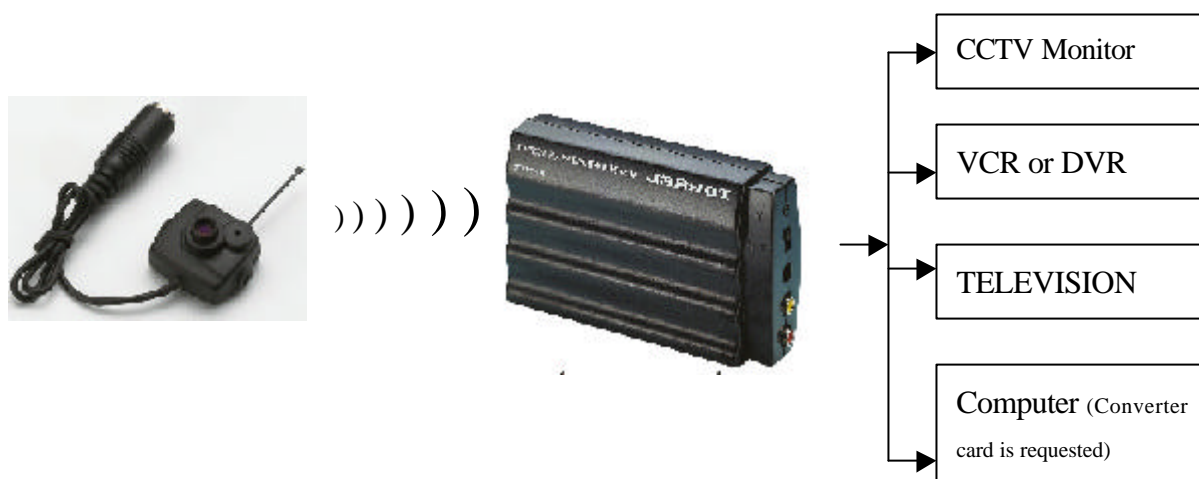


## **ALM-2471 2.4 GHz Wireless Video/Mic. Mini. Camera TX + Receiver**

Include: 1pc Video/Mic. camera TX, 1pc Receiver, 2pcs Adapter, 1pc A/V Cable, 1pc 9V battery snap, and accessory pack

The ALM -2471 include a wireless video/Mic. super mini camera transmitter and a receiver unit. The mini camera transmitter features super miniature size, video/Mic. performance, omni-directional antenna, and operates on 5 – 12vdc. The receiver features built-in directional antenna and outstanding A/V reception quality. This system permits the wireless transmission of Video/Mic. signal over a mini. distance of 300 meters in line-of-sight.



**NOTE:** Best results are achieved where there is clear “line of sight” between the camera transmitter and the receiver. Try to avoid obstacles such as trees, walls, cars, trucks and buildings. Transmitting over water and in the rain will reduce performance. Interference from certain electronic equipment or the moving human body can also effect the range obtainable.

For best reception, position the antennas of the transmitter and receiver 4.5 to 6 feet (1.5 to 2m) above the ground. Please test all devices before final installation because the transmission quality can often be improved by moving the components slightly.

Turn off the camera transmitter and receiver if the system is not in use.

Do not touch the antennas when the system is switched on.

Do not place the receiver behind a monitor.

### **INSTALLATION:**

- 1) The Mini camera TX features omni-directional antenna which is most effective when used in the **UPRIGHT** position.
- 2) Connect both the mini. camera transmitter and the receiver to their respective power supplies.
- 3) Connect the receiver to the equipment you wish to transmit to [monitor, TV, VCR, .etc.]
- 4) After connecting both the mini camera TX and the RX to their respective power supplies, obtain the best picture by adjusting the position of the mini camera TX and the receiver unit to suit. Try slightly different locations of either unit for optimum results.

**\* (Direct the antenna of the receiver towards the antenna of the transmitter. The integrated antenna inside the case of the receiver is located at the opposite end of the connectors.**

### **FEATURES:**

#### **Mini Video/Mic. Camera Transmitter:**

- 1) Miniature size for a wide range of applications.
- 2) Low power operating DC5 - 12V
- 3) Low power consumption of 80mA
- 4) Very steady and truly video/Mic. performance.
- 5) Outstanding transmitting range of 100M in L-O-S.
- 6) FCC and EC-R&TTE approved.

## **IMPORTANT:**

- 1) Avoid "Oily" locations.
- 2) Don't place above or near a heat source which may cause the equipment to overheat.
- 3) Microwave ovens can cause interference and diminish the quality of the signal if the mini TX or receiver is located close by.
- 4) Beware of humid locations. Water droplets or spray may damage the units. If condensation does occur, do not use until the equipment has dried out.
- 5) Do not use in temperatures exceeding 55 degC.
- 6) Never paint or attach metallic labels and sticker of any kind.
- 7) Do not use two transmitters and receivers operating at the same time in the same area.  
This will result in picture and sound interference.

## **SPECIFICATIONS:**

### **Mini Video/Mic. Camera Transmitter:**

- |                       |   |
|-----------------------|---|
| 1) Frequency:         | <b>One channels in 2.4 GHz frequency band</b> |
| 2) RF output power:   | FCC compliant                                 |
| 3) Transmitter range: | 100 meters in L-O-S                           |
| 4) Modulation:        | FM  |
| 5) Operating power:   | DC5V – 12V                                    |
| 6) Power consumption: | 80mA  |
| 7) Built-in Mic.:     | High sensitive Mic.                           |
| 8) Antenna:           | Omni-directional integrated antenna           |
| 9) Size:              | 22.5 x 26.5 x 18mm                            |
| 10) Temperature:      | -10 to +55 degC                               |

### **Color CMOS Camera:**

- |   |  |
|---|--|
| 10) Pixels:                               | 365K (PAL), 250K(NTSC)   |
| 11) Auto Electronic Exposure:             | 1/60 – 1/15000 sec.  |
| 12) Automatic Exposure/Gain/White balance |  |
| 13) Mini. Illumination:                   | <3 <a href="#">Lux@1.2</a>   |
| 14) Optional Lens:                        | (ALM-2471G) Board Lens: F/2.0mm, f=5.6mm/View angle: 64 degree / Dia.: 6.5mm<br>(ALM-2471P) Pinhole Lens: F/5.0mm, f=5.5mm/View angle: 69 degree / Dia.: 6.5mm |

## **Receiver:**

- |                        |  |
|------------------------|--|
| <b>1) Frequency:</b>   | <b>Four channels in 2.4 GHz frequency band</b> |
| 2) Video input/output: | 1Vp-p/75 ohm                                   |
| 3) Audio input/output: | 0.8V/600 ohm                                   |
| 4) Antenna:            | 60 degree directional antenna                  |
| 5) Audio bandwidth:    | 50 –17000 Hz                                   |
| 6) Operating power:    | DC12V  |
| 7) Power consumption:  | 180mA  |
| 8) Size:               | 150x88x40mm                                    |

## **TROUBLE SHOTTING:**

- 1) Poor picture and sound: Realign antennas, slightly adjust the position of the Mini Camera TX or receiver.
- 2) Line only-no picture: Check to confirm there is no microwave oven or other wireless equipment operating close by.
- 3) Picture ghosting: Check for interference caused by obstacles such as trees, buildings and shrubs, etc.  
Select new transmitter and /or receiver site.
- 4) No picture: Check the receiver to confirm it is turned "ON" and make sure the A/V connection of the RX is not plugged the wrong way around.

Notice: The changes or modifications not expressly approved by the party responsible for compliance Could void the user's authority to operate the equipment.

Important Note: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void User's authority to operate the device.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATIONS IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE, MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNESRIED OPERATION.

## **ALM-2472 2.4 GHz Wireless Super Mini. Camera Transmitter + Receiver**

Include: 1pc Video mini camera TX, 1pc Receiver, 2pcs Adapter, 1pc A/V Cable, 1pc 9V battery snap, and accessory pack

The ALM-2472 include a wireless super mini camera transmitter and a receiver unit. The mini camera transmitter features super miniature size, omni-directional antenna, and operates on 5 – 12vdc. The receiver features built-in directional antenna and outstanding A/V reception quality. This system permits the wireless transmission of A/V signal over a mini. distance of 300meters in line-of-sight.

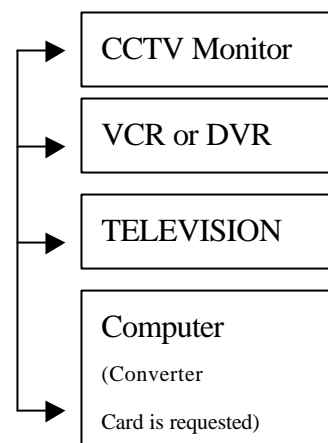
### **Pinhole “A” type**



### **Pinhole “B” type**



)))



**NOTE:** Best results are achieved where there is clear “line of sight” between the camera transmitter and the receiver. Try to avoid obstacles such as trees, walls, cars, trucks and buildings. Transmitting over water and in the rain will reduce performance. Interference from certain electronic equipment or the moving human body can also effect the range obtainable.

For best reception, position the antennas of the transmitter and receiver 4.5 to 6 feet (1.5 to 2m) above the ground. Please test all devices before final installation because the transmission quality can often be improved by moving the components slightly.

Turn off the camera transmitter and receiver if the system is not in use.

Do not touch the antennas when the system is switched on.

Do not place the receiver behind a monitor.

## **INSTALLATION:**

- 1) The Mini camera TX features omni-directional antenna which is most effective when used in the **UPRIGHT** position.
- 2) Connect both the mini. camera transmitter and the receiver to their respective power supplies.
- 3) Connect the receiver to the equipment you wish to transmit to [monitor, TV, VCR, .etc.]
- 4) After connecting both the mini camera TX and the RX to their respective power supplies, obtain the best picture by adjusting the position of the mini camera TX and the receiver unit to suit. Try slightly different locations of either unit for optimum results.

**\* (Direct the antenna of the receiver towards the antenna of the transmitter. The integrated antenna inside the case of the receiver is located at the opposite end of the connectors.**

## **FEATURES:**

### **Mini. Camera Transmitter:**

- 1) Miniature size for a wide range of applications.
- 2) Low power operating DC5 - 12V
- 3) Low power consumption of 80mA
- 4) Very steady and truly video performance.
- 5) Outstanding transmitting range of 300M in L-O-S.
- 6) R&TTE, EMC. LVD approve is pending.

## **IMPORTANT:**

- 1) Avoid "Oily" locations.
- 2) Don't place above or near a heat source which may cause the equipment to overheat.
- 3) Microwave ovens can cause interference and diminish the quality of the signal if the mini TX or receiver is located close by.
- 4) Beware of humid locations. Water droplets or spray may damage the units. If condensation does occur, do not use until the equipment has dried out.
- 5) Do not use in temperatures exceeding 55 degC.
- 6) Never paint or attach metallic labels and sticker of any kind.
- 7) Do not use two transmitters and receivers operating at the same time in the same area.  
This will result in picture and sound interference.

## **SPECIFICATIONS:**

### **Mini Video Camera Transmitter:**

- |                       |   |
|-----------------------|---|
| 1) Frequency:         | <b>One channels in 2.4 GHz frequency band</b> |
| 2) RF output power:   | FCC compliant                                 |
| 3) Transmitter range: | 100 meters in L-O-S                           |
| 4) Modulation:        | FM  |
| 5) Operating power:   | DC5V – 12V                                    |
| 6) Power consumption: | 80mA  |
| 7) Antenna:           | Omni-directional integrated antenna           |
| 8) Size:              | 22.5 x 26.5 x 18mm                            |
| 9) Temperature:       | -10 to +55 degC                               |

### **Color CMOS Camera:**

- |   |  |
|---|--|
| 10) Pixels:                               | 365K (PAL), 250K(NTSC)                   |
| 11) Auto Electronic Exposure:             | 1/60 – 1/15000 sec.                      |
| 12) Automatic Exposure/Gain/White balance |  |
| 13) Mini. Illumination:                   | <3 <a href="#"><u>Lux@1.2</u></a>        |
| 14) Pinhole Lens:                         | f=5.6mm/Field angle: 60 deg. (Diagonal)  |
| "A" type:                                 | F/2.0mm, f= 5.6mm/View angle: 60 degrees |
| "B" type:                                 | F/2.0mm, f= 3.8mm/View angle: 90 degrees |

### **Receiver:**

- |                        |  |
|------------------------|--|
| 1) Frequency:          | <b>Four channels in 2.4 GHz frequency band</b> |
| 2) Video input/output: | 1Vp-p/75 ohm                                   |
| 3) Audio input/output: | 0.8V/600 ohm                                   |
| 4) Antenna:            | 60 degree directional antenna                  |
| 5) Audio bandwidth:    | 50 – 17000 Hz                                  |
| 6) Operating power:    | DC12V  |
| 7) Power consumption:  | 180mA  |
| 8) Size:               | 150x88x40mm                                    |

## **TROUBLE SHOOTING:**

- 1) Poor picture and sound: Realign antennas, slightly adjust the position of the Mini TX or receiver.
- 2) Line only-no picture: Check to confirm there is no microwave oven or other 2.4 GHz equipment operating close by.
- 3) Picture ghosting: Check for interference caused by obstacles such as trees, buildings and shrubs, etc.  
Select new transmitter and /or receiver site.
- 4) No picture: Check the receiver to confirm it is turned "ON" and make sure the A/V connection of the RX is not plugged the wrong way around.

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