

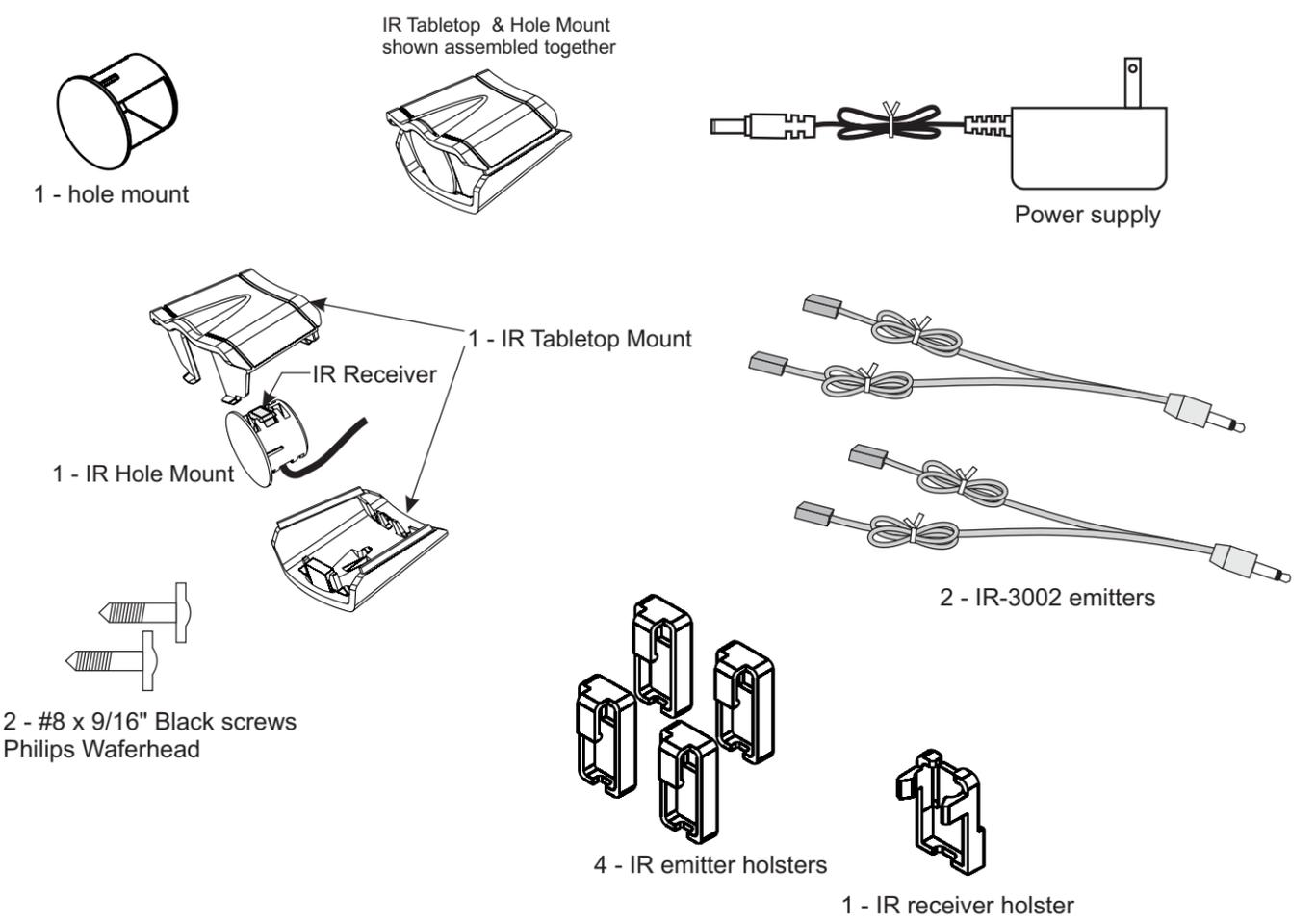
**IR-6001
All-In-One IR System User Guide**

2 Year Limited Warranty

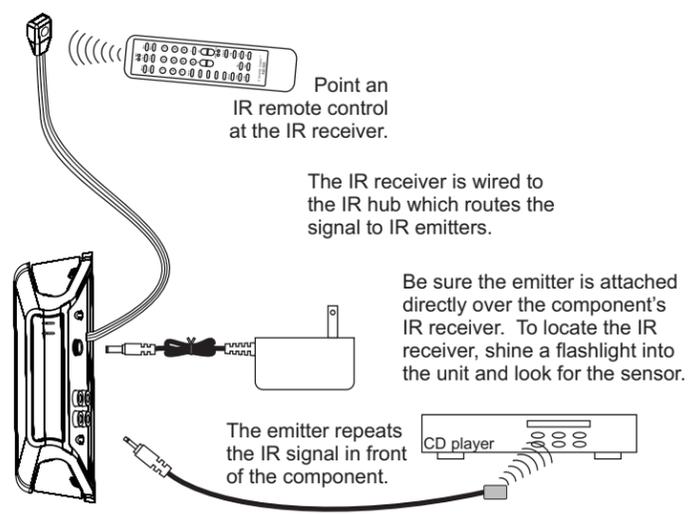
Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for two years from the date of original purchase from an authorized distributor. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, acts of God, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser when purchased from an authorized reseller, and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided. Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton. This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center. Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

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The IR-6001 includes these items:



How IR repeating works



Specifications: (typical)

Power Supply Voltage:	12vDC 250mA switching
IR Freq. range supported:	36 kHz - 60 kHz
IR pickup range:	40 ft. @ 38kHz, 20 ft. @ 56kHz
IR receiver head dimensions:	0.65" x 0.35" x 0.25"
IR emitter outputs:	3
Color:	Black

*Specifications subject to change without notice.

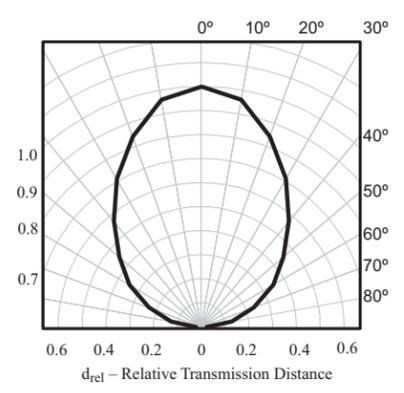
Directivity of IR Sensor

The effective receive distance of all IR receivers changes when the IR remote control is not directly in front of the IR sensor.

The graph below describes the performance of the IR sensor device used in this Channel Vision IR receiver. Please note that the graph below marks the distance as a percentage of the maximum distance. So at 0°, the distance is 1.0 (or 100%) and at 30°, the distance is 0.7 (or 70%) and so on.

Actual transmission distances are dependent upon frequency of remote control (40kHz has max range) and luminosity of remote control (i.e. Some remotes are brighter than others.)

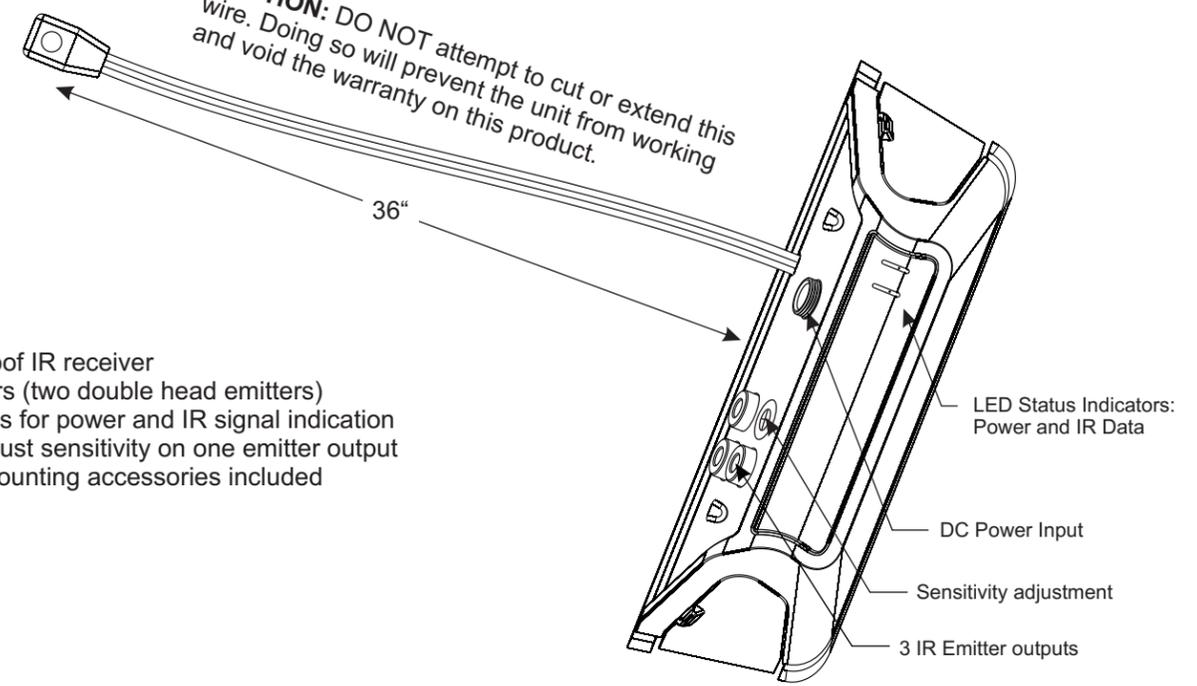
Under ideal conditions, ranges of >40 feet are possible.



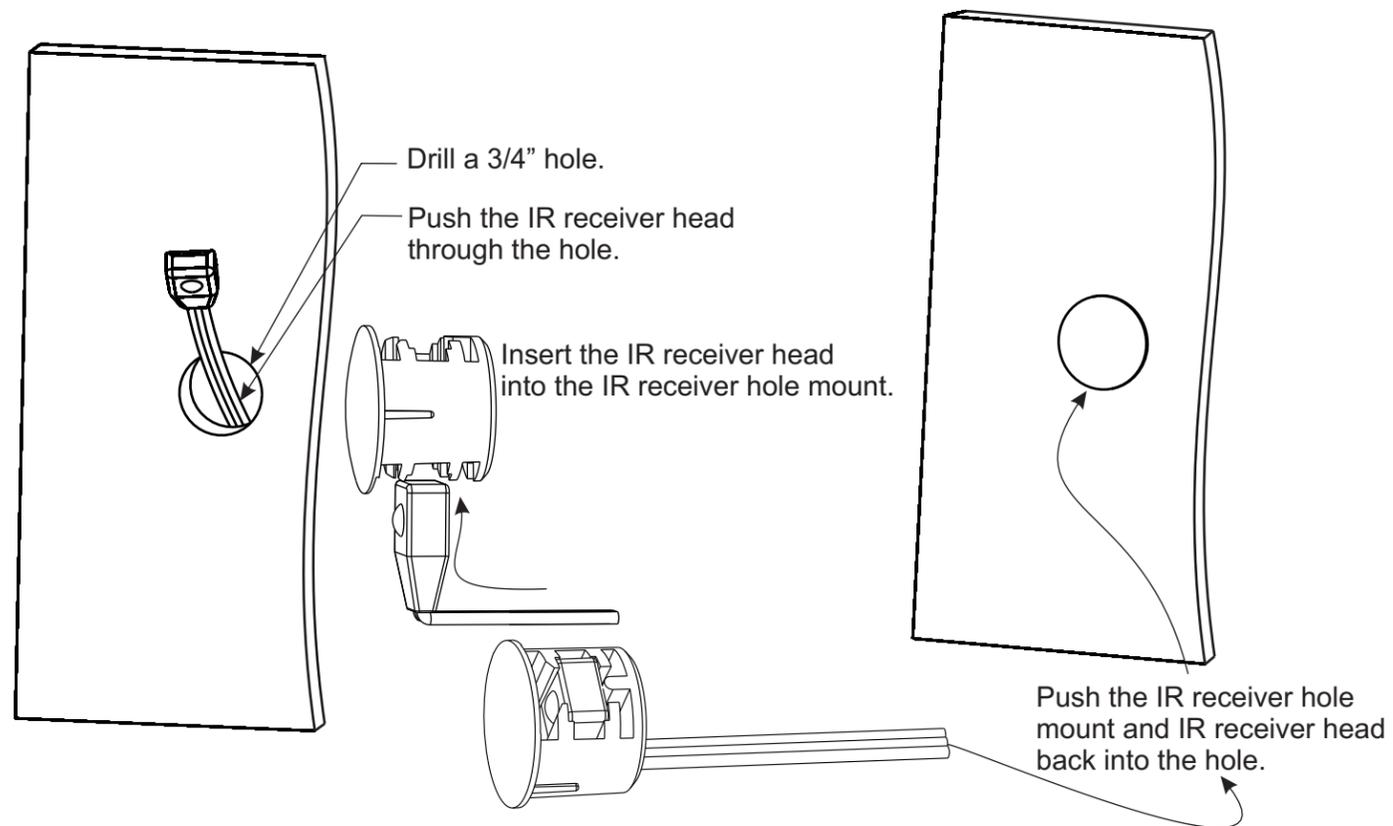
CAUTION: DO NOT attempt to cut or extend this wire. Doing so will prevent the unit from working and void the warranty on this product.

Features:

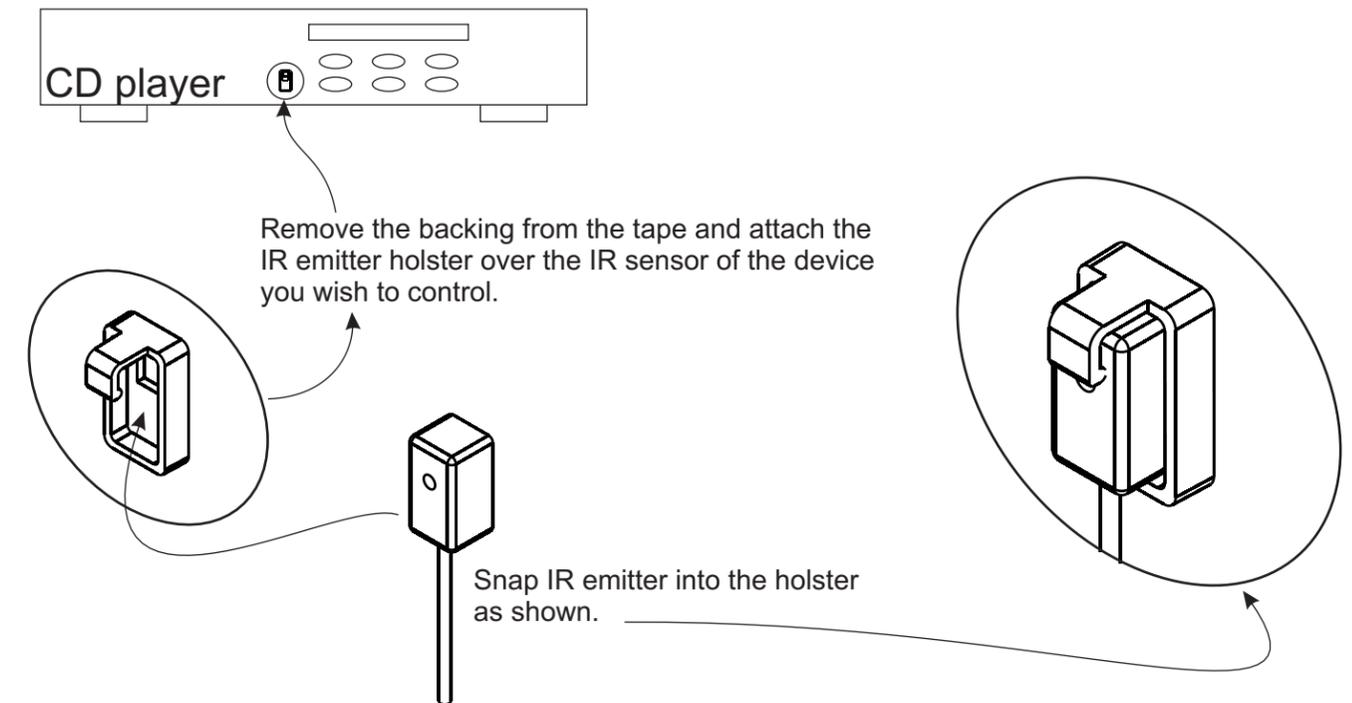
- ✦ Plasma Proof IR receiver
- ✦ 4 IR emitters (two double head emitters)
- ✦ Status LEDs for power and IR signal indication
- ✦ Knob to adjust sensitivity on one emitter output
- ✦ Versatile mounting accessories included



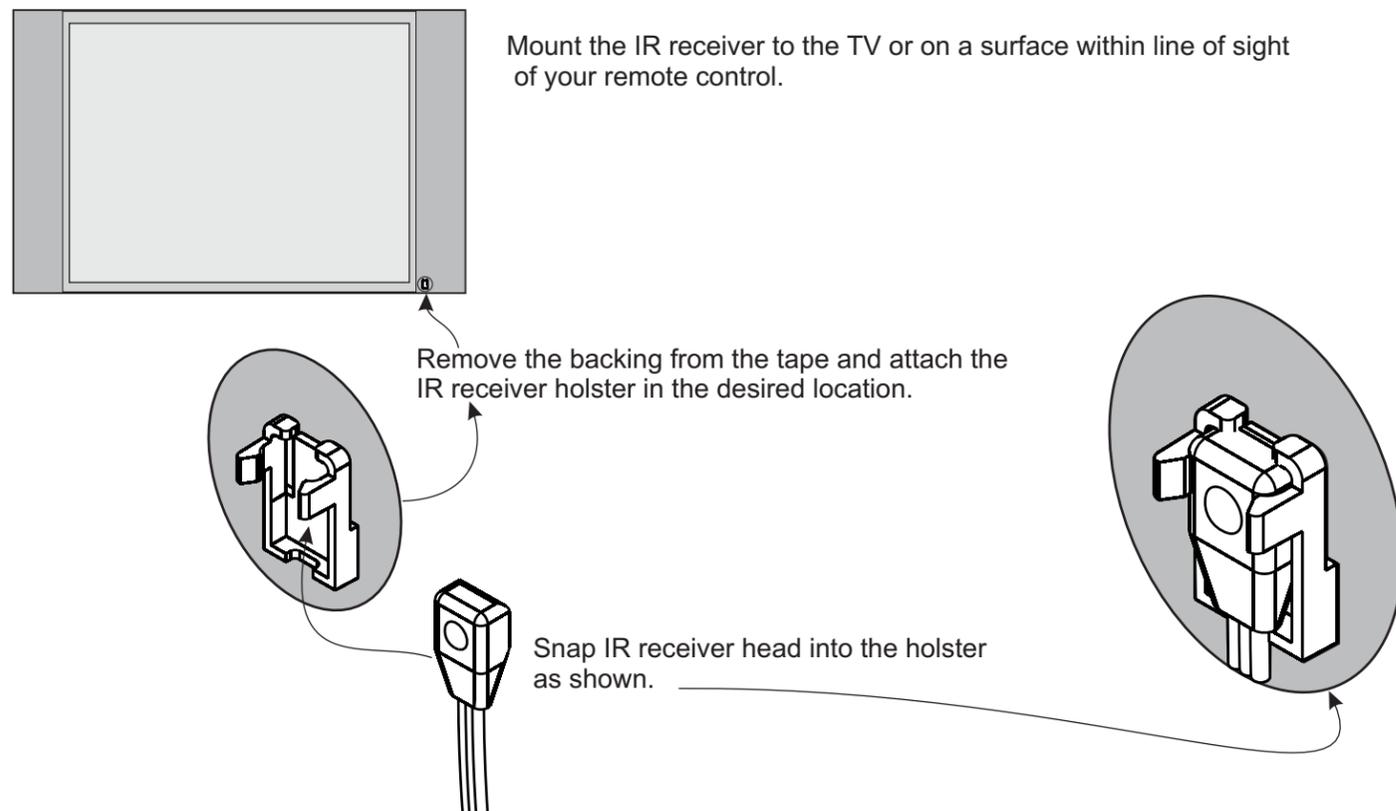
Mounting the IR receiver: Option 2 - Using the hole mount



Mounting the IR emitter



Mounting the IR receiver: Option 1 - Using the holster



Problem: IR not working

Troubleshooting:

1. Check to see if the IR light is solid. If it is, the unit may need to be sent in for repair.
2. Do not cut the IR receiver. If you are cutting the IR emitters, verify the polarity is correct. If it is not correct, the IR light on the product may be lit up solid. Try a non cut emitter to see if the IR-6001 will function in it's normal state.
3. Move around IR emitters on the face of the boxes.
4. Place the IR emitter 3 inches away from the box to see if it functions.
5. Plug your emitter into the adjustable output and adjust the sensitivity knob up or down.
6. Change batteries in the remote.
7. Place electrical tape over the IR emitters.
8. Using a flashlight, locate the IR head on the device you are trying to control and place the IR emitter directly over the IR eye.

Problem: IR working intermittently

Troubleshooting:

1. Do not cut the IR receiver. If you are cutting the IR emitters, verify the polarity is correct.
2. Try a non cut emitter to see if the IR-6001 will function in it's normal state.
3. Move around IR emitters on the face of the boxes. Place the IR emitter 3 inches away from the box to see if it functions.
4. Plug your emitter into the adjustable output and adjust the sensitivity knob up or down.
5. Change batteries in the remote.
6. Place electrical tape over the IR emitters.
7. Using a flashlight, locate the IR head on the device you are trying to control and place the IR emitter directly over the IR eye.

Problem: IR only works at close range

Troubleshooting:

1. If you are cutting the IR emitters, verify the polarity is correct.
2. Try a non cut emitter to see if the IR-6001 will function in it's normal state. If you are cutting the emitters, it is recommended that you do not exceed 100'.
3. Move around IR emitters on the face of the boxes.
4. Place the IR emitter 3 inches away from the box to see if it functions.
5. Plug your emitter into the adjustable output and adjust the sensitivity knob up or down.
6. Change batteries in the remote.
7. Place electrical tape over the IR emitters.
8. Using a flashlight, locate the IR head on the device you are trying to control and place the IR emitter directly over the IR eye.

Problem: Unit does not power on

Troubleshooting:

1. Check the power supply with a volt meter. (Center positive)
2. Using a small flathead screwdriver, carefully spread the center pin inside the female power connector on the IR-6001.