User Manual
Model: TT

FCC ID:2ALH2-PFAT100

IC:22519-PFAT100

SW:TTCN20170224V001

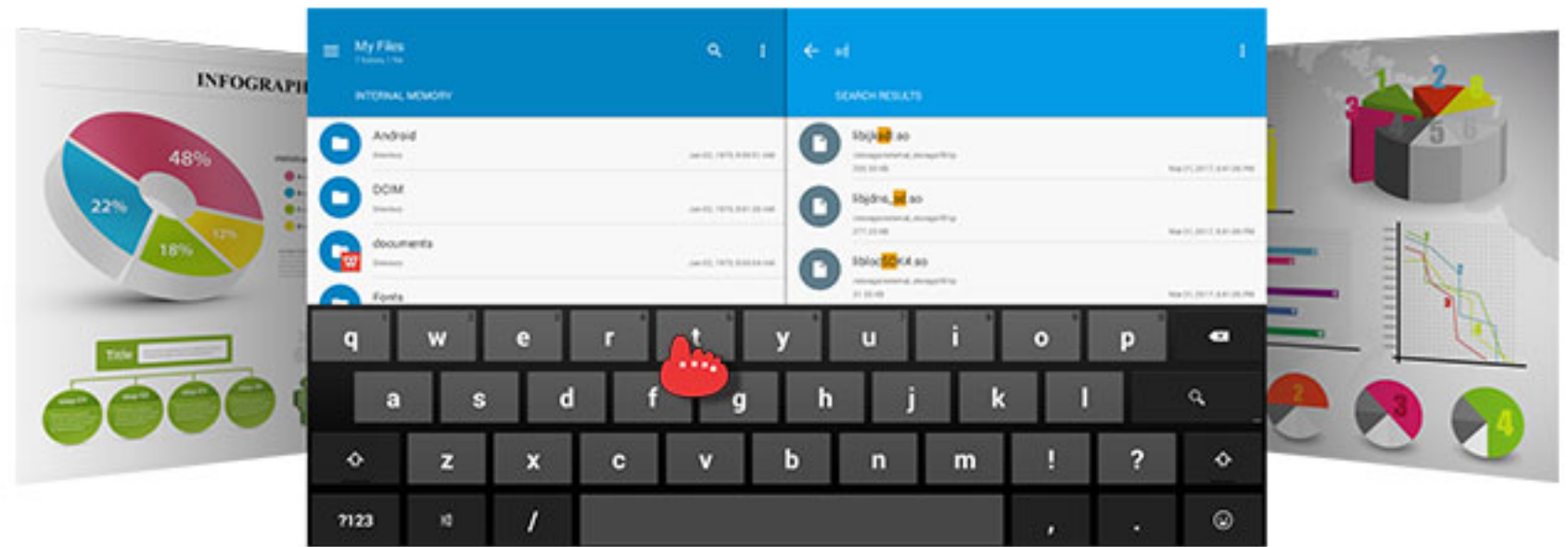HW:M3_T826_ARM_V3

The "OK" or "Select" Key
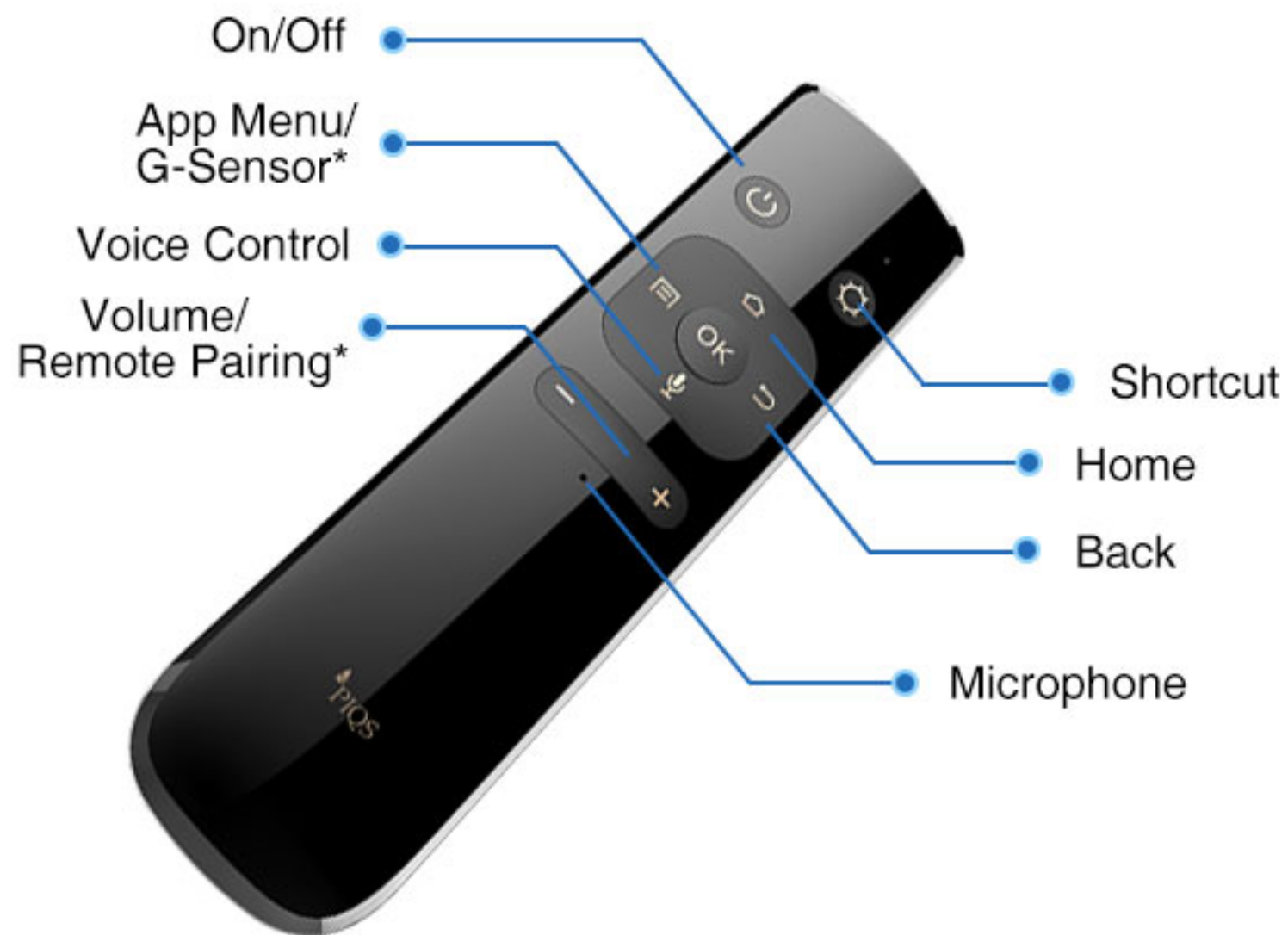
"OK" Key:

Hold the remote and point to the screen, a cursor will be appeared and it moves as you move your remote. Press "OK" to select certain App and function or drag the screen page on certain background or Apps.

"OK"Key

ⓑ Remote Controller

On/Off

App Menu/
G-Sensor*

Voice Control

Volume/
Remote Pairing*

Shortcut

Home

Back

Microphone

⏻ On/Off: When the unit is on, press once to select "Sleep" mode, "Reboot" or "Power Off".
You can also turn on the unit by pressing this key when the unit is connected to the power supply.

☼ Shortcut: Press to select different shortcut features.

▤ App Menu: Submenu for certain App. (Please refer to another page for G-Sensor).

⌂ Home: Return to the main screen.

↺ Back: Return to the previous section or exit.

+ Volume: Control the volume up/down. (Please refer to another page for Remote Pairing).

c G-Sensor and Status Light

G-Sensor
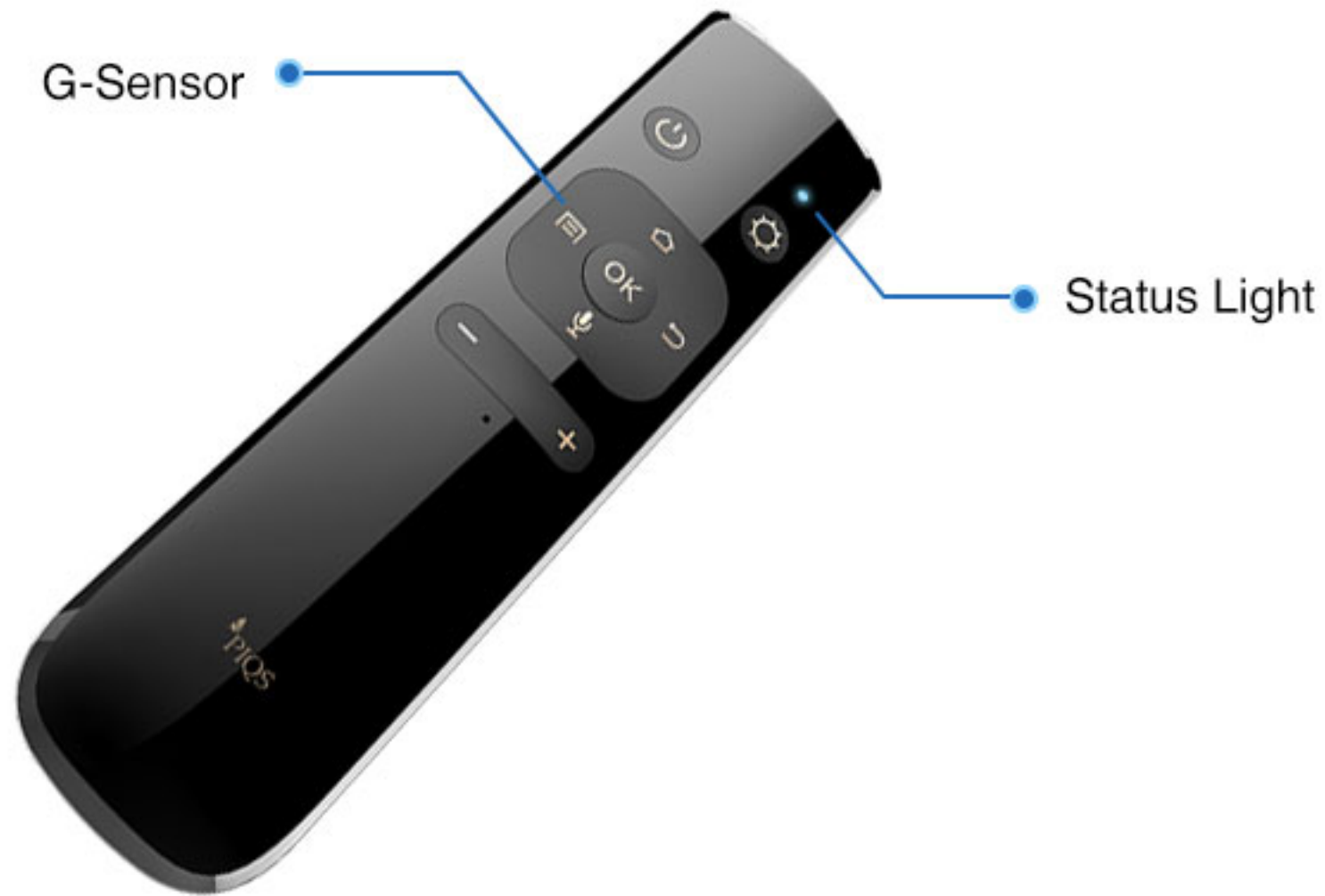
Status Light

G-Sensor: Press and hold until "G-Sensor On" shown on screen or turn G-Sensor off by pressing and holding it.

This is useful when some App or game require directional control by tilting the remote control to right or left.

Status Light: 1) Blue blinks when it is operating.

2) Red blinks when the battery is low.

3) Red lights when it is under charging.

4) Blue lights when it is fully charged.

5) During pairing with the unit, blue blinks continually and becomes steady for 2s if it is paired. Pairing notice will be shown on screen.

d Picture Zoom In and Out

Picture Zoom

1) Press "Shortcut" ⚙ and select Picture Zoom, an icon shown on screen.

2) Press & hold "OK" on the remote, then move it left/right to zoom in/out.

e Sleep, Reboot or Off

On/Off

- Press "On/Off" and you can select "Sleep" mode, "Reboot" or "Power Off".

- Power Off – Press "On/Off' or power button on the unit.

- Sleep – Under "Sleep" mode, you can restart the unit by pressing "On/Off" on remote.

Search

WiFi

Go to sleep

Reboot

Power off

Auto Focus

Display

User Manual

Clean

Advanced Settings

Shortcut – A quick way to access useful features.

- Auto Focus – Press to start Auto Focus.

- 3D – During video play, you can switch to 3D L/R or 3D T/B depending on your source of video. (3D-glasses is not provided).

- Color Temp, Brightness, Contrast – You can adjust here simply.

- Sound Effects – You can select different sound effect when playing music or videos.

- Picture Zoom (Please refer to previous page).

- PIQS Draw – A versatile built-in feature to draw/highlight anything on the screen during presentation or picture viewing. (For details, refer to Manual under "Business" App on home screen).

- Virtual Keys – On-screen virtual keys for navigation on some occasion.

Shortcut
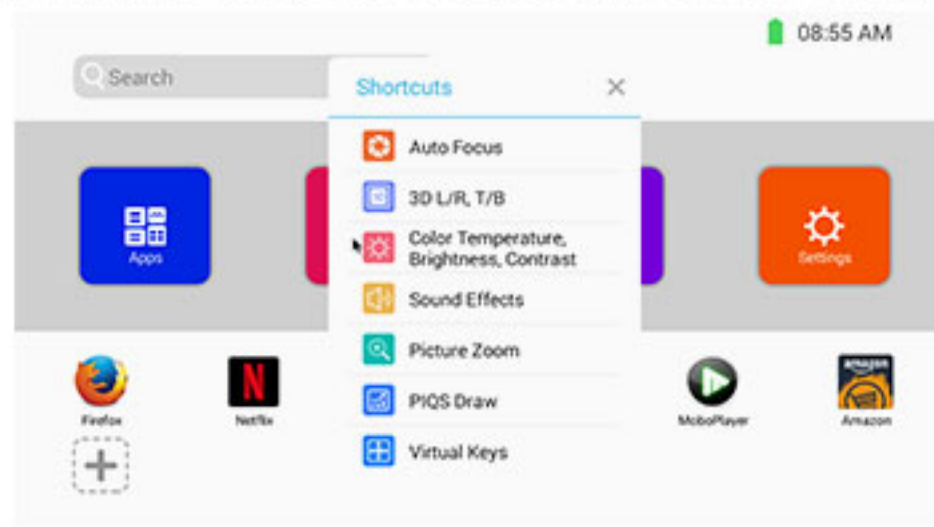
g Charging your Remote Controller

ii) By supplied USB Charging cable. (Cable color maybe different)

i) By external power adaptor (not provided). Output: DC 5.0V, 1A

h Pairing your remote controller with the projector
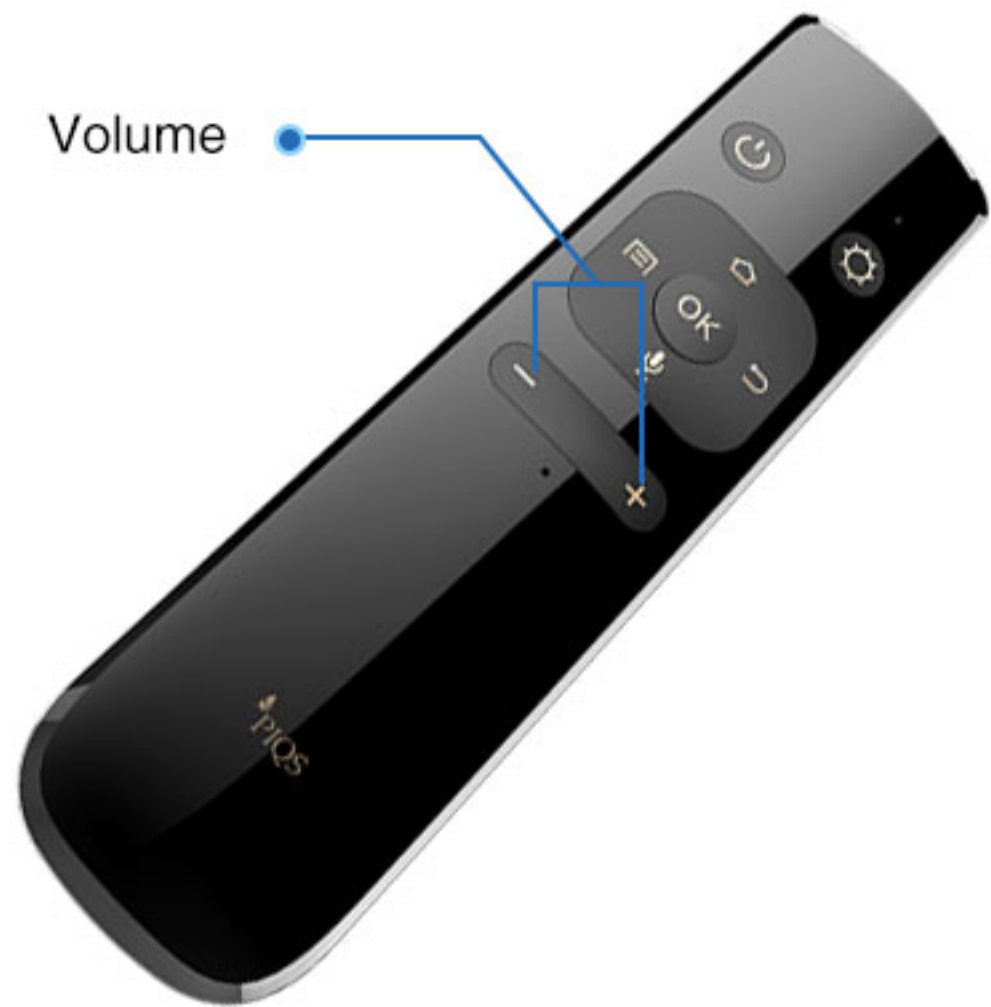
Volume

Supplied remote has been paired with the projector, if you want to pair a new remote or reset the old one, please follow this instruction.

Hold your remote controller close to the projector, press and hold the volume key (+) and (-) at the same time for 3 seconds. Then, pairing starts and status light on remote blinks until pairing is shown on screen.

*If you cannot pair it, make sure your surroundings do not have many Bluetooth/WiFi devices working which may interfere the pairing process.

Status Light

DC In

The unit has built-in battery which you can press and hold the "Power" button until it is on. (Suggest you fully charge the unit before using).

Or you can charge the battery and use the projector by plugging in the socket with our supplied adapter.
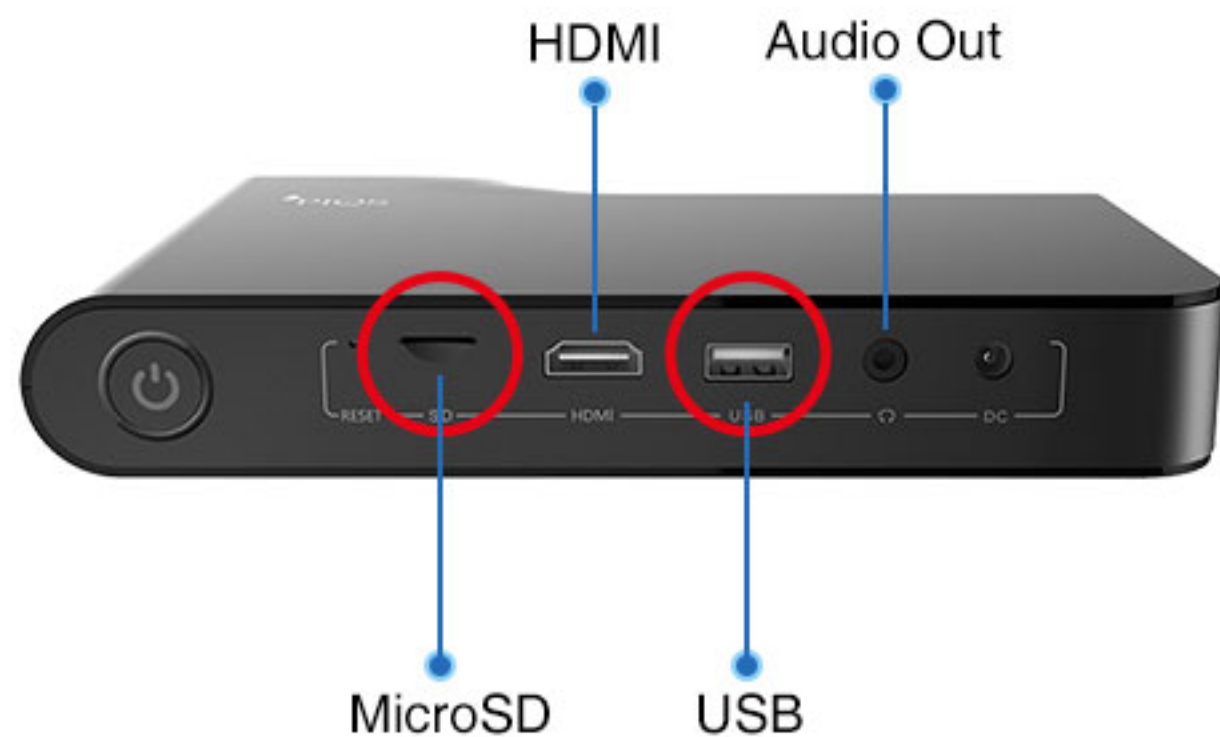
Status Light:
- Charging – Red light is on
- Fully Charged – Blue light is on
- Normal Operation – Blue light is on (Low battery will be shown on screen).

ⓑ I/O Slots

HDMI   Audio Out

MicroSD   USB

The unit has external slots for USB and MicroSD which you can playback photos, videos or documents directly. Open those files depending on the Apps installed.

Once USB or MicroSD card is inserted, the unit can detect automatically with notice shown on screen.

For HDMI, you can connect to other devices such as notebook computer, playstation or Xbox, etc.

Audio out (3.5mm) is suitable for stereo earphones or external speakers.

Reminders:

- The reading speed of USB/MicroSD/HDMI depends on the transfer rate of your media.
- When the USB/MicroSD is working, do not power off the unit or remove the media from slot.
- If it is failed to read the files, please restart the unit again.

C WiFi Connection
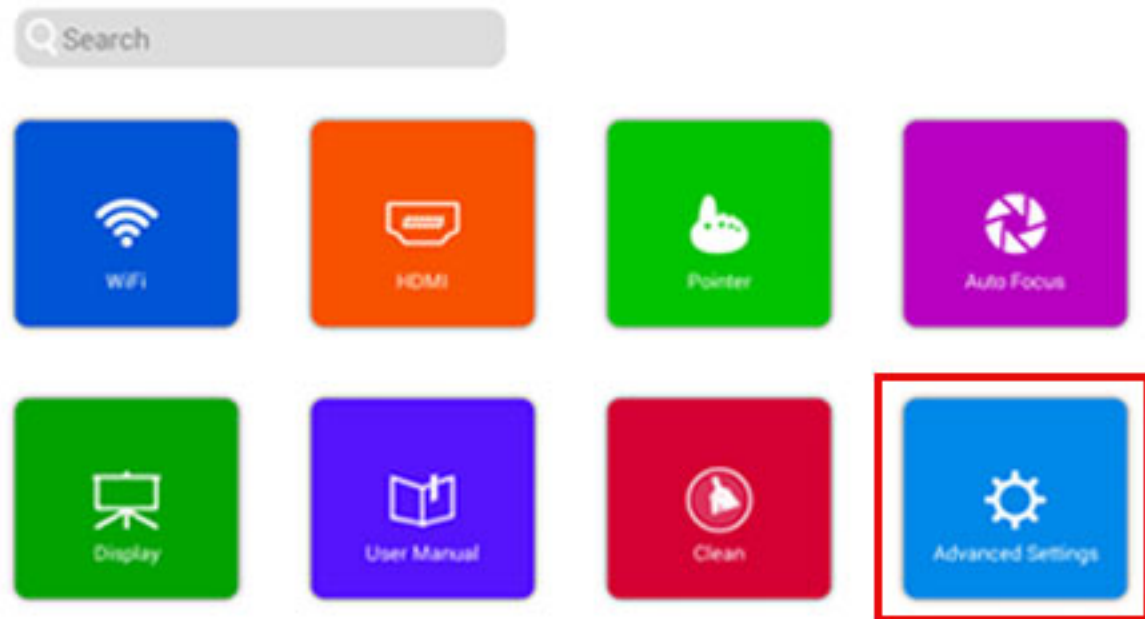
- Select Settings on Home
- Select WiFi
- Choose your Wi-Fi network to connect

OR

- Select Settings on Home
- Select Advanced Settings and toggle the WiFi button to on, then select your network
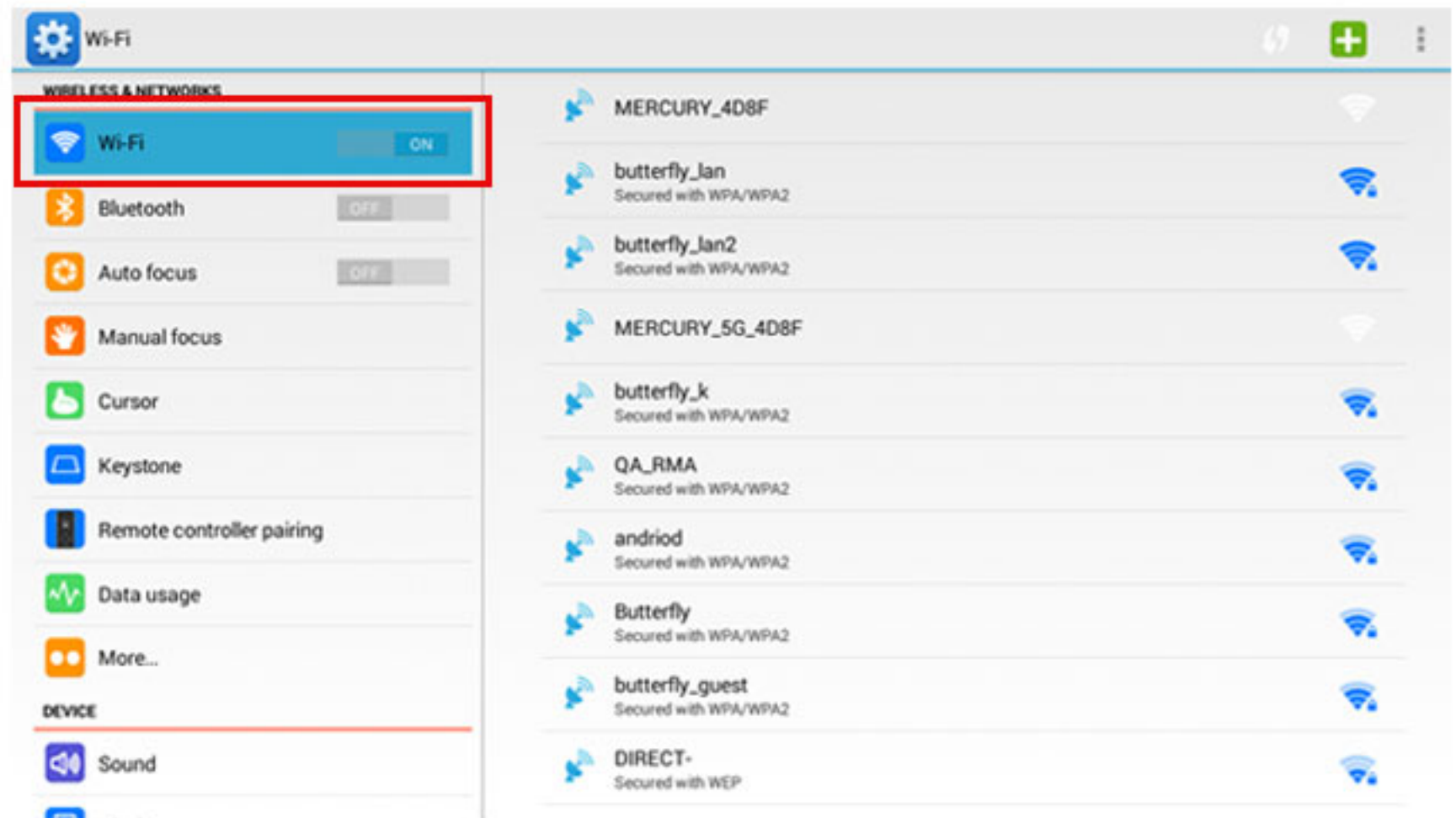
d Bluetooth Connection
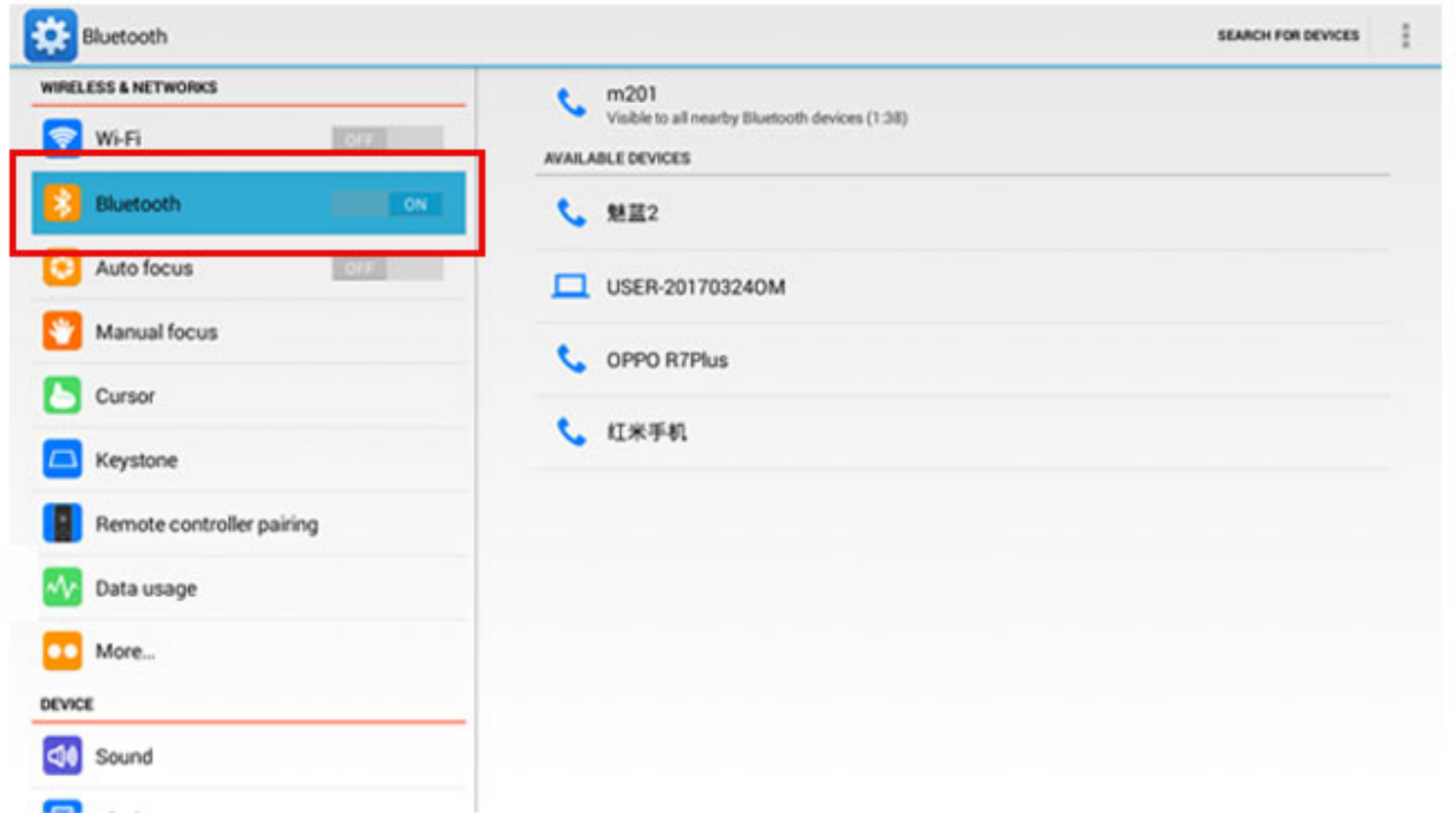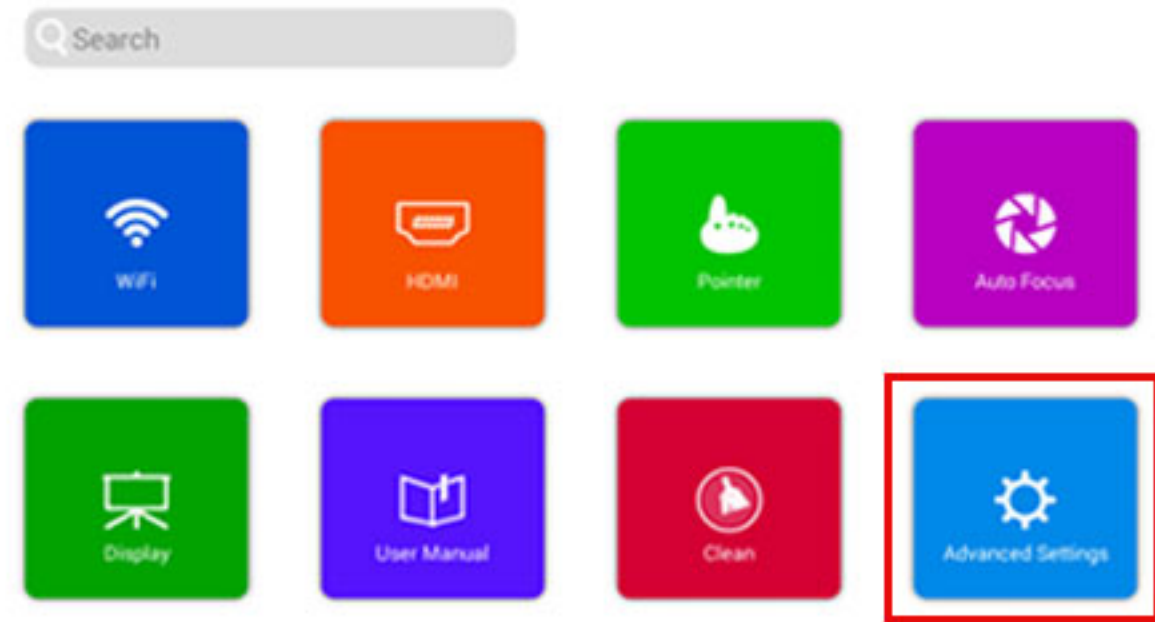
- Select Settings on Home
- Select Advanced Settings and toggle the Bluetooth button to on, then select your devices to connect. (Make sure your other devices are Bluetooth discoverable).

a Apps Download & Installation
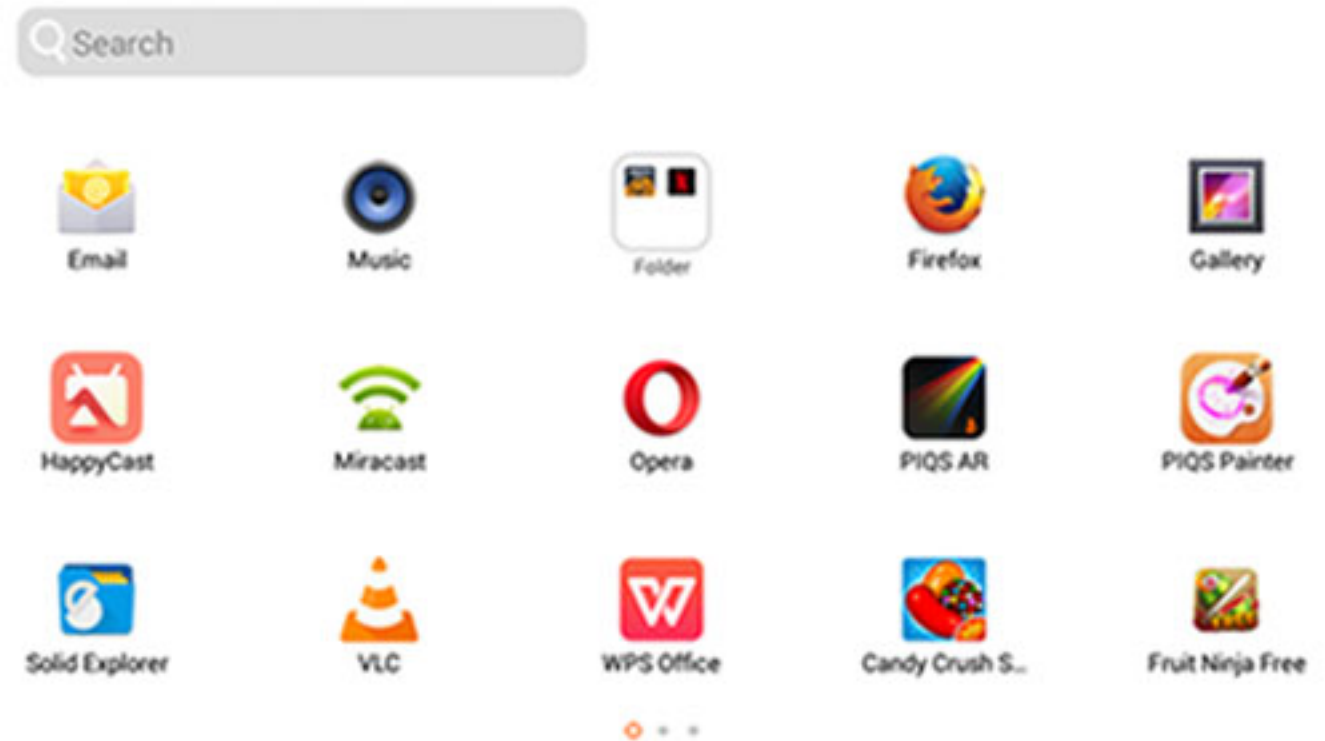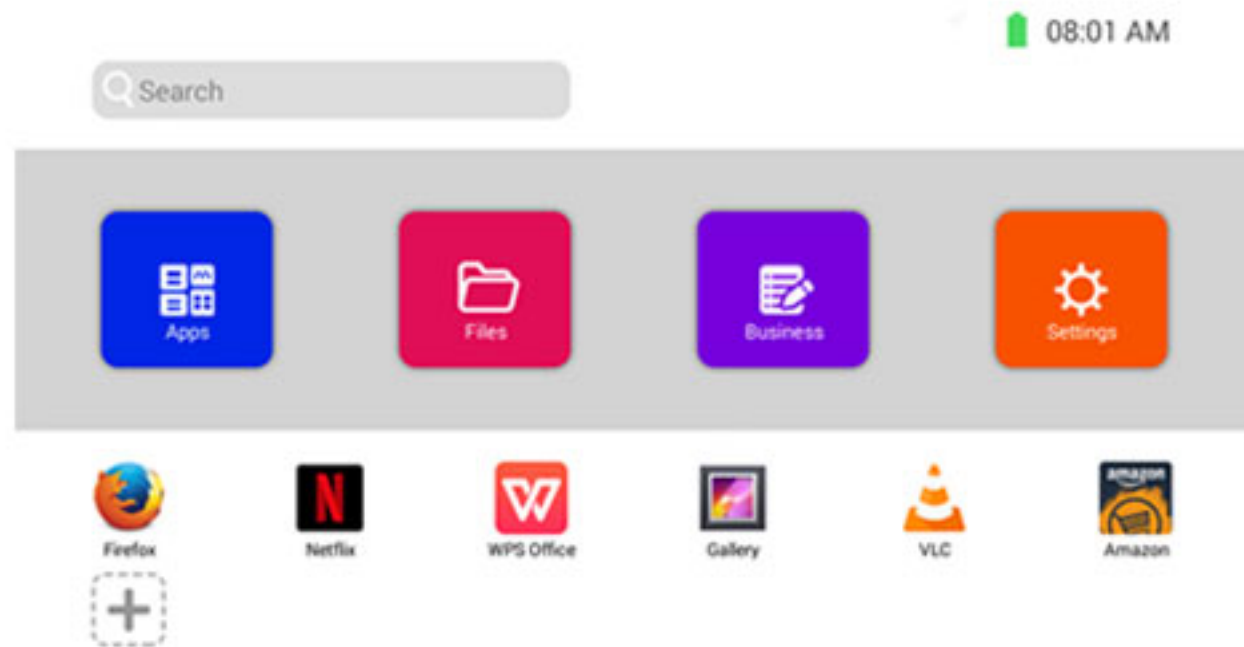
You can download your desired Apps by 2 ways:

i) Go to Internet by opening installed Apps such as Firebox or Opera, then search for public website for Apps download.
OR

ii) We have provided Apps store such as Amazon or APKPure, open those Apps in Home Screen > Apps, then find out your desired Apps to install.

*Currently this unit does not support Google Play Store. Although this unit supports most of the Apps, we cannot guarantee all Apps downloaded are installable or usable. We suggest consumers try different version of Apps or download from different website if they face this issue.

ⓑ Apps Uninstallation
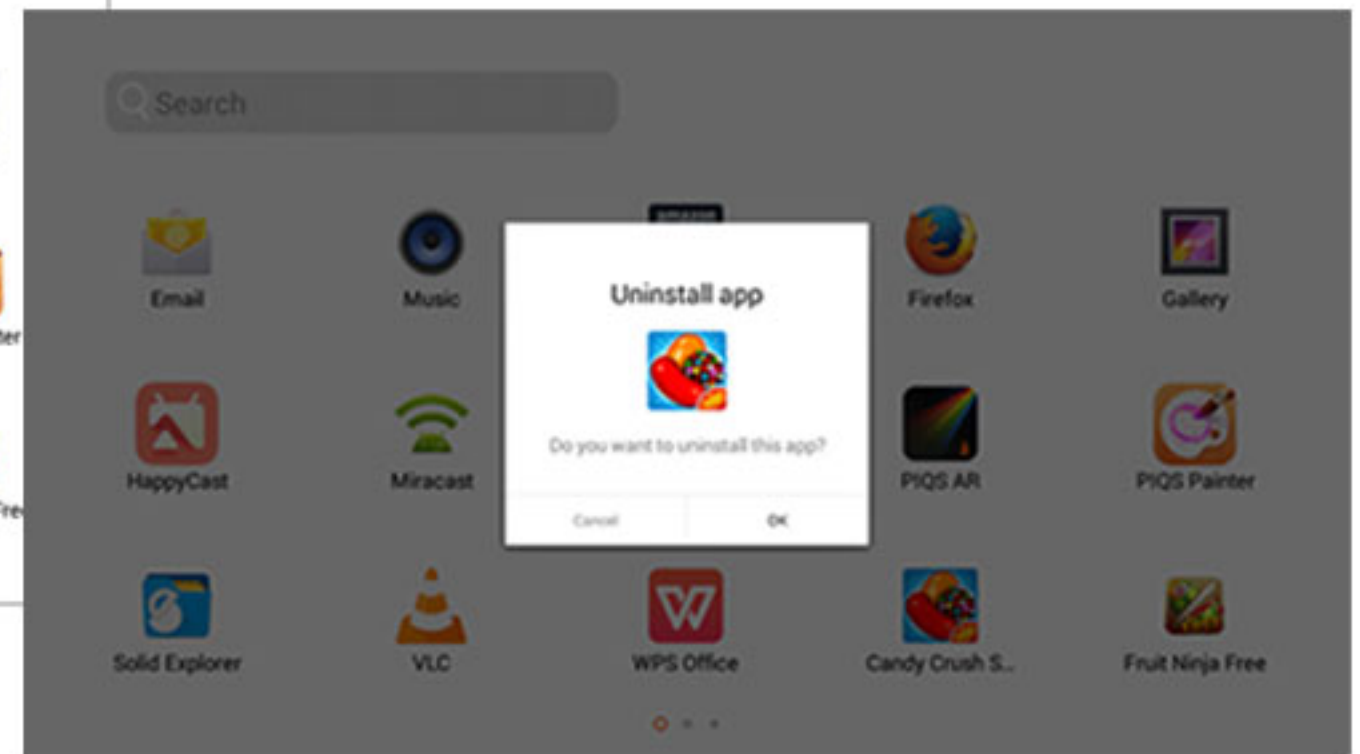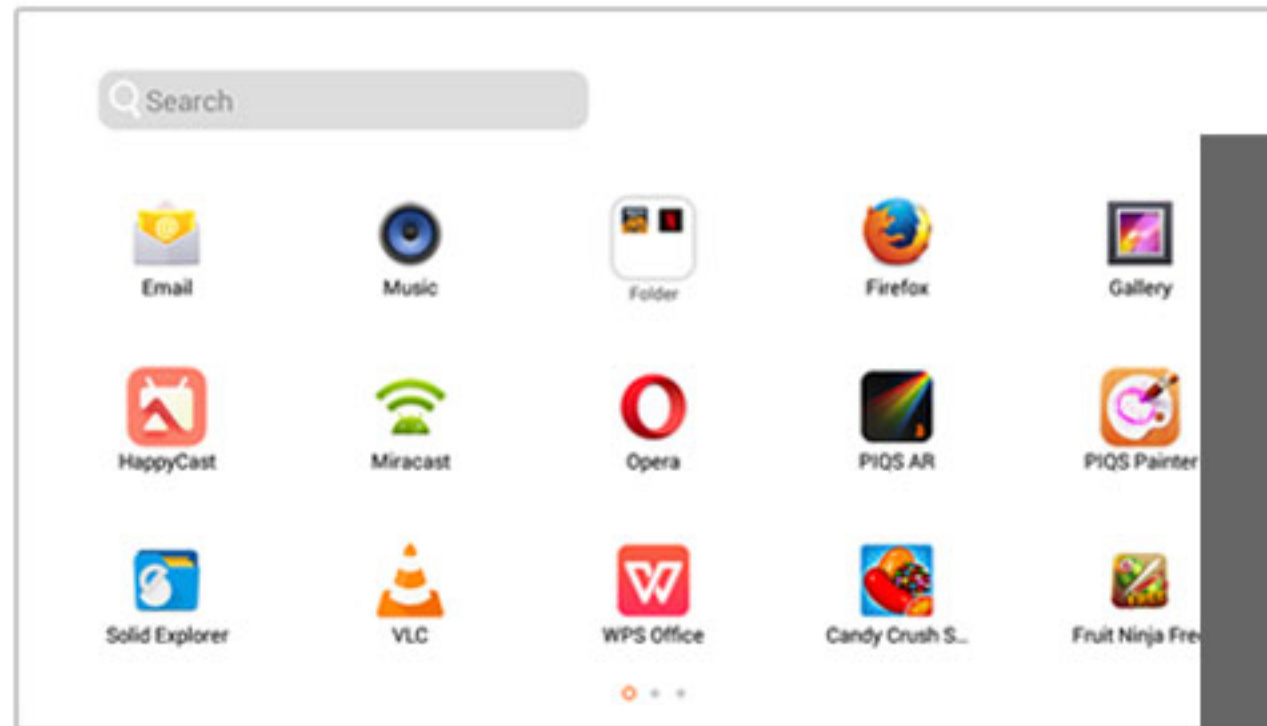
Uninstall Apps:

- On Home screen, select "Apps".
- Select the App you want to uninstall,
- Long press "OK" and drag it to the rubbish bin on the top of screen.
- Follow the instruction to uninstall the App.

*Certain Apps cannot be uninstalled because they were built into the system memory.

C Grouping Apps

Go to Home Screen >Apps

- Group two or more Apps into a single folder by long pressing "OK" on selected App.
- Drag the App to another App that you want to group together.
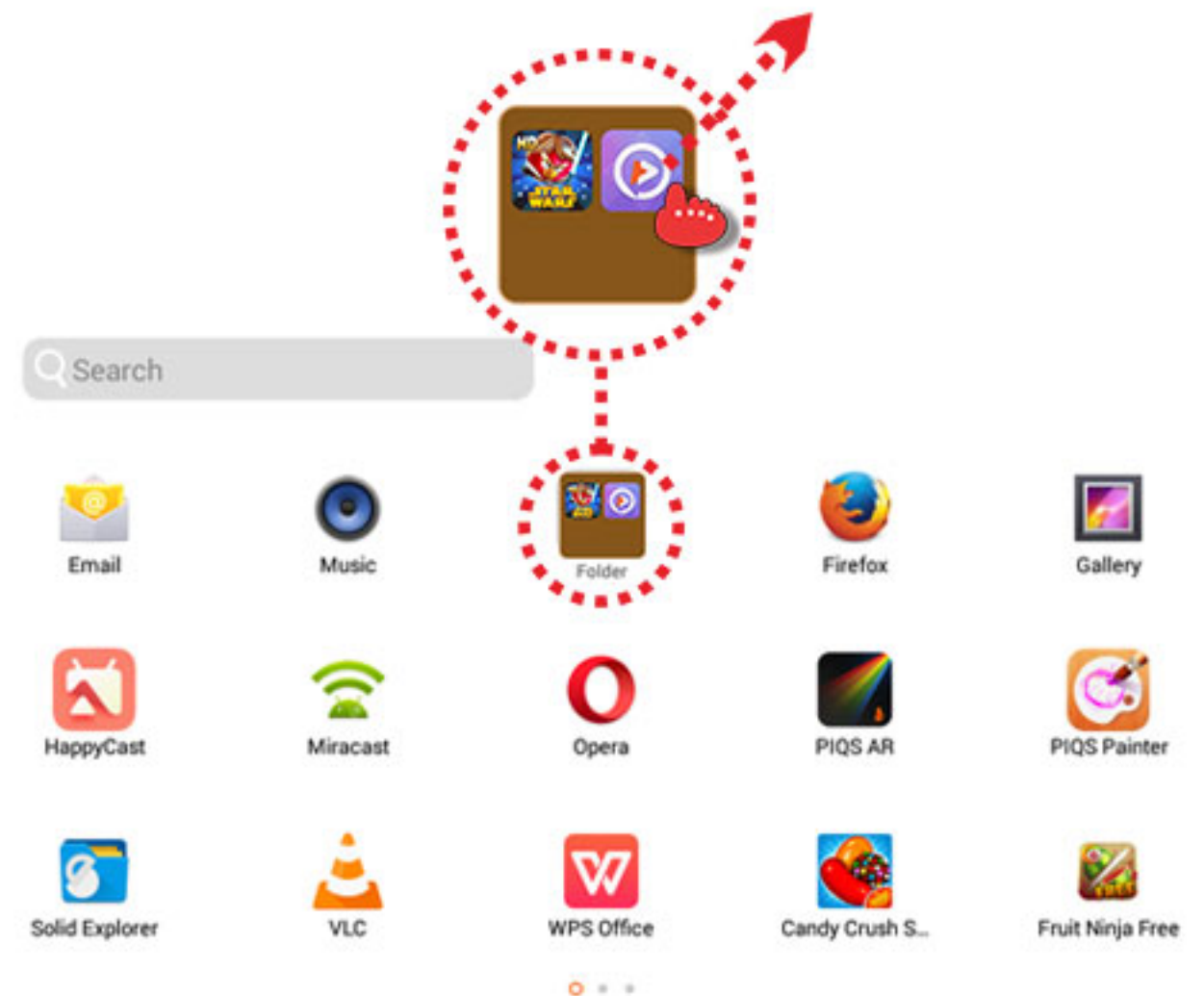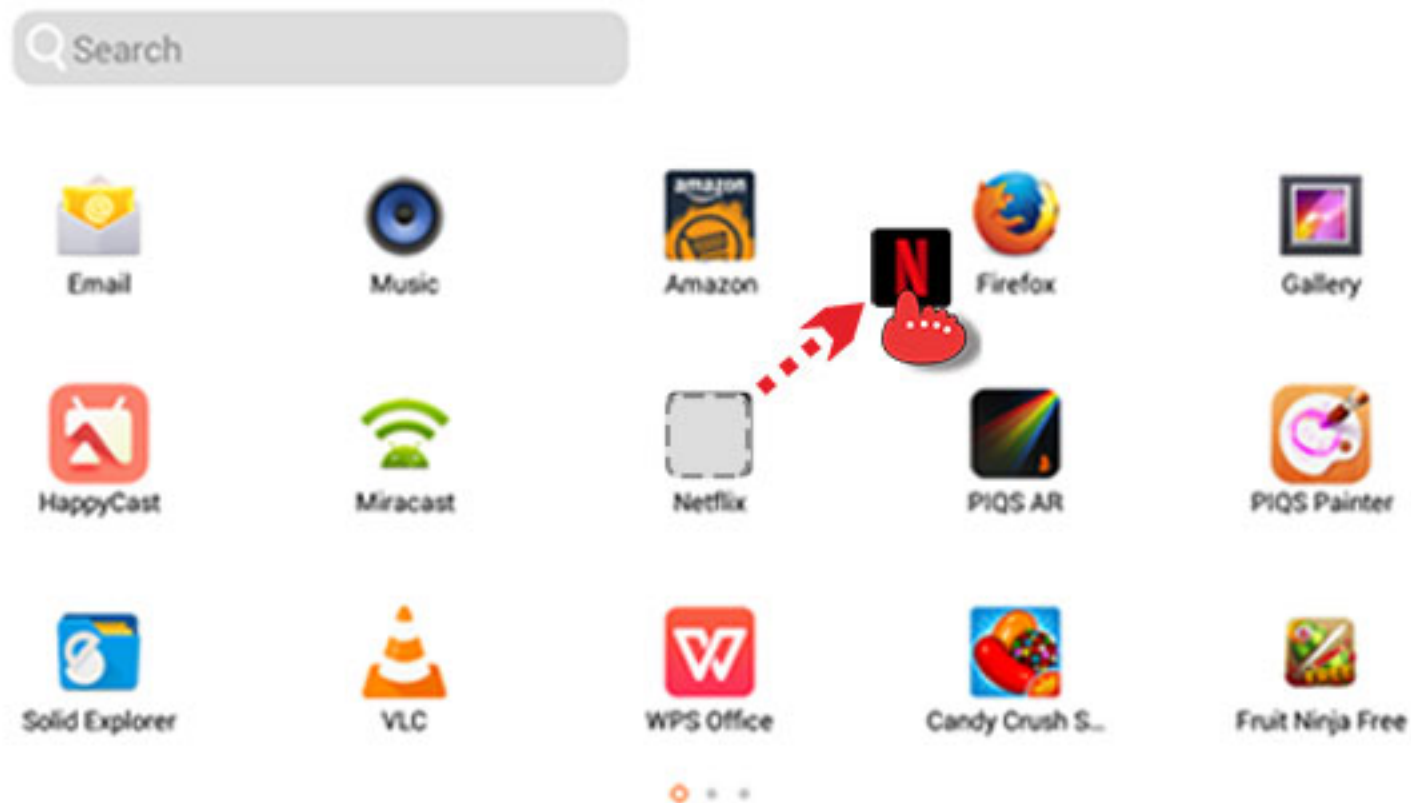
- A folder appears and you can change the folder name.
- Doing the same procedure, you can ungroup certain App in the folder.

08:01 AM

Search

Search

Apps | Files | Business | **Settings**

Firefox | Netflix | WPS Office | Gallery | VLC | Amazon

WiFi | HDMI | Pointer | Auto Focus

Display | User Manual | Clean | Advanced Settings
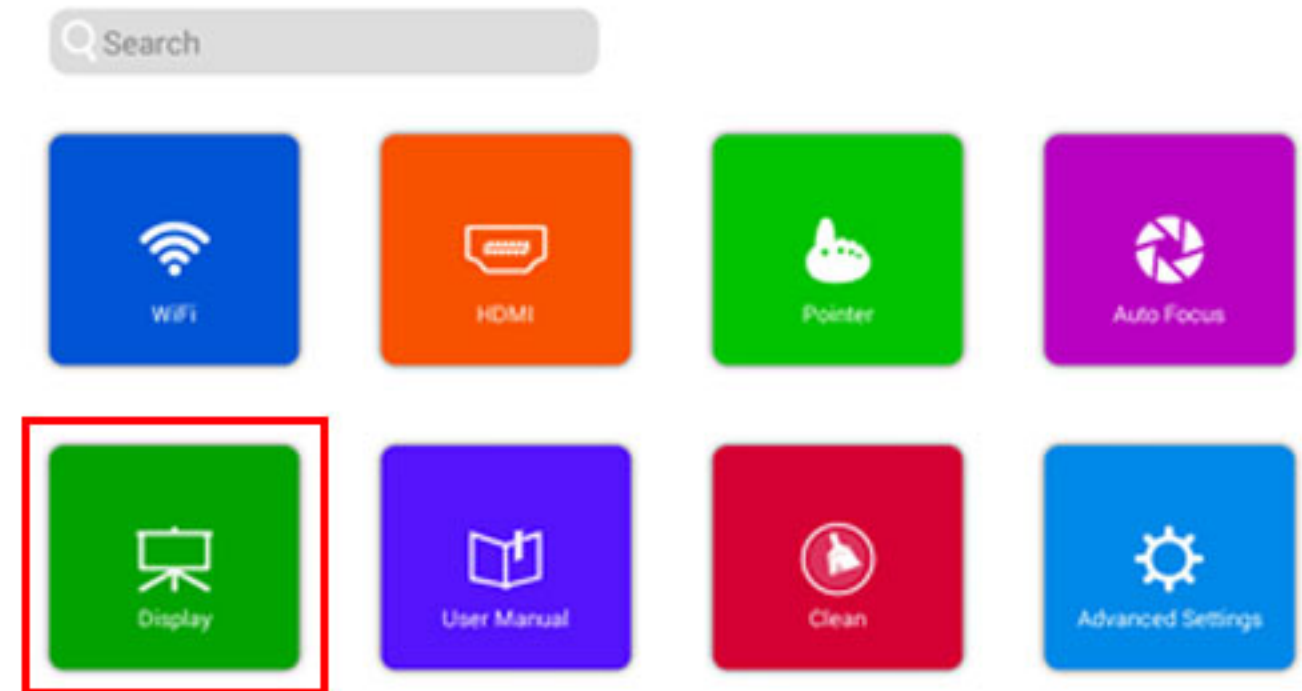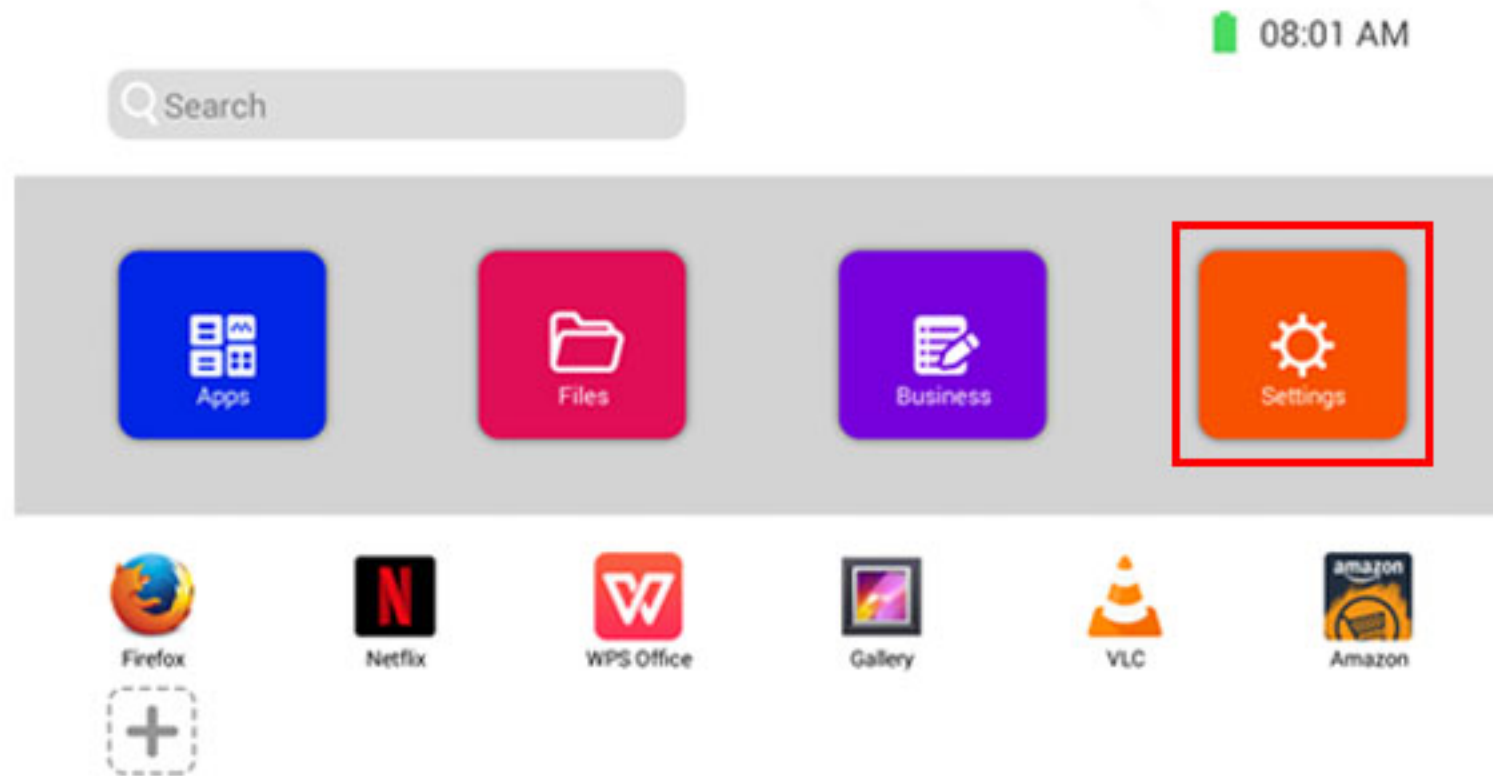
Go to Home Screen > Settings > Display
You can either go to Advanced Settings under Settings to select appropriate features.

b Projection Distance and Screen Size

Screen Size (Inch)

120"

100"

80"

60"

1.5m   2m   2.5m   3m
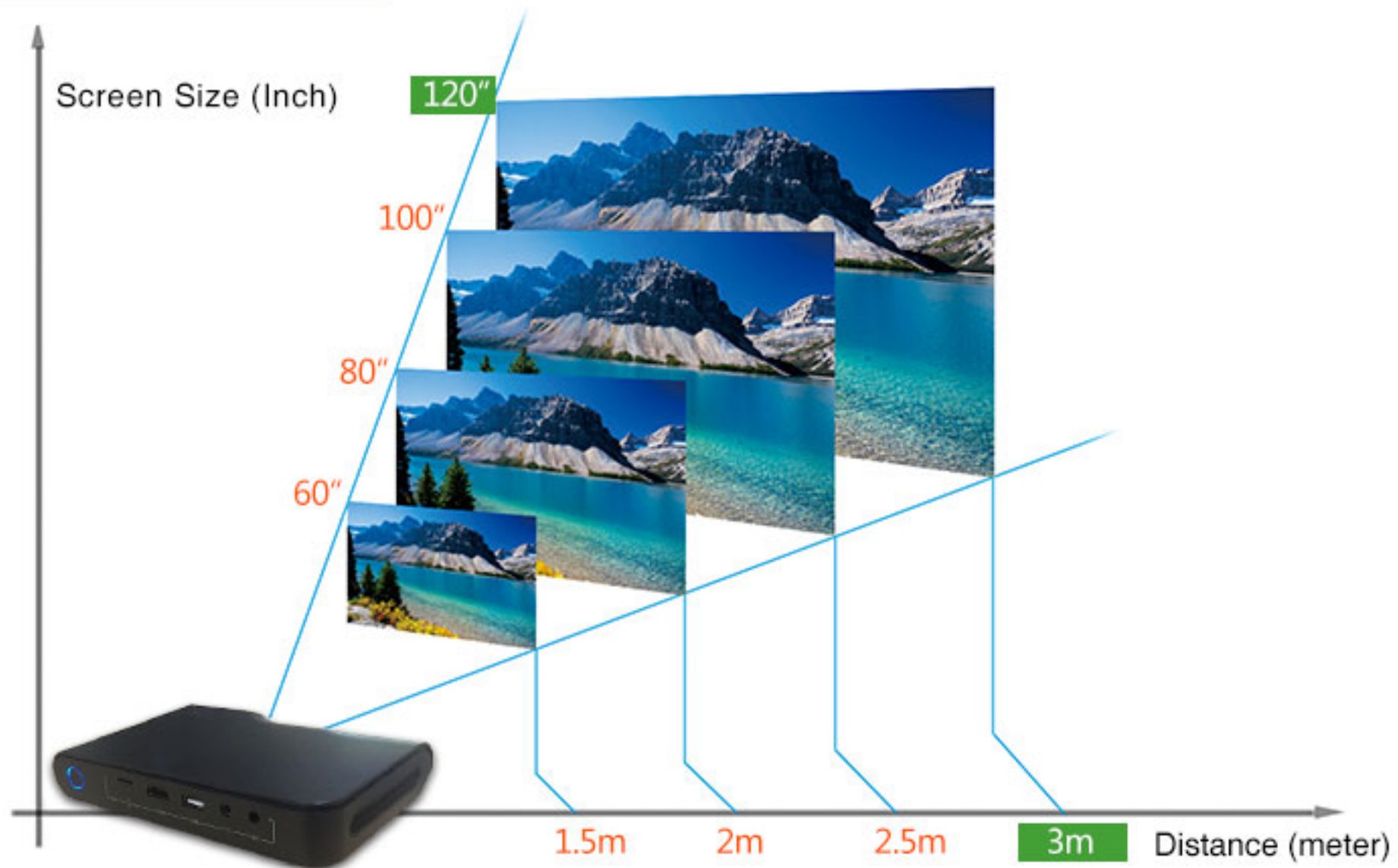
Distance (meter)

Screen Size (Inch)	60	70	80	90	100	110	120
Distance (meter)	1.5	1.75	2	2.25	2.5	2.75	3

C System Upgrade
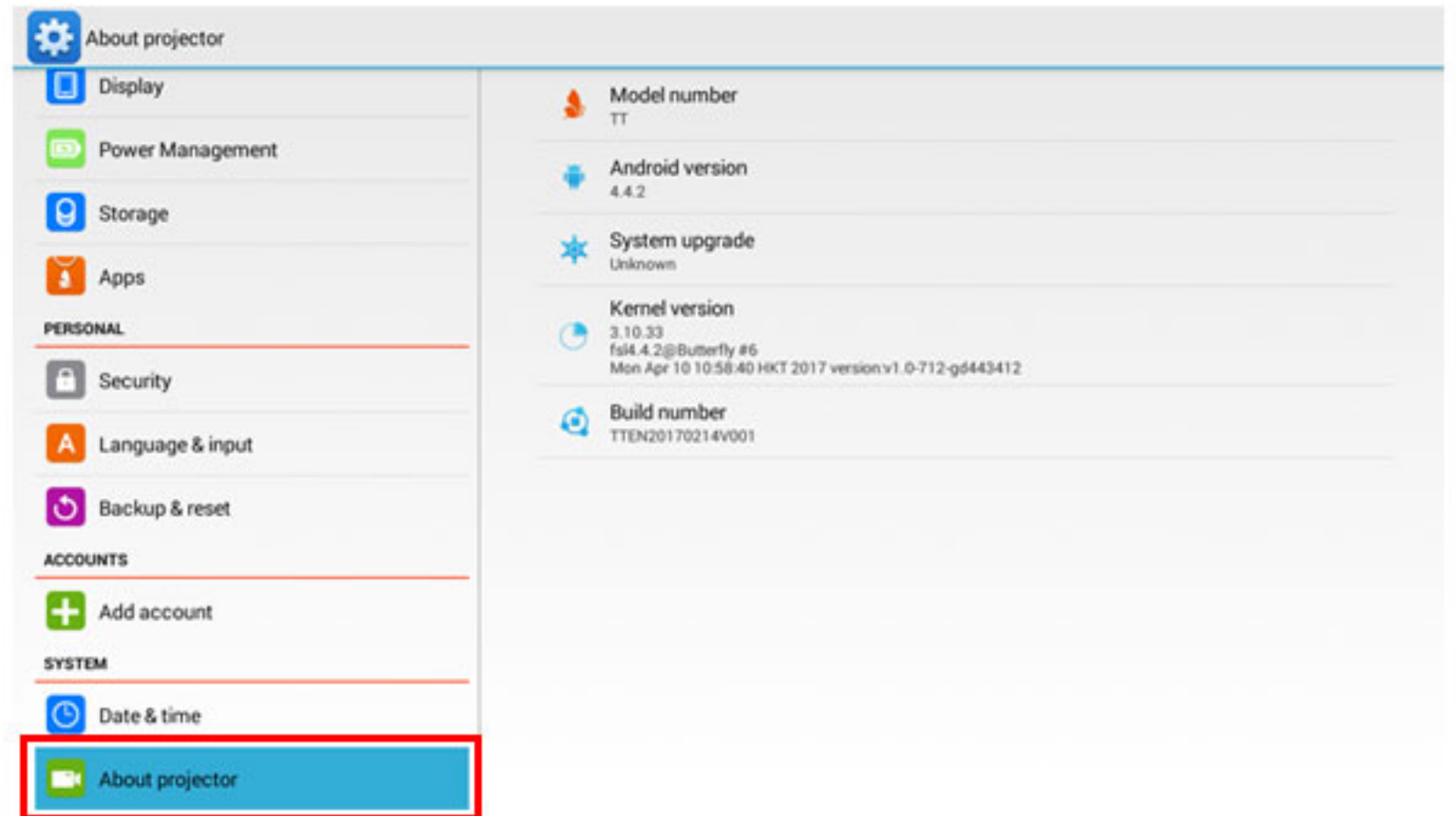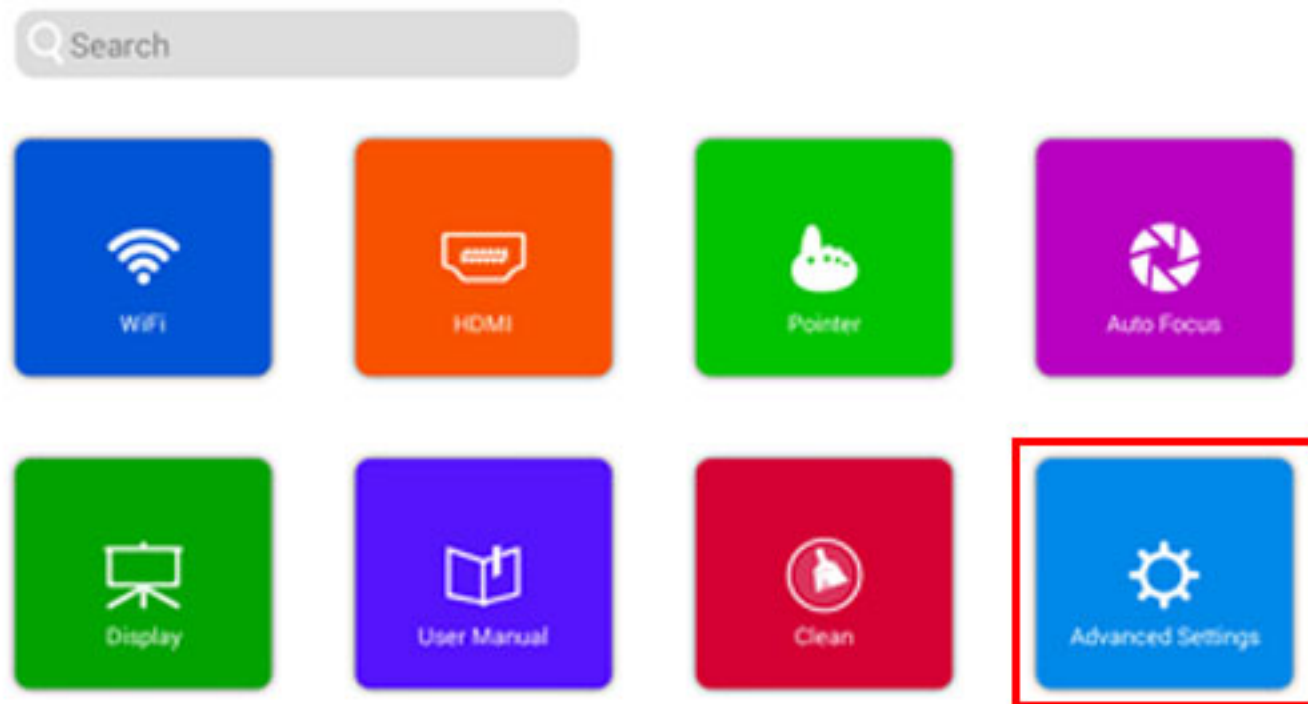
Go to Home > Setting > Advance Settings

- Scroll down to the "About projector" and select it
- Select System Upgrade on the right side of screen
- Follow the instruction to install the updates

Restore to Default Settings
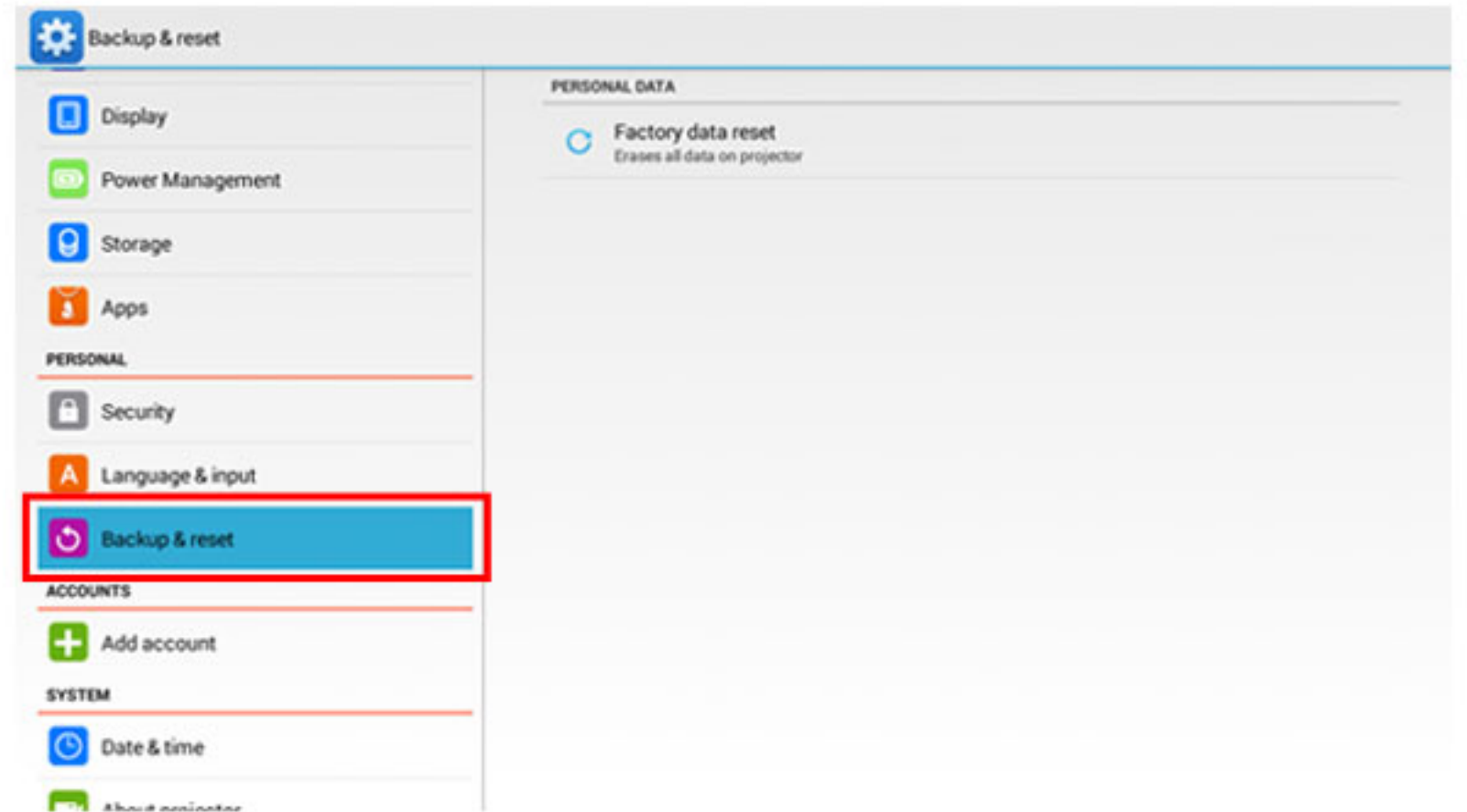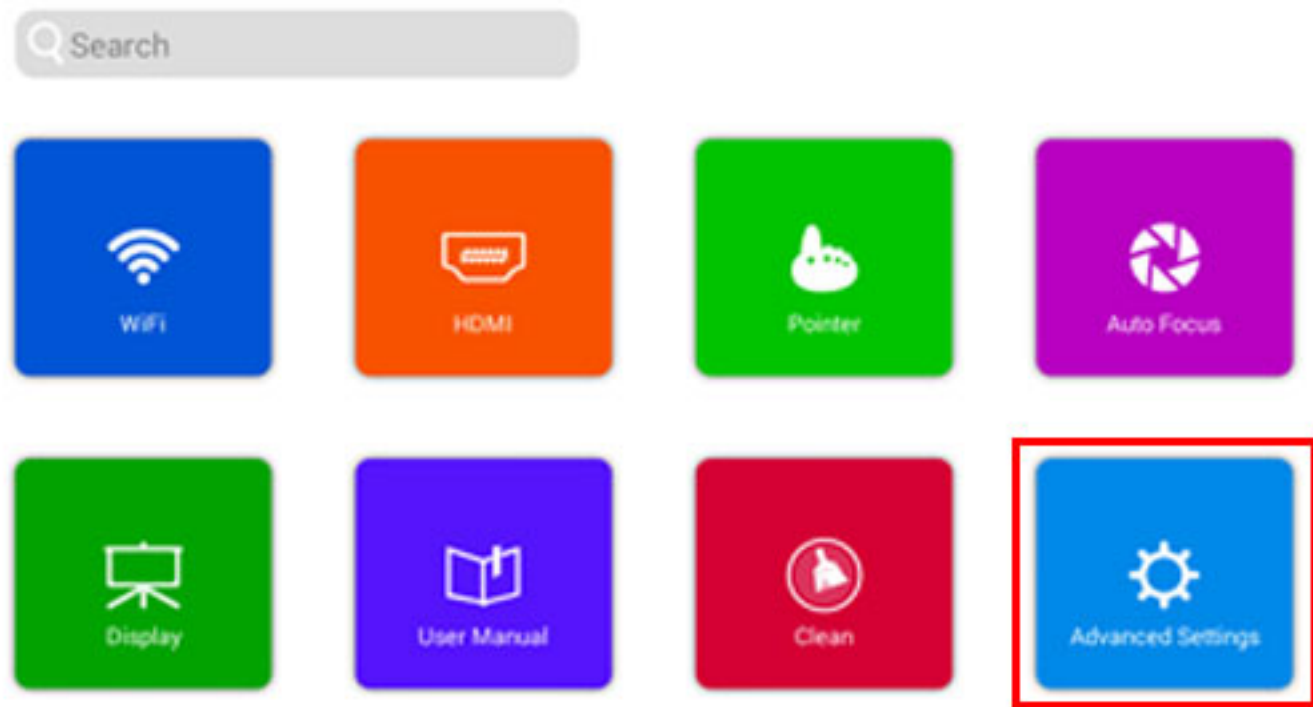
Go to Home > Setting > Advance Settings
- Scroll down to the "Backup & reset" and select it
- Select Factory data reset on the right side of screen
- Follow the instruction to reset the unit

(After reset, all data on the projector will be erased)(Backup feature will be coming soon)

a Auto Focus – Our Patent Technology
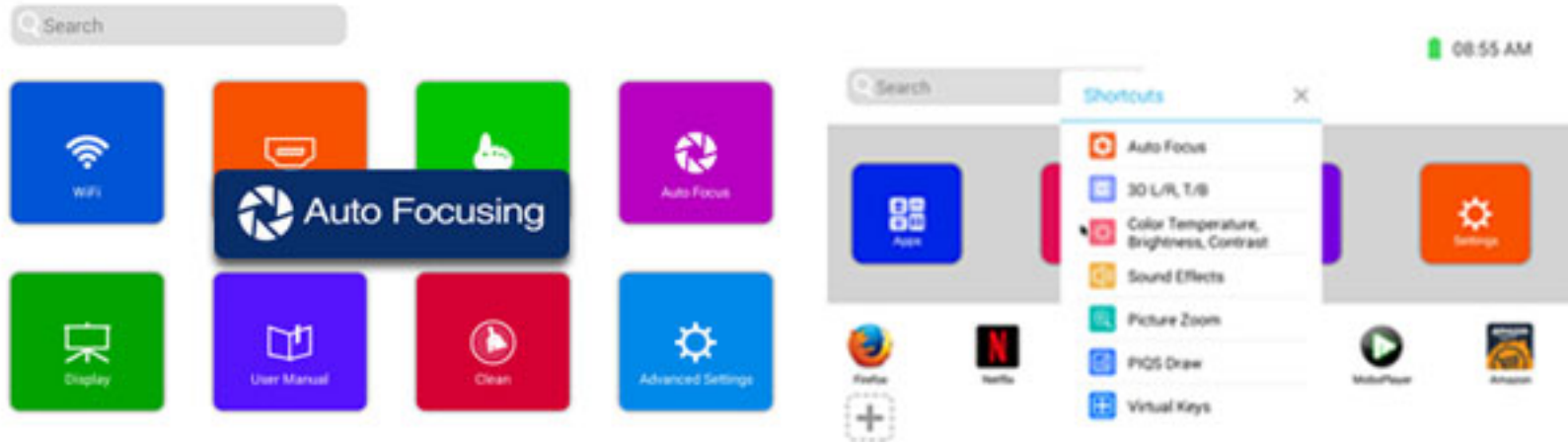
Auto Focus feature will be triggered when it detects motion of the unit. When the unit is on, autofocus need some time to adjust a clear picture and you will see "Autofocusing" on the screen. For instance, if you hold the projector up & down while it is on, the autofocus will automatically start.

You can instantly turn on the auto focus by pressing "Shortcut" on the remote. Either way, you can adjust the focus manually or disable it under the Advanced Setting menu.

* Do not obstruct any object in front of the lens or if the screen surface is too bright or rough surface, it will affect the performance of the autofocus function.

* Virtual Touch Remote function will be stopped temporarily when the unit is Auto Focusing.

Before

After

2S Auto

Auto Focus US Patent No: US 9420245 B2

Ⓑ Auto Keystone

Keystone	
WIRELESS & NETWORKS	
Wi-Fi	ON
Bluetooth	OFF
Auto focus	OFF
Manual focus	
Cursor	
Keystone	
Remote controller pairing	
Data usage	
More...	
DEVICE	
Sound	

Set keystone sensitivity — Normal

Automatic Keystone Adjustment — OFF

Manual Keystone Adjustment

◆ 0
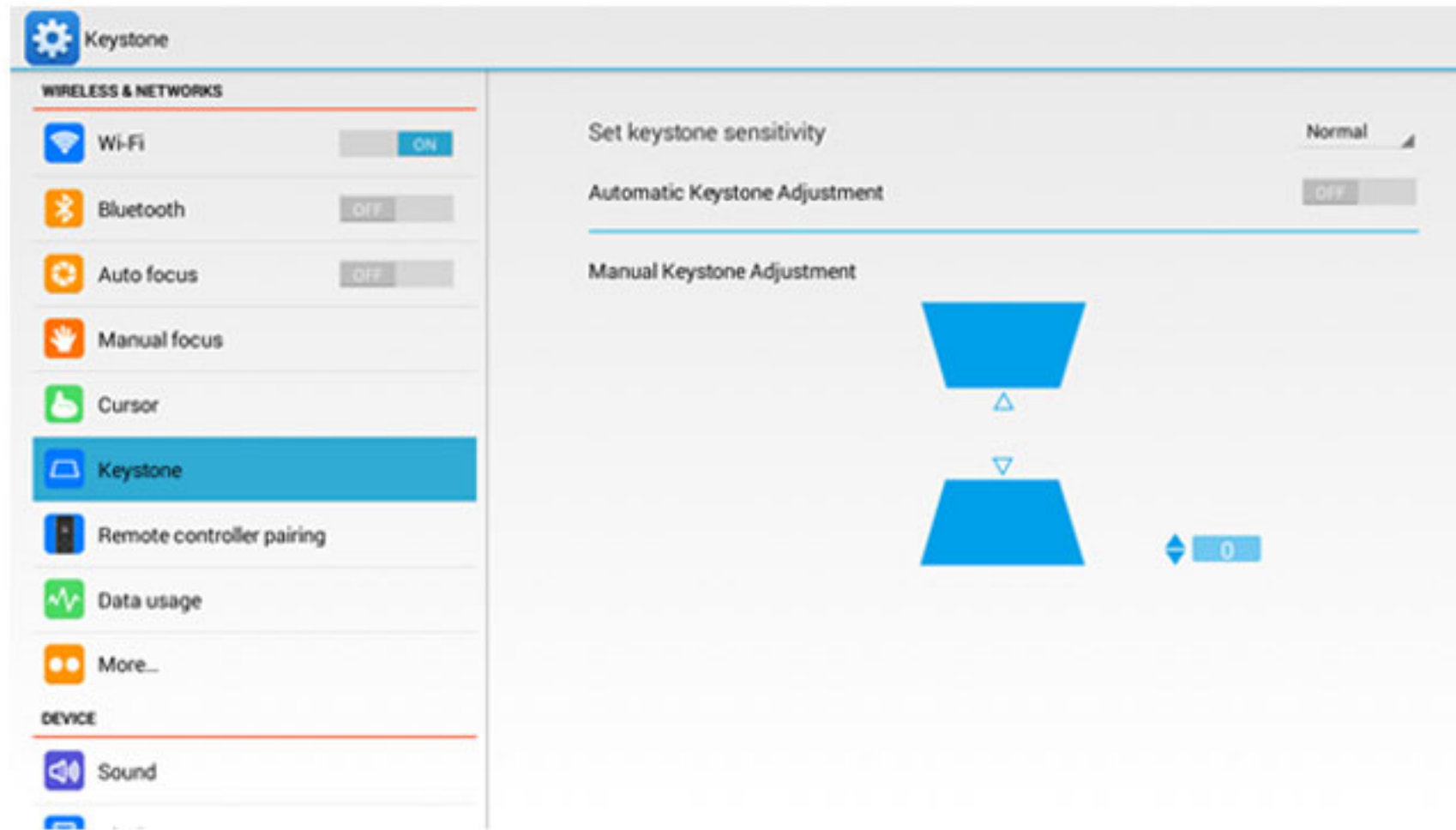
Our unit supports Auto Horizontal Keystone which will be triggered when it detects motion of the unit or screen keystone change.

You can disable this feature or adjust the sensitivity in Advanced Settings menu.

* Do not obstruct any object in front of the lens or if the screen surface is too bright or rough surface, it will affect the performance of the auto keystone function.

* Virtual Touch Remote function will be stopped temporarily when the unit is under auto keystone.

C Virtual Touch
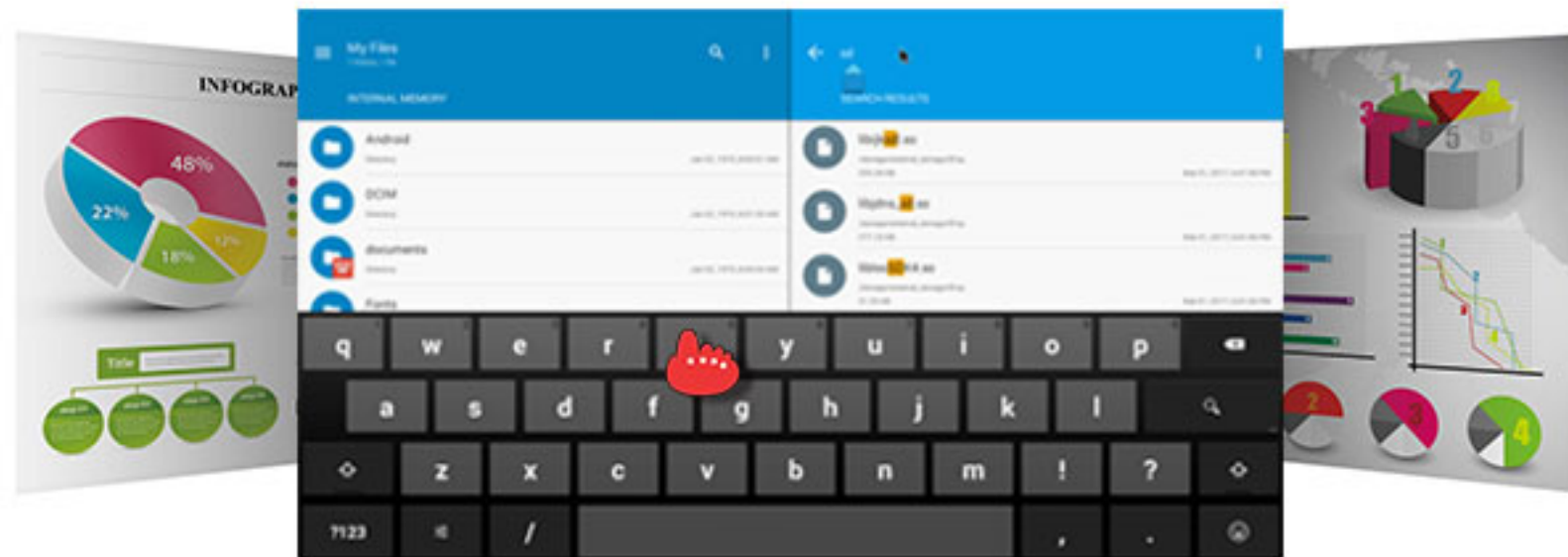
The interaction between you and the projector is by our Patent Virtual Touch Remote Controller. Hold and move your remote when pointing it to the screen, you will see a cursor moving as the remote moves. For instance, press and hold the "OK" key, then move the cursor on screen is just like swiping the screen on your smart phone.

With this unique remote, you can easily type any words on virtual keyboard, zoom in/out under picture viewing mode or play any games simply by tap and click actions.

* Do not obstruct any object in front of the lens or if the screen surface is too bright or rough surface, it will affect the performance of the remote controller.
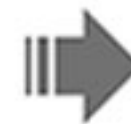
US Patent No: US 9420246 B2

ⓓ Wireless Streaming

For a satisfactory wireless streaming/mirroring, the projector must be in the same WiFi network with the connected devices such as smartphone. (Or turn on your hotspot on smart device, let the projector connects to it or vice versa).

For Android devices:

·   On setting, select Miracast and follow the instruction.

·   Turn on the streaming function (Wi-Fi Direct or Push Screen) on your smart device, follow the instruction according to your device. (For details, please check your device capability on mirroring or push screen.)

*Wireless streaming depends on the type of your smart devices, the stability of your Wi-Fi network. If you face any problem, try to update the Happycast App on the Apps section or consult us for support.

Search	

WiFi	HDMI	Pointer	Auto Focus

Display	User Manual	Clean	Advanced Settings
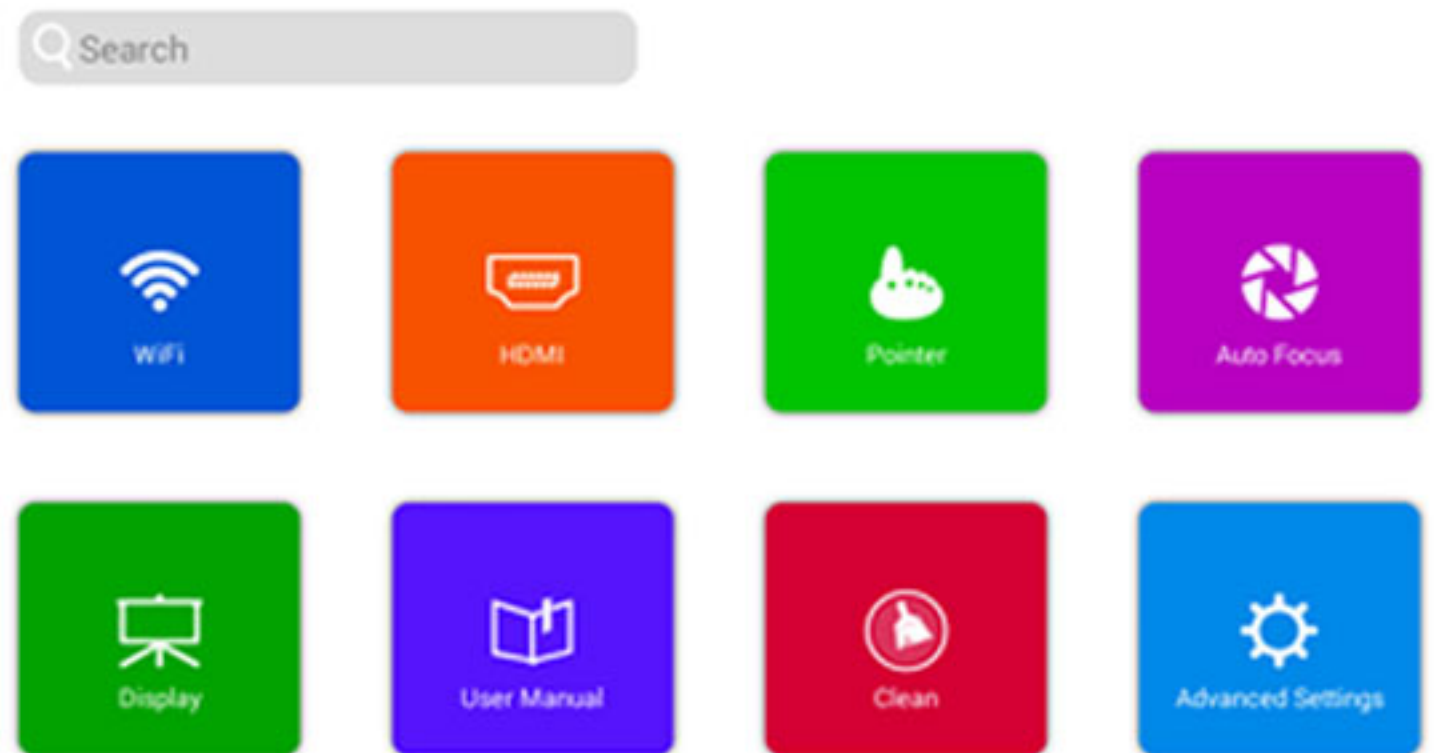
e 3D
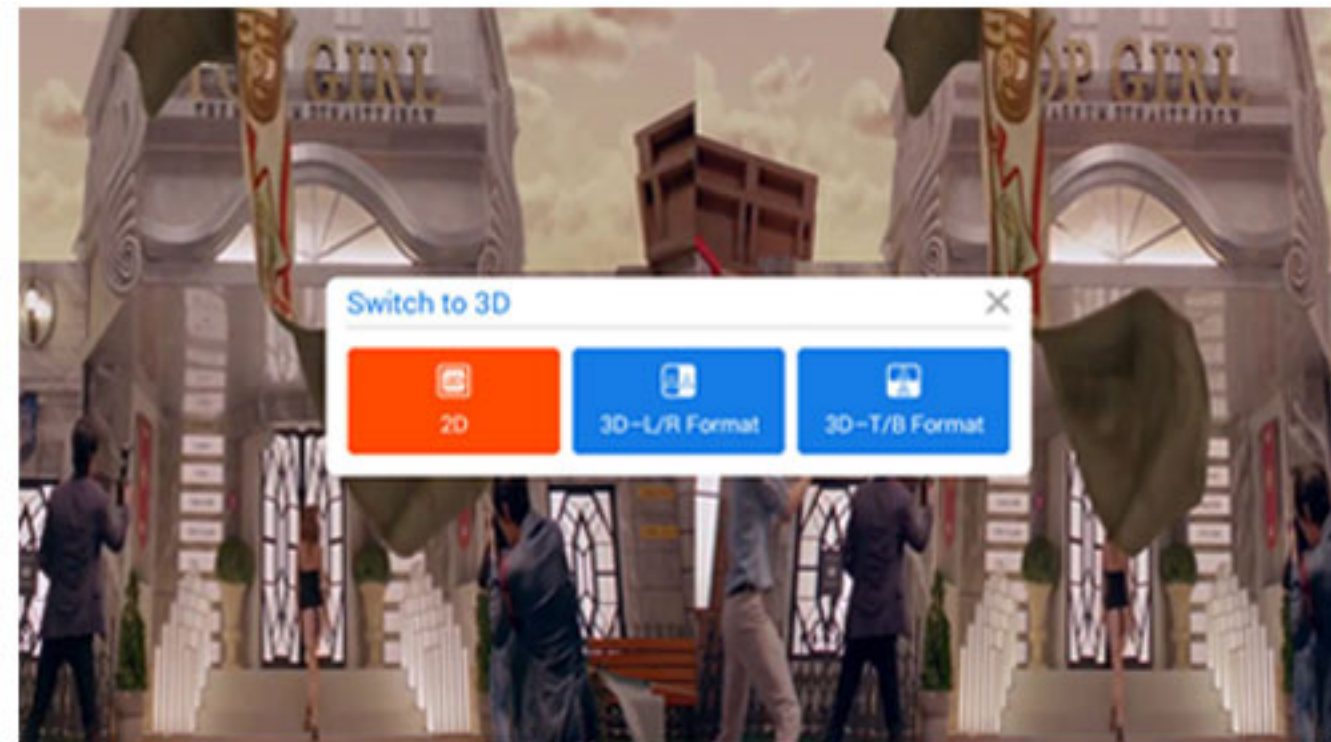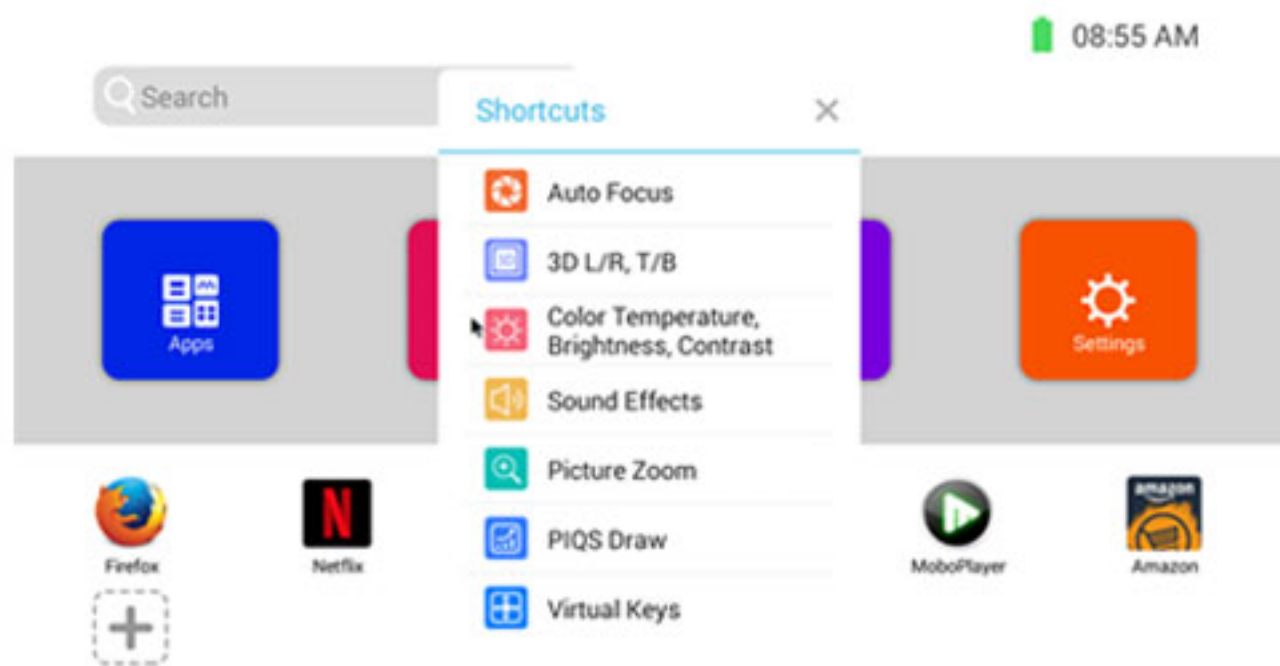
- During video play, you can switch to 3D L/R or 3D T/B depending on your source of video. (3D active glasses is not provided).
- Press "Shortcut" on the remote
- Select 3D L/R or 3D T/B depending on your source of video
- To return to 2D, press "Shortcut" and select "2D"

*Make sure your sourced video is 3D capable and use 3D active glasses.

Care of the Projector

Your projector needs little maintenance. Keep it clean for best performance.

Never remove any parts of the projector.

Cleaning the lens

- Clean the lens by a canister of compressed air to remove dust.

- If there is dirt or smears, use lens-cleaning soft cloth with lens cleaner to gently wipe the lens surface.

- Never rub the lens with abrasive materials.

Cleaning the Projector Case

- Before you clean the case, turn the projector off and unplug the power cord.

- To remove dirt or dust, wipe the case gently with soft cloth.

- Never use wax, alcohol, benzene, thinner or other chemical detergents.

Vent Maintenance

- If dust collects on the vents, remove them by a soft cloth.

If a problem occurs that cannot be corrected with the instructions in this user manual (see also the help below), or contact us.

Problem	Solution
The projector does not turn on.	Make sure the power cord of the projector is plugged into the wall power AC inlet. Charge the battery for some time and restart.
The image is blurred.	Shake the unit a bit and trigger the Auto Focus feature. Restart the unit. On Advanced Settings, turn off Autofocus, and then turn on manual focus to adjust. After that, turn on the autofocus again.
Cannot see the remote controller pointer on the screen, or the pointer is flicking.	Avoid using the projector in sunlight and a bright light environment. Charge your remote controller. Hold and point the remote to the screen without blocking by any obstacle. Repair the remote controller by pressing "Volume (+) & (-) for 5 seconds close to the projector. The status light on the remote blinks first and remains lighted later. During autofocus/auto keystone, the remote is temporarily stopped.
Cannot connect to Wi-Fi.	Make sure the projector is in the range of Wi-Fi network. Check the password is correct. Restart the unit.
No sound	Check the volume on the remote controller. Check your source media or your volume control on streaming device.
No picture after connecting to other devices through HDMI slots.	Check you have connected the correct cables, HDMI is detected automatically. Check the App which plays the video or image support the media or not. Check the resolution of your connected device or try different resolution setting in your device.
3D is not working	Make sure your 3D glass is active shutter type which is battery powered. Make sure your source media supports DLP Link 3D Ready.
Brightness is dropped	The brightness will be adjusted if there is no power supply connected. Connect the power supply, the brightness will be increased automatically.

Model	PIQS TT
Operation System	Android 4.4.2
CPU	Cortex A7 Quad-Core, 1.5GHz, Mali Quad-Core GPU, 2GB system on board
Internal Memory	16GB
Control Interface	Virtual Touch Interactive by G-sensor remote controller
Projection System	DLP 0.3" DMD
Native Resolution	HD 720p (1280 x 720)
Maximum Resolution	Support up to 1080p
Brightness	Up to 400 Lumens
Contrast Ratio	5000:1
Aspect Ratio	16: 9 Native
Display Color	Full 16.7 million color palette
Projection distance to Projection Image Size	1m to 40 inches, ; 5m to 200 inches (Image size is diagonal)
Throw Ratio	1.12 (100% off-set)
Light Source	3LED (RGB)

Model	PIQS TT
Light Life	30,000H
Focus	Autofocus by image capture camera or Digital Adjustment
Keystone	Auto Vertical Keystone or Digital Adjustment
Wireless	Wi-Fi and Bluetooth Operation Frequency Range: WiFi:2412MHz~2472MHz, 5150MHz-5250MHz,5725MHz-5825MHz and Bluetooth: 2402MHz~2480MHz ; Maximum power: WiFi2412MHz~2472MHz is 19.9dBm; WiFi5150MHz~5250MHz is 20.3dBm; Bluetooth3.0:2402MHz~2480MHz is 9.8dBm; Bluetooth4.1:2402MHz~2480MHz is 8.3dBm
Input Terminals	HDMI x 1, USB x 1, MicroSD x 1
Output Terminals	Audio jack (3.5mm) x 1 , 1.5W Speaker x 2
Battery	Projector: 8700mAh/3.7V (32Wh), Up to 180 mins Remote : 1000mAh, Standby – minimum 2 weeks, running up to 30 hrs (*Battery life depends on the usage)
On-Screen Display Language	Selectable under android system
Power supply	19V DC 3.42A (100-240V AC50-60Hz)
Power Consumption (w)	30W
Unit Dimensions	7.5 x 4.86 x 1.16 inch (190 x 123.5 x 29.5 mm)
Net weight	1.25 lb / 570g (Main Unit)
Accessories	Power Adapter / Virtual Touch Remote controller / Quick Start Guide / HDMI Cable USB Charging cable for remote/Magnet ring

*Specifications are subjected to changed without further notice.

Virtual Touch Projector

Model: TT   FCC ID:2ALH2-PFAT100   IC:22519-PFAT100

WARNING:

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, changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

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.

RF EXPOSURE STATEMENT:

For the product, under normal use condition is at least 20cm away from the body of the user, the user must keep at least 20cm distance to the product.

IC Caution

Attention IC

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1) this device may not cause interference,

2) and this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

1) l'appareil ne doit pas produire de brouillage, et

2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est

susceptible d'en This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

les dispositifs fonctionnant dans la bande de 5 150 à 5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux

This device is class 2 product, in door use only, the abbreviations for Member States as follows:

BE	BG	CZ	DK
DE	IE	IE	EL
ES	FR	HR	IT
CY	LV	LT	LU
HU	MT	NL	AT
PL	PT	RO	SI
SK	FI	SE	UK
CH	IS	LI	NO

PIQS is a trademark of Butterfly Technology (Shenzhen) Limited. Other trademarks are the properties of their respective owners. Values, weights and dimensions are approximate. Specifications are subject to change without prior notice.

Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaim any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

Android is a trademark of Google Inc.

DLP is a trademark of Texas Instruments Inc.

Airplay is a trademark of Apple Inc.

iOS is a trademark of Apple Inc.

iPhone is a trademark of Apple Inc.

All other product names used in this manual are the properties of their respective owners.

Butterfly Technology (Shenzhen) Limited.
Address: 6F Building 1, No. 35 Cui Jing Road, Pingshan New District, Shenzhen, 518118, P.R.C.
Tel: 86-755-86139000   Fax-755-86139206   E-mail: global@butterflytechnology.com
www.piqs.com