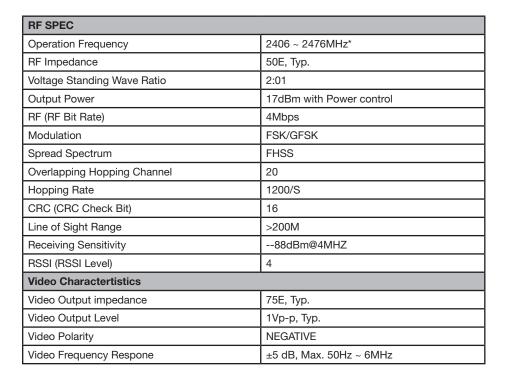
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Receiver (RX)		
DC Characteristics		
POWER SUPPLY	DC 12V±10%	
Current Consumption	Max.230mA	
Environmental Specifications		
Operating Temperature	"-20~+65 °C	
Storing Temperature	"-35~+85 °C	
Operating humidity	85%RH	
Baseband Spec		
POWER ON	2S Max.	
Latency	150mS Max.	
Resolution	VGA 640X480/ D1 720X480	
Frame Rate	VGA:30f/s/D1: 25f/s	
Video Decode	MPEG4	
Video in System	PAL/NTSC Auto detection	
Voice Sample Rate	16KHz/16BIT DAC ADPCM/PCM	
Voice Frequency Band	20Hz~20KHz	
RF Spec		
Operation Frequency	2406~ 2476MHz*	
RF Impedance	50D, Typ.	
Voltage Standing Wave Ratio	2:01	
Output Power	≥17dBm with Power control	
RF Bit Rate	4Mbps	
Modulation	FSK/GFSK	
Spread Spectrum	(FHSS)	
Overlapping Hopping Channel	20	
Hopping Rate	1200/S	
CRC (CRC Check Bit)	16	
Line of Sight Range	>200M	
Receiving Sensitivity	88dBm@4MHZ	
RSSI (RSSI Level)	4	

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AGREEMENT: End user agrees to use this product in compliance with the instructions and terms of use above and with all State and Federal laws. ECHOMASTER provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conformity with those instructions or other misuse of its product. If you do not agree, please discontinue use immediately and contact EchoMaster. This product is intended for off-road use and passenger use only.





Clearwater Florida 33760 EchoMaster is a brand of AAMP Global.

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