

2.4GHz RF (Tx) Color Camera

Item No. : V-2297RF

1. PRODUCT DESCRIPTION

The RF color camera unit consists of a color CMOS camera and a transmitter in a durable metal casing, and transmit a video signal by radio ; replacing complicated cabling.

Features :

- 1/3" format color camera with a transmitter
- 2.4GHz carrier frequency, 50mW
- Auto white balance, auto gain control & auto exposure
- Durable metal casing
- Compact size
- Low power consumption, 55mA

2. SAFETY

- When installing the unit, take care that the power cord does not become trapped or damaged by sharp edges.
- Before connecting a power source to the unit, make sure that a supplied voltage is correct.
- Disconnect the power cord when the unit is to be out of use for lengthy periods.
- Never replace a damaged power cable personally.
- Never bend or give a pressure to an antenna of the unit from any directions.

3. INSTALLATION AND OPERATION

- (1) Make sure setting 2.4GHz video RF receiver and color monitor units properly.
- (2) Turn RF receiver and monitoring units on, and select a frequency channel on a RF receiver.
- (3) Connect power plug of the unit to a proper power supply source. (input voltage : 7.5 – 12vdc)
- (4) Open a rear cap of the RF camera unit.
- (5) Make a fine adjustment of a Tx radio frequency, to a Rx channel selected, by carefully rotating a VR located at right top side of the transmitter board with a non-metallic adjustment driver while observing a picture quality on a monitor for a stable and best reproduction.

Caution - Be careful not to exceed adjustment range of the VR. If not, it can result a damage on the VR.

- Be careful not to touch any other parts of the board except the VR with a adjustment tool.

- (6) Close a rear cap back.
- (7) Place and mount the camera unit properly at a location with a desired view.

4. CARE AND MAINTENANCE

The unit is maintenance-free, therefore never open it except for frequency and focus setting adjustments.

The unit should be cleaned externally only with a soft, dry cloth or brush.

5. TECHNICAL DATA

Operating voltage : 7.5 – 12vdc
Current consumption : approx. 55mA
Imager : 1/3" color CMOS sensor
Number of pixels : 510 X 492
Gamma correction : 0.45
Transmitter frequency : 2.411GHz – 2.473GHz
Modulation : FM
Output power : 10dBm
Channel bandwidth : 8MHz
Phase noise @10k : - 86dBc/Hz
Frequency stability : -0.1% or better

Line of sight : 300 feet (strongly dependent on surrounding conditions)

Dimension : Ø31 X 66mm (without antenna)

[The specifications are subject to change without a notice.]

6. FAULT RECTIFICATION

No picture : RF camera, receiver or monitor not correctly connected or not supplied with power

The distance between RF camera and receiver is too great.

A frequency of the camera has been adjusted differently from the receiver channel selected.

Noisy picture : The distance between camera and receiver is too great.

A frequency of the camera has been adjusted differently from the receiver channel selected.

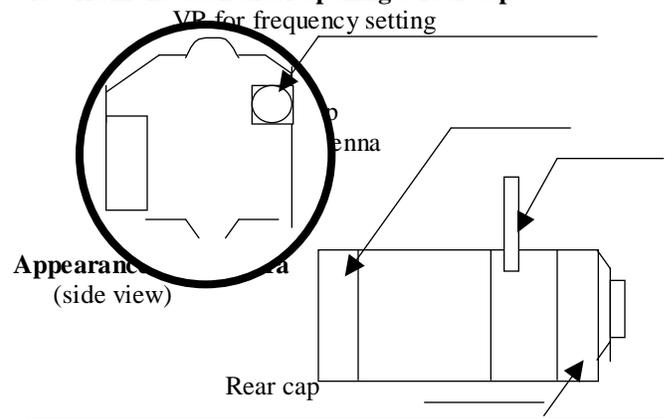
Metallic barriers exist at between camera and receiver.

The RF camera and/or receiver antennas are placed or oriented disadvantageously.

A strong source of interference exists at nearby.

Supply voltage of a power source is too small.

View from the back after opening a rear cap



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FCC ID : PI2 MEICTR24A1

This device complies with part 15 of the FCC Rules. Operation is subject to the followings two conditions;
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Caution of this party authorized