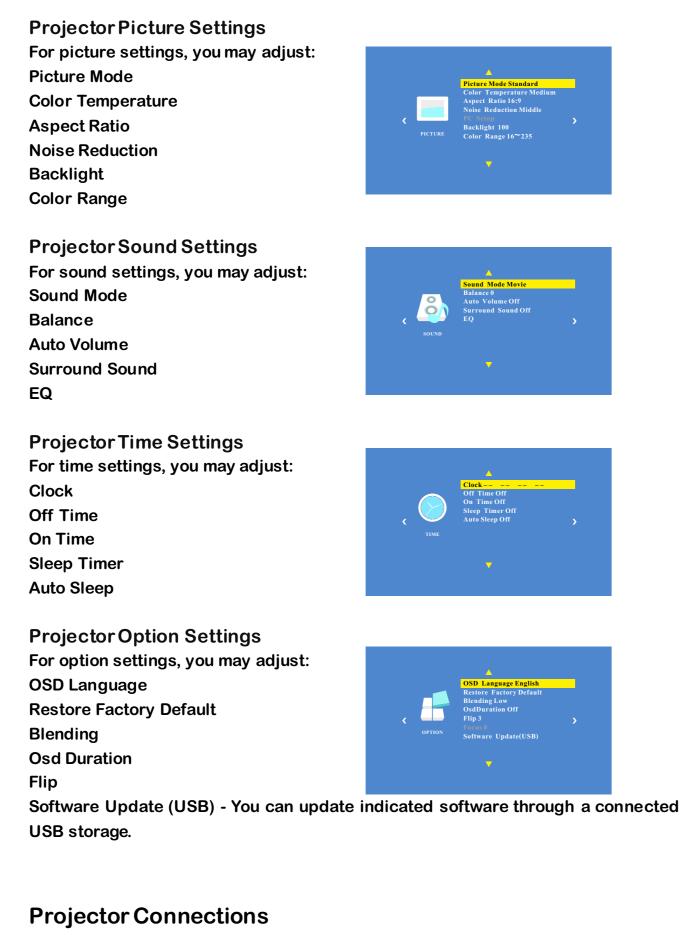# RAGU Z720

User's Guide

Thank you for purchasing RAGU Z720. Please read this user's guide carefully before operating the projector, and save this guide for future use.

If you have any further enquiries or need any further assistance, please contact us:
Official Email: service@ragu.net
Call: 1-262-299-0397 (available for customers in the United States currently)

Contents

Precautions for Use

Follow these safety instructions and read these helpful tips before setting up and using the projector.

Important Safety Instructions

- Do not disassemble the projector. If needed, please contact your dealer for repair/replacement.
- Do not use the different power source, it may result in fire or electric shock. Please use the indicated type of power source.
- Do not look into the lens when the projector is operating. The bright light may damage your eyes.
- Do not use the projector near water or sources of heat.
- Place the projector on an even surface or stable stand. If the projector is mounted on a ceiling, it should be installed by qualified mounting hardware which designed for use with this projector.
- Unplug the projector after powering down.
- Do not bump, shake or drop the projector, it may cause damages or can even lead to a projector crash.

Helpful Tips

- For incredible clarity and optimum results, we strongly recommend that you operate the projector in a dark environment.
- You may adjust the focus ring and keystone simultaneously until to get crystal clear images.
- Please understand that the projector makes noise for heat dissipation during working. Nevertheless, it will not affect watching experiences when connected to an audio device.
- RAGU Z720 projector is ideal for home entertainment, such as videos watching, photos viewing and games playing etc. Please be advised that the projector is not suggested for data presentation in business.
- Maximum supported resolution of RAGU Z720 projector is 1920×1080 pixels with its native resolution of 1280×768 pixels.
- If there is no sound when playing videos, you may check whether these videos are equipped with Dolby technologies. The projector cannot support Dolby for the present, but you can connect RAGU Z720 projector to a computer/laptop for videos watching instead.
- The projector supports screen mirror with smartphone/tablet. The accessory you need to prepare is a HDMI/Wi-Fi dongle. The stability of mirror screen completely depends on the HDMI/Wi-Fi dongle. The USB port is designed for USB storage

device connection. It cannot connect to smartphone/tablet or charge smartphone/tablet.
- The projector can connect to Mac/Mac Pro, the only accessory you need to prepare is a HDMI adapter.

Warranty

Your projector comes with a free replacement or a full refund within 1 year that lets your product with confidence. However, this warranty does not cover the following:

- Purchases from unauthorized resellers
- Improperly operated devices
- Purchases made over 1 year ago (unless you get extended warranty)
- Free products
- Lost or stolen products

Projector Features

RAGU Z720 projector includes these special and outstanding features:

Incredible watching experiences
- Ultra clarity and brightness of the image with sharp edges
- Native resolution of 1280×768 pixels
- Maximum supported resolution of 1920×1080 pixels

Flexible connectivity
- Supported multimedia playing through VGA, HDMI and AV ports respectively
- Supported USB storage devices through 2 USB ports
- Supported SD card through SD card slot

Easy-to-use setup and operation features
- User-friendly operating system
- Innovative keystone correction ring for flexible projector placement
- Longer lamp life up to 30,000 hours

Product Box Contents
Please save all the packaging in case you have further requirements (replacement or refund). Use the original packaging (or equivalent) when shipping. Ensure your projector box included all of these parts:

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1. RAGU Z720 projector
2. Remote control
3. Power cord
4. 3-in-1 AV cable
5. Adjustable foot (already installed)
6. HDMI cable
7. VGA cable
8. Cleaning cloth

Projector Part Locations

Front/Top
1. Lens
2. Focus/Zoom ring
3. Keystone ring
4. Front adjustable foot
5. Control panel

Left
1. SD card slot

Rear
1. 2 USB ports
2. HDMI port
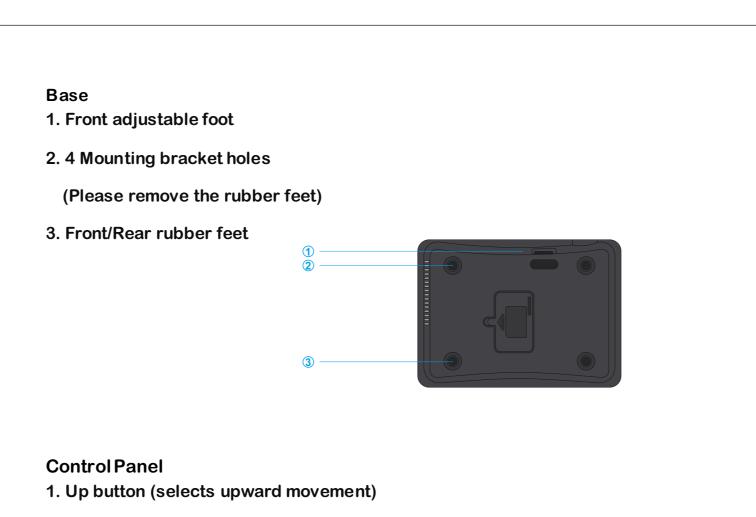3. VGA port
4. Audio jack
5. AV input port
6. AC input port

Base
1. Front adjustable foot
2. 4 Mounting bracket holes
  (Please remove the rubber feet)
3. Front/Rear rubber feet

Control Panel
1. Up button (selects upward movement)
2. Source button (selects of the input source)
3. Right/Volume up button (selects rightward movement and adjusts speaker volume)
4. Play/Pause button (plays/stops playing audio or video)
5. Down button (selects downward movement)
6. Menu button (accesses projector menu system)
7. Left/Volume down button (selects leftward movement and adjusts speaker volume)
8. Power button (turns the projector on or off)
9. Ok button (selects and confirms options)

Remote Control
1. Power button (turns the projector on or off)
2. Mute button (turns off sound)
3. Previous button (selects previous program)
4. Next button (selects next program)
5. Rewind button (fast backward)
6. Fast forward button (fast forward)
7. Flip button (flips the image)
8. 16:9/4:3 button (selects an aspect ratio of the image)
9. P.mode button (selects Picture mode)
10. Return button (cancels/exits functions)
11. Source button (selects of the input source)
12. Play/Pause button (plays/stops playing audio or video)
13. Up (selects upward movement on the function interface of the menu)
14. Left (selects leftward movement on the function interface of the menu)
15. Ok button (selects and confirms options)
16. Right (selects rightward movement on the function interface of the menu)
17. Down (selects downward movement on the function interface of the menu)
18. Menu button (accesses projector menu system)
19. Exit button (exits functions)
20. Numeric buttons (enter numbers)
21. Zoom button (zooms into and out of the image)
22. Playback button (plays back the video)

Setting Up the Projector

Before projecting, please be familiar with the following suggestions of placement, installation and adjustment.

Projector Placement and Installation
You can place or install your projector in the following ways:
Front/Rear/Front Ceiling/Rear Ceiling

Front/Rear: Place the projector on flat and sturdy surface in front of you or behind of you.
Front Ceiling/Rear Ceiling: Install projector in a qualified ceiling mount with a fixed location.

Whether the way you choose to project your images or videos, please keep these suggestions in mind:
1. Ensure the place you set the projector is sturdy and even;
2. Do not block the vents and always leave enough space for heat dissipation;
3. If the way you project is from the ceiling or from the rear, please ensure to select the correct projection option in the menu system.

Projection Distance and Screen Size
The throw distance, zoom factor, aspect ratio, and other settings determine the approximate size of the image. Please refer to the following table for the relationship between projection distance and image size.

16:9 Aspect Ratio

Projection Distance (Unit: m)	Screen or Image Size (Unit: in)
1	1.5	51
2	2.0	70
3	2.5	90
4	3.0	110
5	4.0	145

Note: The table and measurements provided are for reference only.

Projector Adjustment
Except setting suitable throw distance, you can adjust keystone ring and focus/zoom ring manually before projecting your images or videos:

1. Rotate the focus ring to adjust the clarity of the projected image until it reaches to crystal clear;
2. Adjust the keystone ring to correct keystone distortion.

Basic Projector Operations
Basic operations provided help you to get started quickly.

Power On/Off the Projector
Power On the Projector
Plug in the power cord, then press the Power button on the top of RAGU Z720 or on the remote control, the projector will turn on.

Power Off the Projector
Press the Power button on the top of RAGU Z720 or on the remote control, "Power to standby, Else to cancel" will be showed on the screen. Press the Power button again to turn off the projector.

Projector Menu Settings
Press the Menu button on the control panel or on the remote control to access to the menu interface. The menu interface allows you to set PICTURE, SOUND, TIME and OPTION. Choose the feature you want to set by pressing the Left/Right button on the remote control or on the control panel.

For detailed settings, press UP/Down to view options listed under PICTURE, SOUND, TIME and OPTION. Then press the Ok button to select options. (Some of these options have a submenu, press the Menu button to exit a submenu.)

Projector Picture Settings
For picture settings, you may adjust:
Picture Mode
Color Temperature
Aspect Ratio
Noise Reduction
Backlight
Color Range

Projector Sound Settings
For sound settings, you may adjust:
Sound Mode
Balance
Auto Volume
Surround Sound
EQ

Projector Time Settings
For time settings, you may adjust:
Clock
Off Time
On Time
Sleep Timer
Auto Sleep

Projector Option Settings
For option settings, you may adjust:
OSD Language
Restore Factory Default
Blending
Osd Duration
Flip
Software Update (USB) - You can update indicated software through a connected USB storage.
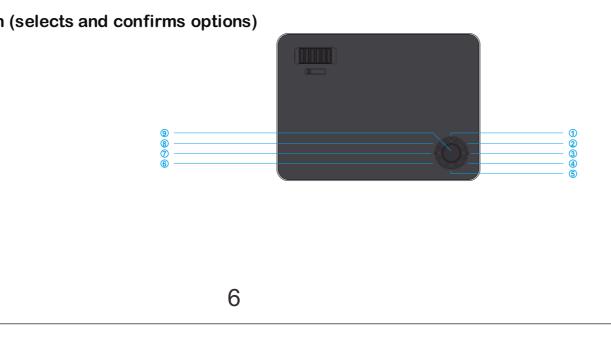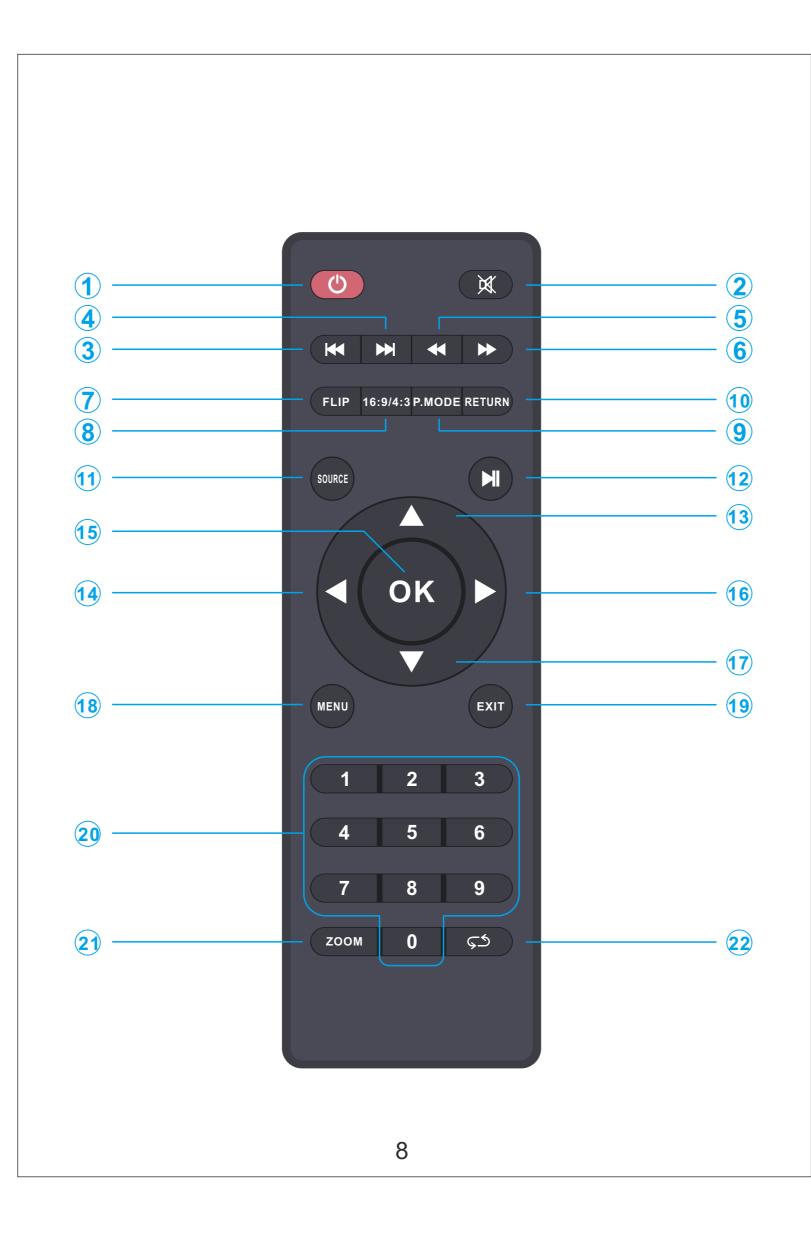
Projector Connections
You can connect the projector to USB storage devices, an audio source, a SD card, an AV equipment, a VGA device or a HDMI device to enjoy your presentations, images, or other videos, with premium sound.

Introduction to Ports
USB ports (connects to USB storage devices)
SD card slot (connects to a SD card up to 32GB)
AV input port (connects to an AV equipment)
HDMI port (connects to a HDMI device)
VGA port (connects to a VGA device)
Audio jack (connects to an audio device)

Connecting to a Storage Device
Insert a storage device into either of the USB ports.

When connecting to a storage device through either of the USB ports, press the Source button and select USB 1 or USB 2 as input source. A connection is successfully established now.

Choose the type of multimedia you want to display (Movie/Photo/Music/Text) on the multimedia interface. Press Left/Right to choose your storage device. Press Up/Down/Left/Right to select the file showed on the screen, then press the Ok button to open this selected file. Press the Play/Pause button to play or stop the content.

Connecting to a SD Card
When connecting to a SD card through SD card slot, press the Source button and select SD CARD as input source. A connection is successfully established now.

Choose the type of multimedia you want to display (Movie/Photo/Music/Text) on the multimedia interface. Press Left/Right to choose your storage device. Press Up/Down/Left/Right to select the file showed on the screen, then press the Ok button to open this selected file. Press the Play/Pause button to play or stop the content.

Connecting to an AV Equipment
When connecting to an AV equipment through AV input port, press the Source button and select AV as input source.

Connecting to a HDMI Device
When connecting to a HDMI device through HDMI port, press the Source button and select HDMI as input source.

Connecting to a VGA Device
When connecting to a VGA device through VGA port, press the Source button and select PC-RGB as input source.

Connecting to an Audio Device
Connect the projector to an audio device through audio jack.

Note: Ensure the format of movie/photo/music/text projected is supported by the projector.
For supported format details, please check the table below.

Channel Mode		File Types Supported
Multimedia	Video File	MPG/AVI/TS/MOV/MKV/DAT/MP4/VOB
	Audio File	MP3/WMA/AAC/AC3/M4A
	Picture File	JPG/JPEG/BMP/GIF/PNG
	Text File	TXT

Projector Cleaning and Maintenance
For optimum watching experiences and longer lifetime, please clean the projector periodically. For projector maintenance, please seek help from or under the guidance of specified persons. If it is necessary to replace any parts of the projector, please feel free to contact the dealer or qualified customer service team. Before cleaning and maintaining the projector, please turn off the projector and unplug the power cord.

Projector Cleaning
Always keep the projector clean to avoid affecting images quality and ventilation system during working caused by dust, dirt and smudge.

Cleaning the Projector Case
Use a piece of dry, soft and lint-free cloth to remove dust or dirt;
Use a piece of moistened and soft cloth with a little water and mild soap to remove stubborn dirt.

Cleaning the Lens
Gently wipe the lens with a piece of dry and non-abrasive cloth or paper to remove dust or dirt;
Gently wipe the lens by a piece of moistened (with a little water), non-abrasive and lint-free cloth to remove stubborn dirt.

Cleaning the Vents
Use a soft brush or a special designed small vacuum to remove the dust.

Note: For cleaning process, do Not spray any liquid (included water) directly on any parts of the projector. Do Not use the chemical liquid to clean the projector which will damage the projector.

Projector Maintenance
For this part, we only offer the basic maintaining suggestions. If you have any further requirements (replacement or repair), please contact the dealer or qualified customer service team.

Batteries Replacement of the Remote Control
If batteries have run out, please replace batteries by following steps:
1. Open battery cover of the remote control;
2. Insert batteries with the + and − ends as the indicators on the battery box showed;
3. Close battery cover of the remote control properly.

Technical Specifications
To know product better and use projector properly, please read the table below:

Imaging Technology	LCD
Native Resolution	1280 x 768 pixels
Maximum Supported Resolution	1920 x 1080 pixels
Light	LED
Contrast Ratio	1000:1
Aspect Ratio	4:3/16:9
Speaker	Built-in 1 x 5W
Keystone Correction	± 12 ° Vertical
Screen Size	20-280 inches
Projection Distance	1-7 m
Recommended Projection Distance	2.5-5 m
Color	1.67 Million

Interface	1 x AC Input
	1 x SD Card Slot
	2 x USB Ports
	1 x VGA Port
	1 x AV Input
	1 x HDMI Port
	1 x Audio Jack
Consumption	140-150W
Power Supply	AC110-240V 50-60Hz
Operating Temperature	+5 ℃~+35 ℃
Storage Conditions	Temperature (-10 ℃~+60 ℃); Humidity (10%~90%)
Operating Humidity	10%-70% (Non-condensing)
Supported Video Formats	MPG/AVI/TS/MOV/MKV/DAT/MP4/VOB
Supported Audio Formats	MP3/WMA/AAC/AC3/M4A
Supported Image Formats	JPG/JPEG/BMP/GIF/PNG
Supported File Format	TXT
Package Accessories	Instruction Manual, Remote Control, Power Cord, 3-in-1 AV Cable, Adjustable foot(already installed), HDMI Cable, VGA Cable, Cleaning Cloth
Package Size	38cm x 25cm x 14cm
Product Size	30cm x 22.5cm x 10.5cm
Net Weight	2.48kg

Troubleshooting

As a high-tech product, the projector combined with optical, mechanical and electronic components and equipped with a protective and complicated circuit inside. To quickly solve your problems and to prevent improper using and settings, please follow operations below. If your problems or enquiries cannot be eliminated after reading the table, please contact us without any hesitation.

Problem Description	Troubleshooting
The projector won't turn on	Check if the power source is the indicated one and the power cord is connected correctly. Make sure the power cord is not defective.
Lamp does not work after turning on the projector	Ensure power cord and power source are connected correctly. If the lamp gets damages or the service time of the lamp is more than 30,000 hours, please contact us to replace the lamp.
No images	Check whether the format and resolution of images are supported by the projector.
No response from remote control	Check whether batteries of the remote control run out or are installed correctly. Make sure there is no obstacle between the remote control and IR receiver. Always use the remote control within its effective distance (5m).
Obscure/blurred images	Please rotate the focus ring, adjust the keystone and the throw distance until the projected image is clear. Ensure the lens is clean.
Abnormal sound	Ensure the audio device is connected correctly and function well. Check if the mute or minimum volume mode is set.