

# REMOTE CONTROL BENDER

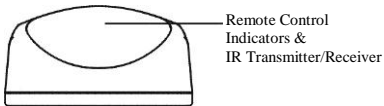
## OWNERS MANUAL



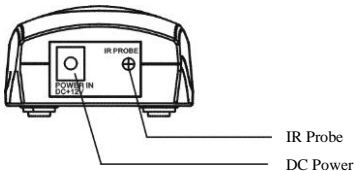
CE FC

# Location of Controls

## Bender Front



## Bender Back



## Accessory



DC 12 V, AC 120V/230V or 240V  
Adaptor x1



Infrared Extender X 1

## Caution:

This equipment has been tested and found to comply with CE regulation. These regulations 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 this manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular situation. 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:

Reorient or relocate the receiving antenna

Increase the distance between the interfered equipment and the receiver

Connect the interfered equipment into an outlet on a circuit which is different from that the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## Important Safety Precautions

- To prevent fire or shock hazard, do not submerge or expose this products to water
- To avoid electric shock, do not open this units. The Bender contains no user serviceable parts. Doing so will void the warranty
- Use only the power adaptor provided with the Bender
- Do not overload wall outlets or extension cords.
- If you are experiencing difficulty with this products, do not attempt to service it yourself. Please call your vendor for assistance.

# Product Description

The Bender Infrared Remote Control Extender enables you to extend the range and angles of your present Infrared Remote Control

Unlike ordinary remote controls which are only effective in close range." line of sight" use, The Bender can receive the IR signal from your remote controller and retransmit it via an IR probe to any devices. Such method can extend the angle and distance of original IR signal.

## Applications

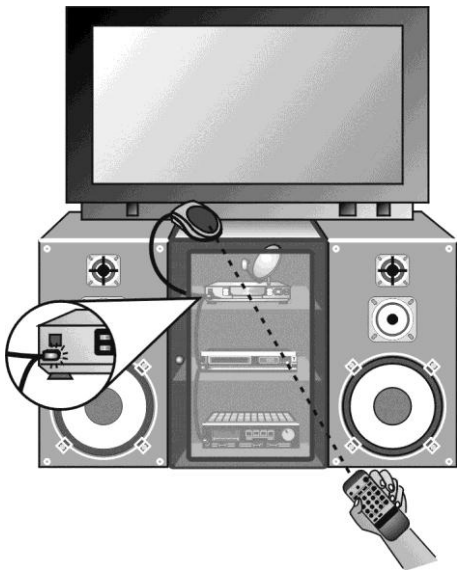
The Remote operation of electronics products that utilize IR (Infrared) remote control technology such as:

- Satellite Receivers
- Televisions
- VCR's (Video Cassette Recorders)
- CD's (Compact Disc)
- DVD's (Digital Video Disc)
- LDP's (Laser Disc Players)
- Cable Converter Boxes
- Audio / Hi-Fi Stereo Systems
- Any (IR) Remote Controlled Devices

"Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device."

# Application Diagram

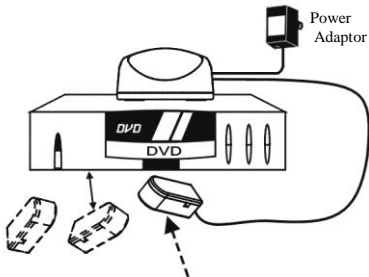
## Bending of the IR Signal



# Installation & Operation Guide

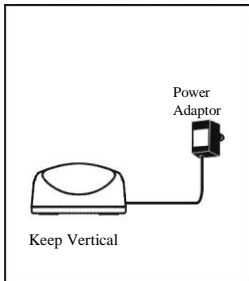
Picture 1

## Working with extender probe

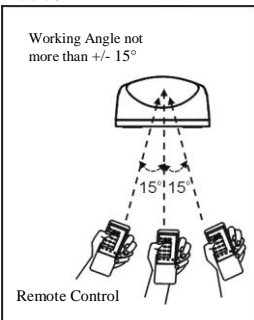


Make sure the IR probe is stuck toward IR sensor receiving Window with proper position (about within 0.5M and working angles  $\pm 15^\circ$ ).

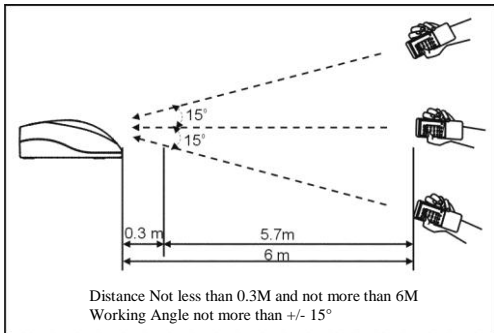
Picture 2



Picture 3



Picture 4



## Care and Maintenance

- Keep the Bender dry. If it gets wet, wipe it dry immediately.
- Use and store the Bender only in normal temperature environments. Extreme temperature can shorten the life of electronic devices
- Handle the Bender gently and carefully. Dropping it can damage the circuit board and can cause it to work improperly.
- Keep the Bender away from dust and dirt, which can cause premature wear of parts.
- Wipe the Bender with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents.

## Specifications

Operating Voltage .....	120 VAC,60Hz / 230 or 240 VAC, 50Hz/ DC 12V, 100mA(Min.)
Power Consumption .....	1 Watts Max.
Effective operating range.....	6M(Min.)
Infrared Receiver range: Tuning Frequency.....	38 KHz
Extender Probe.....	3 IR probe @2M