

**LASER BEAM PRO**

# User Guide

2016/10 Rev 1.0

[www.cremotech.co.kr](http://www.cremotech.co.kr)

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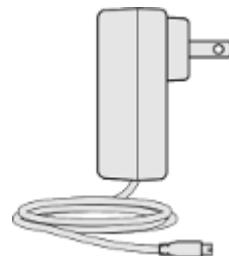
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# Getting Started

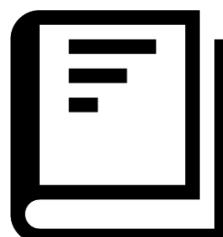
## Supplied Items



Beam Projector



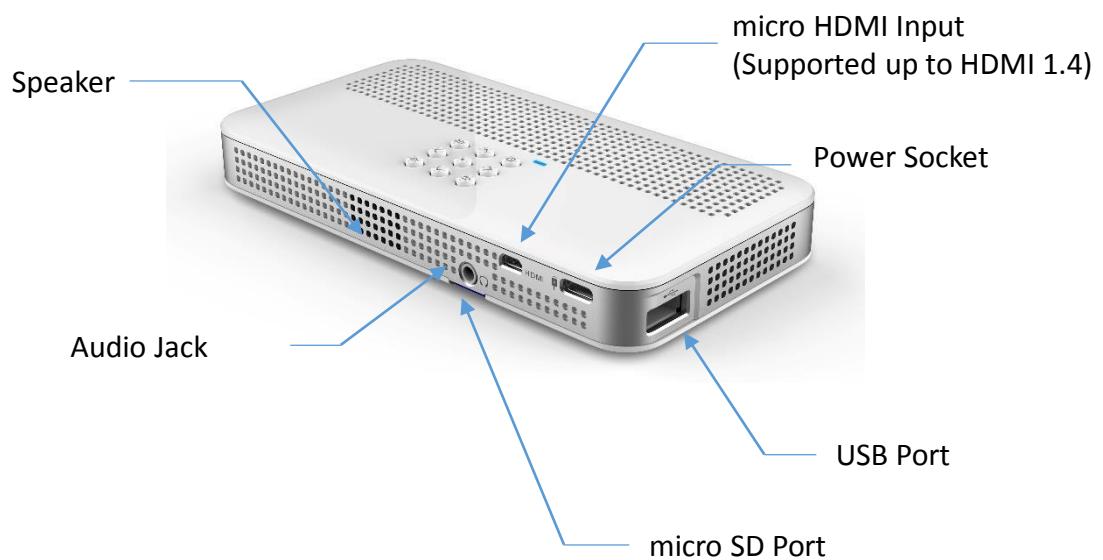
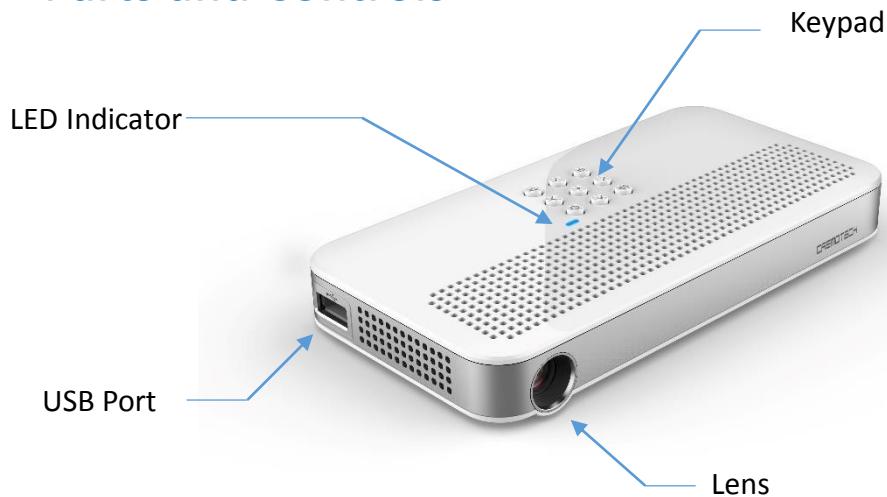
Power Adapter



Simple Manual

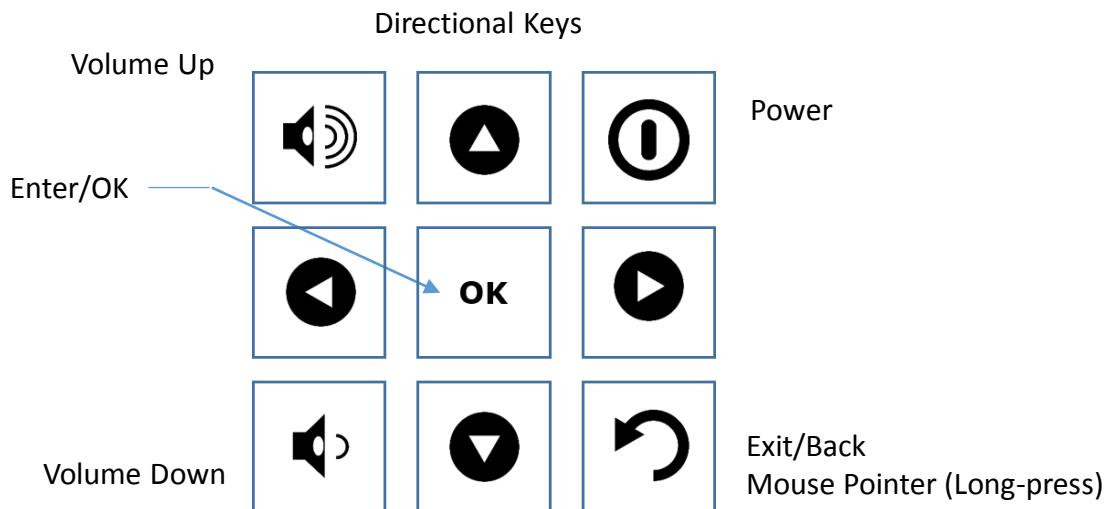
# Getting Started

## Parts and Controls



# Getting Started

## Keypad Functions



Power On	Press and hold the Power Key for four seconds until LED indicator displays yellow to turn the projector on.
Power Off	Press and hold the Power Key until 'Power Off' alert is seen on the screen.
Sleep Mode	Short-press the Power Key to switch to power-save mode. Short-press power the Power Key again to exit power-save mode.
Mouse	Long-press the Back Key to switch to mouse mode. Use directional keys to move mouse pointer. Long-press the Back Key again to exit mouse mode.
Exit/Back	Press the Back Key to return to the previous screen or exit.
Directional Keys	Use the four Directional Keys to move between menus. These keys are used to move mouse pointer in mouse mode.
Media Player	While video playback, The Left Key is used to rewind, the Right Key is used to fast forward, and the OK Key is used for Play/Pause.

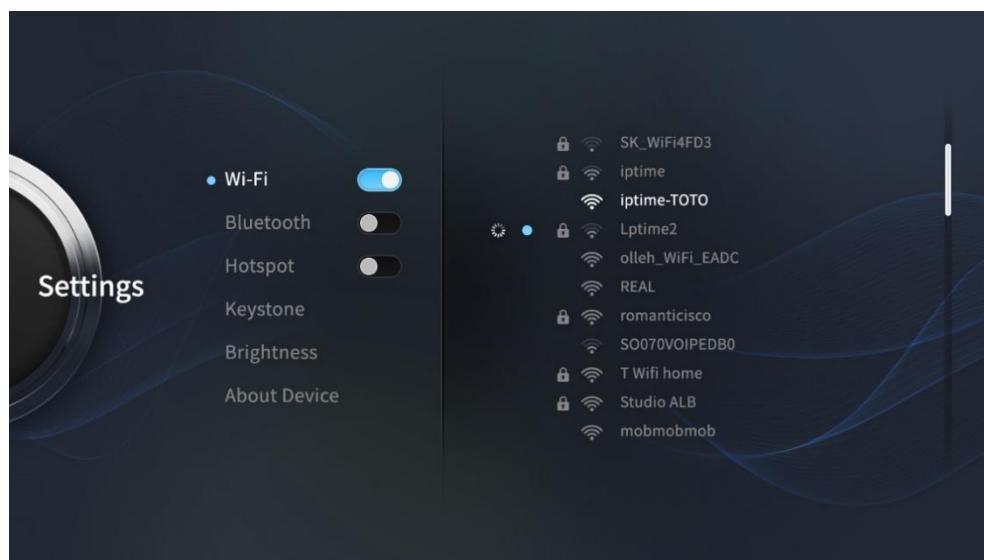
# Getting Started

## Connecting to the Internet

Please connect the projector to an AP (Access Point) to connect to the Internet.



Select Settings.



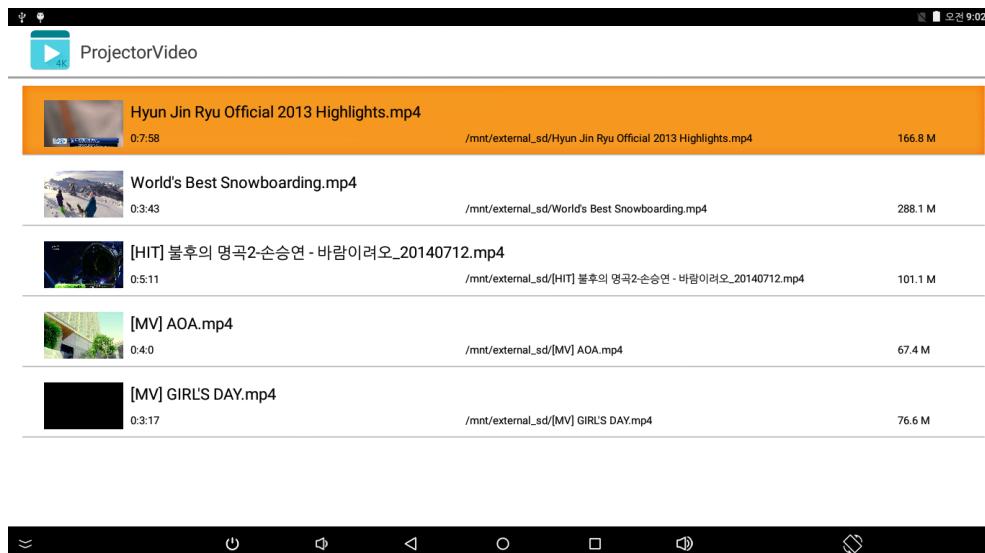
Select Wi-Fi to connect to an AP.

# Getting Started

## Media Player



Select Media Player.



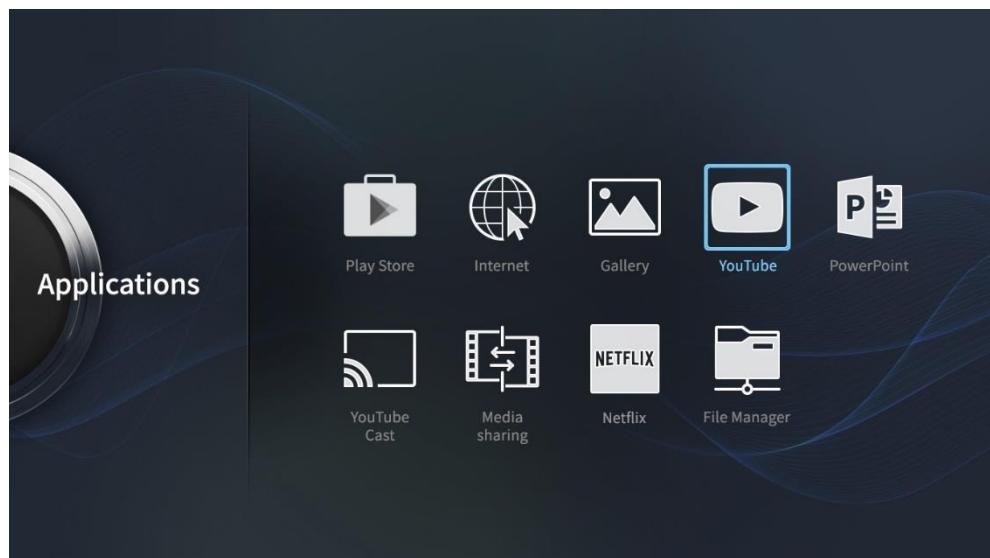
You can play video files stored in the internal storage (NAND Flash), USB Memory, or micro SD card).

# Getting Started

## Use Applications



You can download apps from Google Play™.

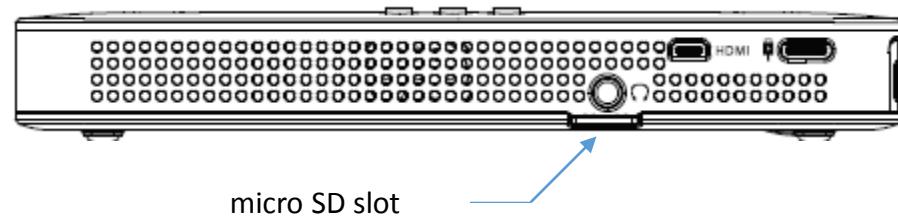
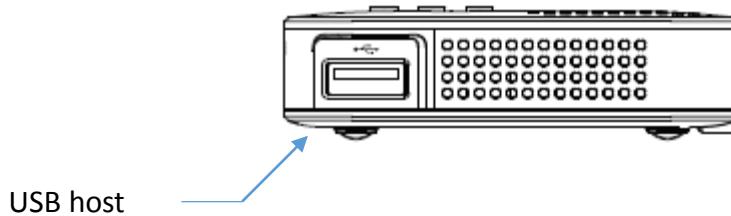


You can use pre-installed apps – YouTube, Netflix, etc. – as well as the apps you have downloaded.

# Getting Started

## Use USB, SD Card

You can connect USB memory, USB mouse to the USB host.  
micro SD card (up to 128GB) can be used through micro SD card slot.  
※ USB mouse, USB memory, micro SD card are not included.



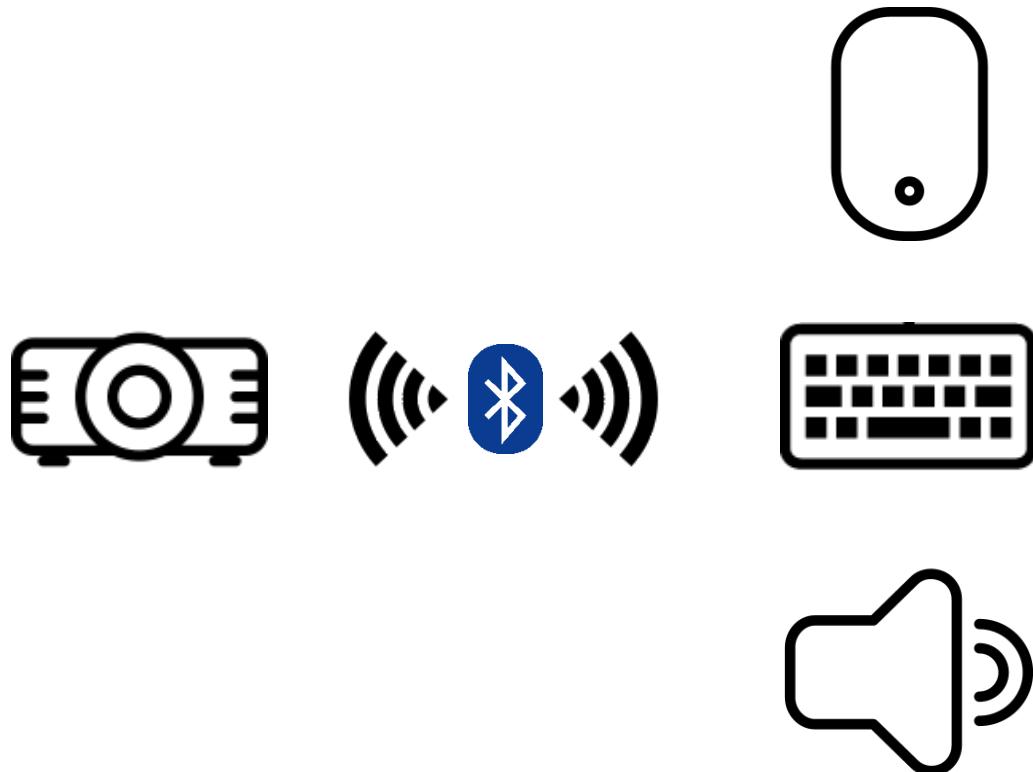
# Getting Started

## Use Bluetooth

You can connect Bluetooth devices such as mice, keypads, speakers to the projector.

On Settings > Bluetooth, you can select a Bluetooth device you want to connect.

※ Bluetooth mouse, keypad, speaker are not included.



# Connecting to another device

## Connecting to iOS device (1/2)

You can mirror your iOS device's screen to the projector.



Select iOS Mirroring.

# Connecting to another device

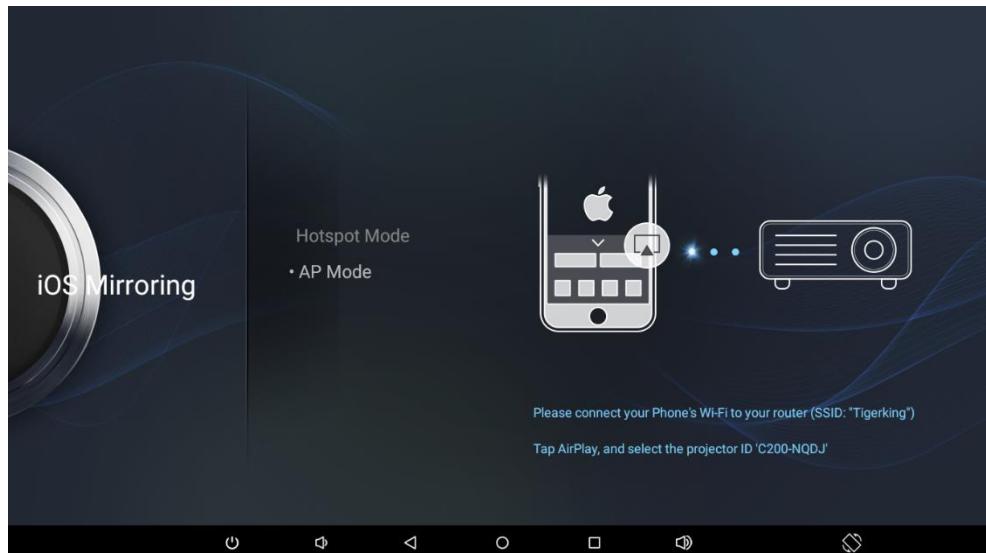
## Connecting to iOS device (2/2)

### AP Mode

The iOS device needs to be connected to the same Wi-Fi network.

### Hotspot Mode

you can directly connect your iOS device to the projector via Hotspot mode.



On your iOS device, run AirPlay and select the projector name to mirror your screen to the projector.

# Connecting to another device

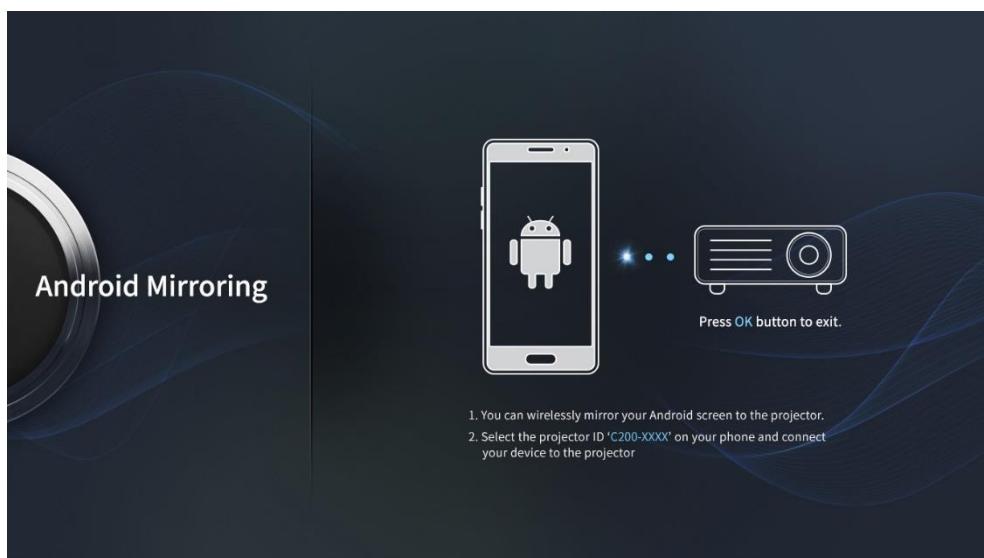
## Connecting to Android device

You can mirror your Android device's screen to the projector.

Your Android device needs to support Miracast.



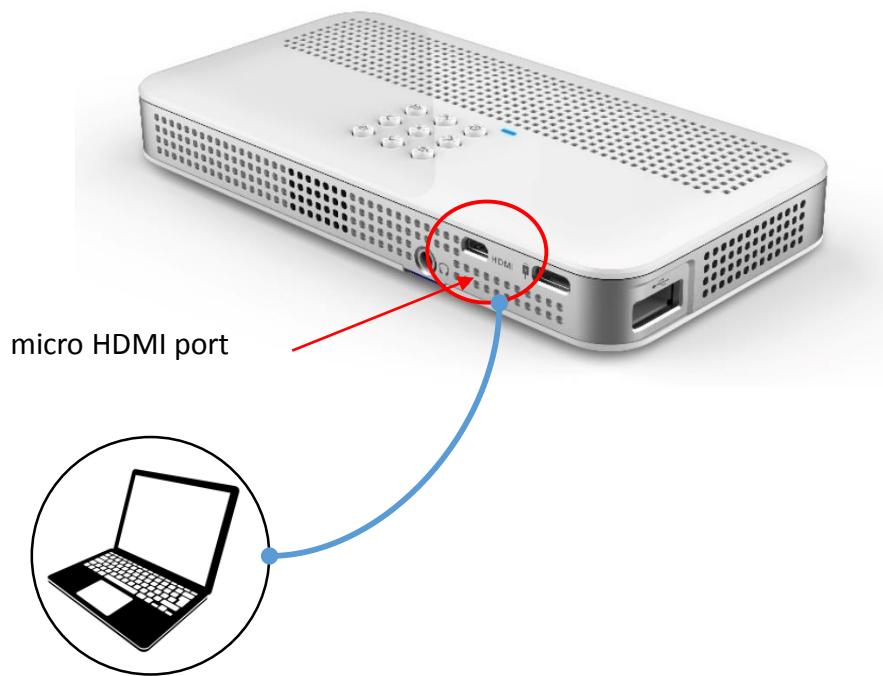
Select Android Mirroring.



Select Miracast menu on your Android device, and connect to the projector device name.

# Connecting to another device

## Connecting to a PC via HDMI



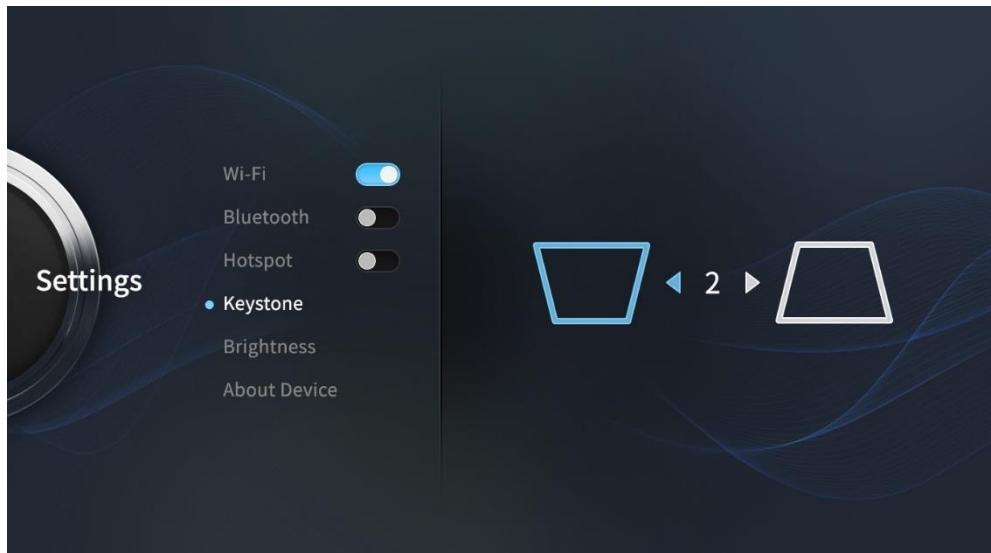
Connect micro HDMI port and your PC with a HDMI cable.

- \* Highly recommend to use a shielded HDMI cable.
- \* Up to HDMI Ver. 1.4 is supported. HDMI cable is not included.

# Settings

## Keystone Adjustment

You can adjust keystone in Settings > Keystone.

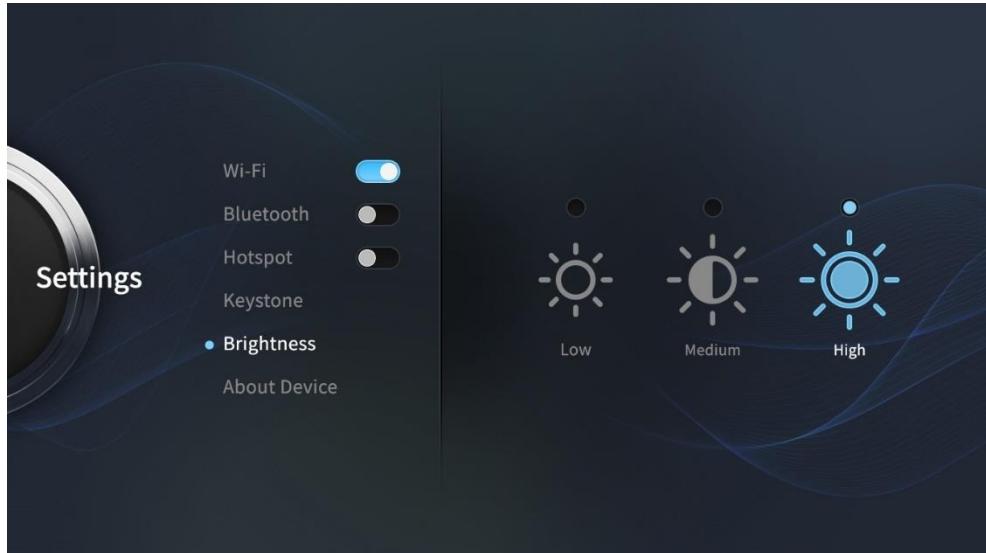


Select a display shape and press OK button to adjust the keystone.

# Settings

## Brightness

Select Brightness and chose one between Low, Medium, and High.

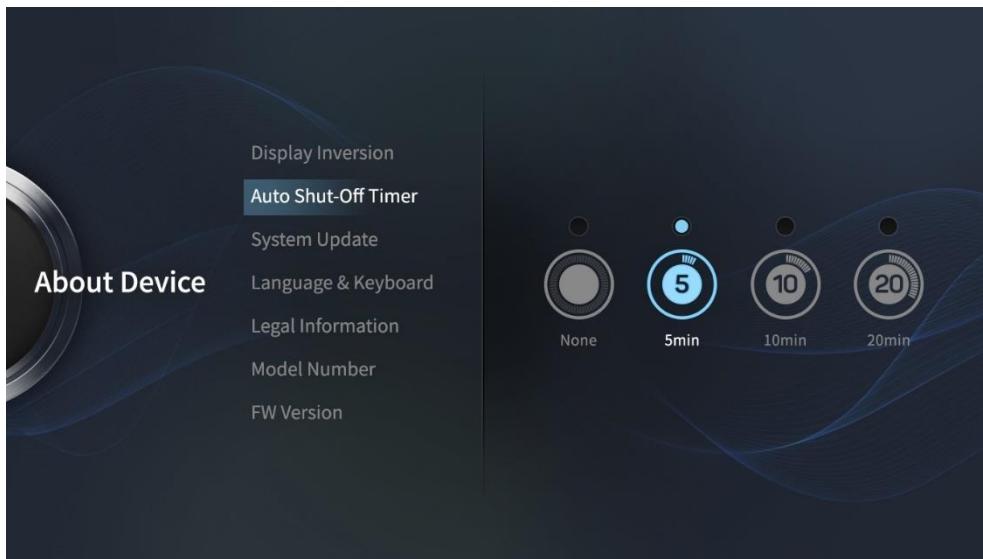


Use Left/Right key button to select your preferred brightness.

# Settings

## Auto Shut-Off Timer

You can set auto shut-off timer at Settings > About Device > Auto Shut-Off Timer.



Use Left/Right key button to choose between 5 min, 10 min, 20 min, and none.

# Settings

## Remote App

You can download Remote App from Google Play or Apple App Store.

Please use the Remote App to control the projector after connecting the app to the projector.



Please start the app and select the projector name after searching.

You can see the same screen of the projector on the app and select proper menu items and easily input text.

# Settings

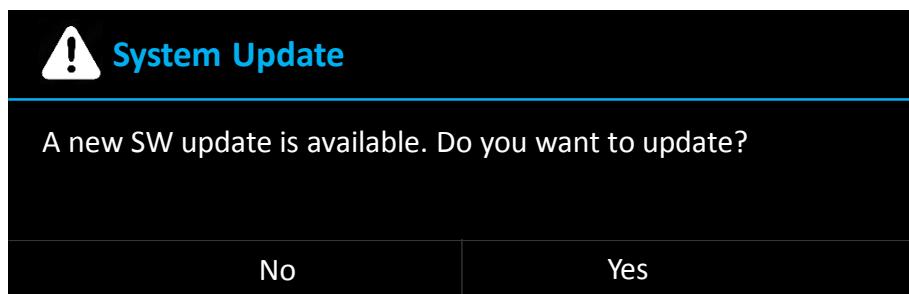
## Software Update

You can upgrade the projector to the up-to-date software to use it in more stable environment.

### OTA Update

Your projector must be connected to the Internet.

Go to Settings > About Device, and select Software Update.



### SW Update Using Your PC via USB

Please visit Cremotech home page (<http://www.cremotech.co.kr>) and download the up-to-date software and SW installation tool.

Install the SW installation tool on your PC and connect your PC with the projector using USB cable. Load the downloaded SW and install it.

You can find the information of the up-to-date software update and how to install it at <http://www.cremotech.co.kr>.

# Settings

## Reset

You can reset the projector when it doesn't work.



You can find the reset hole at the bottom-right on the back side of the projector. Please use a clip or pin to press the reset button inside to reset the projector.

# Technical Details

## Specifications

Specifications	
Dimensions	70.9 x 140.5 x 18.8 (mm)
Weight	210 g
Battery Capacity	6000 mAh
Processor	Quad Core
RAM	1GB
Internal Storage	8GB
Expandable Storage	micro SD (up to 128GB)
OS	Android Lollipop
Speaker	1W Mono Speaker
Wi-Fi	802.11 a/b/g/n (2.4/5.0 GHz)
Bluetooth	v 4.0
HDMI Input	micro HDMI
Audio Output	3.5 mm Audio Jack
Wireless Display	Miracast, AirPlay, DLNA
USB	USB 2.0 Host

## Projector Features

Resolution	HD 720p (1280 x 720)
Contrast Ratio	1000:1
Brightness	200 ANSI lumen
Focus Type	Auto Focus, Focus Free
Keystone	Manual Keystone
Screen Size	Up to 100"@3M
Throw Distance	800 mm (Best focus)
Throw Ratio	1.35
Light Source	Laser Diode
Laser Class	Eye Safety Class I
Operating Time	120 minutes

# Safety Warning and Caution

We sincerely appreciate your purchase of our product. Please read all the safety information prior to using this product.

## Warning

Violation of these instructions may result in fire, injury, or damage to the product or other property.

### **Do not use this product while driving a car.**

It may cause a dangerous situation like a traffic accident. This could be punishable by law.

### **Do not install, disassemble or modify.**

Arbitrary installation, disassembling or modification may cause device failure, explosion, fire, electrocution. Manufacturer is not liable for such damages.

\* Warning: You may be exposed to harmful radiation if you arbitrarily install, disassemble, or modify this product.

### **Do not submerge in water. Do not leave or use in excessively humid areas.**

This product is not water-proofed. Exposure to water or excessive humidity could lead to fire or electrocution.

### **The packaging material included is not suitable for recreational use.**

The plastic bags and metal parts included in the packaging material are not suitable for children or pets to use as toys.

### **Do not expose to excessive heat such as from a heater, microwave oven, or hair dryer.**

This could cause warping, explosion or malfunctioning.

**Avoid leaving or using this product in direct sunlight, excessively dusty area, possible water splashing area, excessively humid area, near heating appliance (Heater, microwave oven, etc.), or near flammable substance (Gasoline, painter thinner, flammable spray, etc.)**

It may cause fire or electrocution as well as malfunctioning due to damage to product.

### **Do not insert metallic objects such as a hair pin, easily flammable paper, or a matchstick.**

It may cause fire, electrocution, or malfunctioning due to damage to product.

### **Do not block the ventilation outlet while using the product with table cloth or curtain.**

It may cause fire or explosion due to internal temperature rise.

**This product is designed to work and to be stored in ambient temperatures between 10°C and 40°C.**

This product can be damaged and battery life shortened if stored or operated outside of this temperature range. Please be extra careful since temperature inside a car may reach up to 80°C which may cause an explosion. When you are using this product or charging the battery, it is normal for the product to get warm.

**Do not handle this product or plug with wet hands.**

It may cause electrocution.

**Do not look directly into the lens while the product is operating or do not aim it at anybody or pet.**

Strong ray may cause damage your eyes.

**Stop using this product in the event of smoke or unpleasant order. Turn off the power and unplug.**

It may cause fire or electrocution.

In the event of a foreign object inserted into the product, turn off the power, unplug and call the service center.

Foreign objects or water in the product may cause fire or electrocution.

**Do not block the ray from lens with a book or other objects.**

Long exposure of ray to an object may cause fire due to high heat. Reflected heat may also damage the product.

**Prevent an impact on the product or do not scratch with a sharp object.**

It may cause damage to the product and malfunction.

**Do not let children or pets lick the product.**

Exterior material may cause allergic reactions as well as causing damage to the product.

**Do not use this product while holding in hands or making body contact.**

Heat from the beam projector may cause burn injuries. It is recommended to use at least 20 cm away from the product.

**Recommended distance from the screen is 2 to 3 times of the diagonal length of the screen.**

Viewing in close approximation for prolonged time may damage your eyes.

**Do not use it for a prolonged period time.**

Prolonged viewing could lead to damage to the eyes. It is recommended to take adequate rest from viewing at one hour intervals. If you experience eye sight difficulty or problems during viewing, stop viewing immediately.

**Only use the charger and cables authorized and issued by the manufacturer.**

Other products may not function properly or cause damage to the product or battery.

**Make sure you check the voltage and type of the plug before use.**

These may vary in different countries.

**Do not twist or pull the cable forcefully, and do not change them too regularly or place heavy objects on them.**

Failure to follow this guidance may lead to damage to the cable, malfunction, or electrocution.

**Do not touch the lens directly with the hands, fingers or skin.**

A dirty or smudged lens leads to lower image quality.

**When cleaning the product, wipe slowly with a soft, dry cloth.**

Ensure the charger is disconnected from the product and that the power is off. Do not use solvents, alcohol or thinner to wipe the product.

**Caution: Potentially hazardous radiation emitted from this device.**

Do not stare directly into the lens.

**Read the following instructions carefully in order to handle the battery safely.**

The battery takes approximately 4 hours to charge and has a standard operating time of approximately 2 hours.

\*Charging time is measured with an authentic charge and cable.

\*Battery usage and operating time is based on the battery in its initial state.

When the battery has no charge, the lamp does not light up even if the charger is connected. Charge for at least a few minutes before using.

Battery life diminishes gradually with repeated use. Once the battery life has diminished to half that of its original state, replace it with a new battery through the service center.

### **Installing the Product**

Install the product on a flat, stable surface.

When using the product while connected to a charger, ensure use at an appropriate distance from the power outlet in order to avoid breaking the connection. Infliction of shock or impact to the charger or cable could lead to the product falling or damage to the terminal.

Please refrain from using in the following places:

Hospitals or near medical equipment that is affected by high wave frequencies

Near cardiac defibrillators or hearing aids

Near many electronic and/or wireless devices (kitchens, cars, aircraft cabins etc.)

## FCC Information

This device complies with part 15 of the FCC Results. Operation is subject to the following two conditions :

- (1) This Device may not cause harmful interface, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for CLASS B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. 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 correct the interference by one or more of the following measures:

- 1.1. Reorient or relocate the receiving antenna.
- 1.2. Increase the separation between the equipment and receiver.
- 1.3. Connect the equipment into an outlet on a circuit different from that to which receiver is connected.
- 1.4. Consult the dealer or experienced radio/TV technician for help.

## WARNING

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

### IMPORTANT NOTE:

#### FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.