

HOME THEATER PROJECTOR with Bluetooth® Wireless Technology

OWNER'S MANUAL

PLEASE READ BEFORE OPERATING THIS EQUIPMENT.

MODEL: MP601

IMPORTANT SAFETY INSTRUCTIONS



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, within an equilateral triangle, is intended to alert user to the presence of uninsulated "dangerous voltage" within the product's enclosure, that may be of sufficient magnitude to constitute a risk of electric.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

FCCWARNING:

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void users authority to operate this devices.

INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits 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 the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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 separation between the equipment and receiver.
- · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

FCC STATEMENT:

This device complies with part 15 of the FCC Rules. Operation 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 undesired operation. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Before using the unit, be sure to read all operating instructions carefully. Please note that these are general precautions and may not pertain to your unit For example, this unit may not have the capability to be connected to an outdoor antenna.

1. Read these instructions

All the safety and operating instructions should be read before the product is operated.

2. Keep these instructions

The sately and operating instructions should be retained for future reference.

3. Heed all warning

All warnings on the product and in the operating instructions should be adhered to.

4. Follow all instructions

All operating and use instructions should be followed.

5. Do not use this apparatus near water

Do not use the product near water and noisture, for example: near a bathtub,washbowl, kithen sink or laundry tub; in a wet basement; or near a swimming pool.

6. Clean only with dry cloth

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet and in the back or bottom are provided for ventilation, to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. this product should never be placed near or over a radiator or heat source. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. a grounding type plug has two blades and a third grounding prong. the wide blade or the third prong are provided for your safety. if the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lightning storms or when

- unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture does not operate normally, or has been dropped.

15. Power Source

The product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

16. Power lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords as this can result in a risk or fire or electric shock.

18. Object and liquid entry

Never push objects of any kind into the product through as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid on the product.

19. Outdoor antenna grounding

If an outside antenna is connected to the product, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National



Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge product, size of grounding conductors, location of antennadischarge product, connection to grounding electrodes and requirements for the grounding electrodes.

20. Service

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

21. Replacement parts

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire or electric shock or other hazards.

22. Safety check

Upon completion of any service or repairs to this product ask the service technician to perform safety checks to determine that the product is in proper operating condition

23. Wall or ceiling mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. Damage requiring service

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions.
 Adjust only those controls that are covered by the operating instructions, as an adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. When the product exhibits a distinct change in performance – this indicates a need for service.

25. Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Note:

Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged any way such as the following: the power-supply cord or plug has been damaged, liquid has been spilled into the unit, the unit has been exposed to rain or moisture, the unit has been dropped or the unit does not operate normally.

Additional Warnings and Precautions

- 1. Do not look directly into the projector light.
- 2. Don't touch the projector lens.
- Use of this unit near fluorescent lighting may cause interference regarding use of the remote. If the unit is displaying erratic behavior move away from any fluorescent lighting, as it may be the cause.

Remove & Close The Lens Cover



Assemble the supplied lens hood to the unit as illustrated below:



When finished, remove the lens hood from the unit:

REMOVE

Fig. 3



Fig. 4

Placing Your Projector

Your projector can be installed in four different configurations (see picture below):



Front Table:

Select this location with the projector placed near the floor in front of the screen. This is the most common way to position the projector for quick setup and portability.



Rear Table:

Select this location with the projector placed near the floor behind the screen.

NOTE: A special rear projection screen is required.





Front Ceiling:

Select this location with the projector suspended upside-down from the ceiling in front of the screen. **NOTE:** A projector mount is required to install the projector on a ceiling.

Rear Ceiling



Rear Ceiling:

Select this location with the projector suspended upside-down from the ceiling behind the screen. **NOTE:** A projector mount is required to install the projector in a ceiling.

A special rear projection screen is required.

To Reduce Image Distortion

- Move the projector as close to the center of the screen as possible.
- The light beam from the projector should be perpendicular to the screen for a rectangular or square image.



Distance Between The Projector And Screen

Measure the distance between the projector and where you want to position the screen. This is the projection distance.



Distance	Screen Size
45.7 inch	37 inch
53.1 inch	45 inch
59.4 inch	50 inch
71.2 inch	60 inch
84.6 inch	72 inch

Installing your Projector in the Ceiling

When installing the projector in the ceiling, please purchase a projector mount recommended by an installation professional and follow the instructions that come with the mount.

Before installing the projector in the ceiling, please check to make sure the ceiling structure can support the weight of the projector and the mount. If in doubt, please ask the advice from an installation professional.

NOTE: Projector mount and screw(s) not included



Adjust The Vertical Location

Follow below picture to adjust the vertical location.



Adjust The Focus And Keystone

Follow the below picture to adjust the focus and trapezoidal screen.

Adjust the focus by turning the knob while observing the image pixels near the center of the screen. Optimal focus is obtained when the pixels are clearly visible. Depending on the projected screen size, the focus near the screen edges may be less sharp than the screen center.

Keystone image is created when the projector lens is projected from above or below the center of the screen. Keystone correction restores the distorted image to a rectangular or square shape.



Controls Of Remote



Install / Replace Battery Of Remote

BATTERY PRECAUTIONS:

- Follow these precautions when using a battery in this device:
- 1. Use only the size and type of battery specified.
- Be sure to follow the correct polarity when installing the battery as indicated in the battery compartment. A reversed battery may cause damage to the device.
- 3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
- If the batteries in the device are consumed or the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge the battery not intended to be recharged; it can overheat and rupture. (Follow battery manufacturer's instructions.)
- 6. Do not dispose of battery in fire. Battery may explode or leak.
- Clean the battery contacts and also those of the device prior to battery installation.



Controls Of Projector









- 1. LENS
- 2. ANGEL ADJ. Knob
- 3. VGA IN Port
- 4. IR Sensor
- 5. FOCUS ADJ. Knob
- 6. TRAPEZOIDAL ADJ. Knob
- 7. ▲/▼ Buttons
- 8. OK Button
- 9. POWER Indicator
- 10. POWER 🛈 Button

- 11. RETURN 🕤 Button
- 12. ◀/► Buttons
- 13. MENU 🔳 Button
- 14. SOURCE 🛨 Button
- 15. EAR PHONE Jack
- 16. AV IN Jack
- 17. TF Card Slot
- 18. HDMI 1 & 2 Ports
- 19. USB Port
- 20. DC IN Jack

Power Source

Connect the small plug from supplied AC/DC Adaptor to the DC IN Jack on the rear of unit then plug the AC/DC Adaptor to a wall outlet having AC 100-240V~; 50/60Hz.

NOTES:

- If you will not use the unit for an extended period of time, unplug the AC/DC Adaptor from wall outlet.
- The AC/DC Adaptor is intended to be correctly orientated in a vertical or floor mount position.



Main Button Operation

- U Press the button to turn on unit, press again to turn off.
- / SOURCE Press the button to select input source.
- **MENU** Press the button to enter projector menu.
- $\frac{1}{100}$ / $\frac{1}{100}$ Press the buttons to navigate and select screen item of menu.
- (**D**) / **EXIT** Press the button to return to previous status or exit the menu.
- Image: A state of the state
- Image: A state of the search next or previous file on USB / TF.
- VOL+ / VOL Press the buttons to select the sound level.
- Press the button to play/pause the playback of file on USB / TF card.
- FLIP Press the button to rotate / mirror projector screen
- **ZOOM** Press the button to select image scale.
- **I** Press to mute the audio. Press again to resume.

Connect HDMI Show The Image On Projector Screen

Refer to the following picture to connect a set top box, a BD/DVD player or a streaming player to the HDMI input.

- 1. Turn off the unit before connecting HDMI cable.
- 2. After connecting, press the **U** button to turn on unit, the power indicator power indicator will turn GREEN.
- 4. Press the \bigcirc button to turn off unit power.



Important Note:

If there is no sound from the internal speakers when playing media contents from a set top box, BD/DVD or streaming players connecting to the HDMI input, please check the set top box or the player's digital audio settings and make sure it is set to "PCM Stereo" mode.

Connect AV Show The Image On Projector Screen

Follow below picture to connect AV cable and device.

- 1. Turn off the unit before connecting AV cable.
- 2. Use AV cable to connect following the below figure.
- 3. After connecting, press the 🕐 button to turn on unit, power indicator will turn GREEN.
- 4. Press the
 → / SOURCE button to select AV mode and the video of AV device will be shown on projector screen.
- 5. Press the 🕛 button to turn off unit power.



Connect VGA Show The Image On Projector Screen

Follow below picture to connect VGA cable and device.

- 1. Turn off the unit before connect VGA cable.
- 2. Press the \bigcirc button to turn off power of your projector before connection.
- 3. After connect, press the 🕁 button to turn on unit, power indicator will turn GREEN.
- 5. Press the \bigcirc button to turn off unit power.



Please refer to the following table to adjust the output signal from computer.

Туре	Resolution		Frequency	Field Frequency
PC	VGA	640x480	31.5	60
			34.7	70
			37.9	72
			37.5	75
	SVGA	800x600	31.4	50
			35.1	56
			37.9	60
			46.6	70
			48.1	72
			46.9	75
	XGA	1024x768	40.3	50
			48.4	60
			56.5	70

NOTE: In order to get the sound from the unit, please connect AV IN cable when you connect VGA input.

Connect Audio Output (Aux Out / Line Out / Earphones)

Follow below picture to connect audio cable and device.

- 1. Press the U button to turn off power of your projector before connection.
- 2. Use audio cable to connect follow below figure.
- 3. After connect and turn on both units. Your projector sound from external device now.
- 4. After use , turn off both units.



Important Note:

If there is no sound from the stereo audio output when playing media contents from a set top box, BD/DVD or streaming players connecting to the HDMI input, please check the set top box or the player's digital audio settings and make sure it is set to "PCM Stereo" mode.

Install USB Device And TF (Micro SD) Card

Follow below picture to install USB and TF card.

Turn off the unit before install USB / TF card.



Using TF Card And USB Playback (Media Player)

Install USB / TF device:

- 1. Turn off the unit before installing USB / TF card.
- 2. Install the USB device into USB port / Install the TF device into TF slot.
- 3. After connect, press the 0 button to turn on unit and the power indicator light GREEN.
- 4. Press the 🗗 / SOURCE button to enter and use 🙀 ∕⊚ buttons to search the USB or TF.
- 5. After connecting, use 🛱 / 🛞 buttons to search the PHOTO / MUSIC / MOVIE / TEXT icon and press the 🕅 button to enter.
- 6. Use the 4/ button to select C and press $\bigcirc K$ button to enter.
- 7. Use ()/() buttons to search the correct file and press the () button to preview playback file and press () button of remote to start playback.
- 8. Press A / b button to fast search forward and rewind.
- 9. Press
- 10. During playback, press the 💓 button to pause and press again to resume.

NOTE: Remove USB / TF device, press the 🕛 button twice to turn off power FIRST.



Using Bluetooth Playback Audio

Pairing is the term used when two Bluetooth devices are connected wirelessly for the first time. This allows the devices to see each other and sets up a one to one communication channel between both devices.

Bluetooth Connection

- 1. Press the \bigcirc button to turn on unit.
- 2. Press the 🔳 / MENU button to enter the menu screen.
- 3. Use the \triangleleft / \blacktriangleright button to select right side menu.
- 4. Use the $\blacktriangle/ \blacksquare$ button to select Bluetooth speaker column.
- 5. Press the 🛞 button to select "Bluetooth Speaker On".
- Turn on your External Bluetooth Speaker and select to Bluetooth pairing mode.
- After a few seconds, near the BT logo will show the connected External Bluetooth Speaker name in the main function page.
- After connection is completed, the unit will sound through to External Bluetooth speaker.

Disconnect the Bluetooth

- 1. Press the I / **MENU** button to enter the menu screen.
- 2. Use the \triangleleft / \blacktriangleright button to select above menu.
- 3. Use the \blacktriangle / \blacksquare button to select Bluetooth speaker column.
- Press the ON button to select "Bluetooth Speaker Off" then the bluetooth will disconnect.

Sound Mode Standard Balance 0 Auto Volume Off Bluetooth Speaker Off

Using Projector Menu (Main Menu)

Press I / MENU button to enter projector menu.



Picture Mode	
Customer define	Parameter
Contrast	0-100
Brightness	0-100
Color	0-100
Sharpness	0-100

Color Temperature	
Customer define	Parameter
RED	0-100
GREEN	0-100
BLUE	0-100

Aspect Ratio	
4:3	The signal in a 4:3 aspect ratio projection image
16:9	The signal in a 16:9 aspect ratio projection image

Using Projector Menu (Sound Menu)

Press I / MENU button to enter projector menu, press



Sound Mode - User	Parameter
Treble	0-100
Bass	0-100

Using Projector Menu (Option Menu)

Press ■ / MENU button to enter projector menu, press ◀/▶ buttons to select **OPTION** menu.



Czech	English	French	Hungarian	Polish	Romanian	Slovak
Danish	Spanish	Croatian	Dutch	Portuguese	Serbian	Simplified Chinese
German	Greek	Italian	Norwegian	Romanian	Finnish	

General Specification

Bluetooth Version	4.1
Light Source Type	LED
Brightness Level	2000 lumens
Display Native Resolution	800 x 480 RGB
HDMI Input Supported	1080p , 1080i , 720p, 576i , 480p, and 480i
Video Resolution	
Power Consumption	30W Maximum
Power Souce	DC == 12V , 2.5A,⊖ -
Display Color	16.7M
Projection Size	37-100 inch
Input Ports	AV/ VGA / HDMI X 2
USB Port	Support USB device up to 32GB
	Support formats: Mpeg1, Mpeg2, Mpeg4, mp3, Jpeg
TF (Micro SD) Card	Support TF (Micro SD) card up to 32GB
	Support formats: Mpeg1, Mpeg2, Mpeg4, mp3, Jpeg

Package Includes

1 x Owner's Manual

1 x AC/DC Adaptor (Input: AC 100-240V~, 50/60Hz, 0.8A; Output: DC == 12V, 2.5A, ⊖– €– ⊕) 1 x Remote Control (Uses 2 x "AAA" Batteries, not included)

1 x Lens Cover

1 x Lens Hood

SPECIFICATIONS AND ACCESSORIES ARE SUBJECT TO CHANGE WITHOUT NOTICE

LIMITED WARRANTY

Craig Electronics warrants this product to be free from manufacturing defects in material and workmanship under normal use for a period of 180 days from date of purchase. If service is required, please return the product to the store where it was purchased for exchange; or, pack the unit in the original packing material with all accessories if applicable, a copy of your sales receipt and a Cashier's check or Money Order for \$18 (to cover shipping and handling costs) payable to Craig Electronics Inc. For consumers in Canada, please make sure that the cashier check or money order is redeemable through a U.S. bank. Ship your product freight pre-paid. Your unit will be repaired, replaced or if the unit cannot be repaired or replaced, a refund will be forwarded to you within four weeks of receipt of your unit. Please ship your unit to:

Craig Electronics Inc. 1160 NW 163 Drive Miami, FI 33269

This warranty is void if the product has been: a) Used in a commercial application or rental. b) Damaged through misuse, negligence, or abuse. c) Modified or repaired by anyone other than an authorized Craig service center. d) Damaged because it is improperly connected to any other equipment.

Note: This warranty does not cover: a) Ordinary adjustments as outlined in the Owner's Manual which can be performed by the customer. b) Damage to equipment not properly connected to the product. c) Any cost incurred in shipping the product for repair. d) Damage to the product not used in the USA.

This warranty is not transferable and only applies to the original purchase. Any implied warranties, including the warranty of merchantability, are limited in duration to the period of this expressed warranty and no warranty whether expressed or implied shall apply to the product thereafter.

Under no circumstance shall Craig be liable for any loss or consequential damage arising out of the use of this product. This warranty gives specific legal rights. However, you may have other rights which may vary from state to state. Some states do not allow limitations on implied warranties or exclusion of consequential damage. Therefore, these restrictions may not apply to you.

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