

M8 Ultra Short Throw DLP Laser Projector



User Guide

Caution! 🛆

WARNING: The AAXA M8 is an RGB Laser Projector. It is a Class 1 Laser Product and complies to 21 CFR 1040.11 and 1040.11 except for conformance as a Risk Group 2 LIP as defined in IEC 62471-5. For more information see Laser Notice #57 dated May 9 2019

WARNING: CLASS1LASER - DO NOT STARE AT BEAM .

- DO NOT expose to water or wet surfaces. Electric shock may occur
- DO NOT operate Outdoors or in high humidity or dust environments
- DO NOT expose the projected Laser image to your eyes or the eyes of others
- DO NOT block or restrict airflow from ventilation holes as this may cause the projector to overheat
- Keep the projector and charger away from any heat sources

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M8U at a Glance

Main Unit







Chapter 1

- 1 HDMI
- ② USBC MIRROR
- ③ Optical Audio
- ④ USB
- 5 Headphone Out
- 6 OK/Power Button
- ⑦ Return
- ⑧ Focus+/Right
- 9 Focus-/Down
- 10 TF CARD
- 1 LED Indicator
- 12 D/C Power
- 13 PIR Eye Safety Sensor
- (1) Projection Lens

Remote



- 1 Mute
- Up

③ Right

④ Down

- (13) Volume Down
- (14) Home
- 15 External Mount Zoom Control
- 16 Focus-
- 5 Mouse Cursor
- ⑥ Volume Up
- ⑦ External Mount Zoom Control
- 8 Focus+
- 9 Power On/off
- 10 Left
- 1 Confirm
- 12 Return

The side buttons on the projector can also be used to navigate through the menus.

Note: The M8 features a Mouse Cursor Mode which can be activated by pressing the "Mouse Icon" on the remote control. This cursor allows users to manipulate content in apps that require a mouse to access. Press the "Mouse Icon" again to exit this mode.

Accessories



*Under various circumstances, the actual accessories may be different from those shown in the pictures above. Additional accessories are available for purchase at www.aaxatech.com

Getting Started

Chapter 2

Powering ON the projector

- The M8 requires a 20V 3A (60 Watts) USBC Power Source. Standard USBC Power Adapters will NOT power on the M8. Universal High Powered 20V 3A Power Supplies are required. The M8 includes a 65 Watt USBC 20V Adapter.
- 2. Connect the USBC Power cable to the power port of the projector and the other end into the power adapter.
- 3. Press the "Power" Switch on the side of the projector or the Power Button on the remote control to turn on the projector.

Powering OFF the projector

1. To turn the projector off press the "Power Switch" or the "Power Button" on the remote control.



Getting Started

Placement

The M8 Projector is designed for standard projection, overhead projection or rear projection. The projection orientation can be changed in the settings submenu. A flat ALR screen designed for UST (Ultra Short Throw) projectors is highly recommended. An ALR screen designed for standard throw projectors is not recommend. When using walls or projection paint please keep in mind that most walls are not perfect flat or straight and the projected image will appear crooked or out of focus on most walls. The M8 will very quickly demonstrate which walls are out of alignment – this is not a projector fault.



Eye Safety

- Laser Warning The M8 is a class 1 laser projector with a RGB laser light-source. The projector beam cone – of up to 24" away is dangerous for the human eye. DO NOT STARE INTO THE BEAM.
- 2. Eye Safety System The M8 incorporates a radar (or TOF on some models) based eye safety system. This system detects objects including humans and pets that move in the projected image. This detection will shut down the high brightness portion of the projected image with an error message. Press any key on the remote control to return to normal viewing. On occasion there will be false positives. Users can reduce the sensitivity or shut down the eye safety system in the Advanced Settings Submenu. Do so at your own risk.
- 3. Picture of a screen "Eye Safety function Activated, Press any button to resume"



Other Setting	
Start Source	
Startup Application	
Power On Mode	
Eye Safety	

Focus Adjusment / Throw Distance

Focus Adjustment

- The M8 features electric focus adjustment that can be controlled with either the remote control or on the projector.
- Press the focus button [F+], [F-] on the side of the projector until the image becomes clear.



Throw Distance Chart

Throw Distance	Diagonal Screen
Units: Inches	Units: Inches
8	77
12	100
16	123
20	146
24	169
28	192
32	215
34	226
36	238
38	250

DIAGONAL SCREEN SIZE



Throw Ratio: 0.2:1 Projection Angle: 150% Offset *minimum throw distance: 5 inches

Throw Distance Notes: The M8 Throw Distance calculation accounts for an additional 5.5" from the output lens to the base of the projector. The Minimum throw distance is 5" (from the base of the projector) but the calculated throw distance would be 5" + 5.5". Focus aberration issues will exist below minimum throw distance.

Connecting Audio

The M8 features 3 connection options:

Optical Audio

Bluetooth 5.4

· 3.5mm Headphone

- Wired Devices can be connected by directly plugging into the respective ports
- Optical Audio can be toggled on in the Settings -> Advanced Submenu
- · Wireless Bluetooth Connection Please see page 31 (Bluetooth) for connection details





Loading External Content

The M8U Projector can read files directly from both a TF Card and USB Drive. Supported file types include: MP3 / WMA / OGG / WAV / AVI / MP4 / JPG / GIF

How to insert your TF Card

- Slide in your TF card into the TF card slot on the side of the M8U
- Gently slide the TF card until it clicks into place.

How to insert your USB Drive

- Slide your USB Drive into the USB port.
- Gently slide the drive until it cannot go in any further



Loading External Content (Cont)

Once your TF Card or USB Drive is inserted into the projector, the files will be accessible through the Files Submenu. In this submenu you can search for Pictures, Videos, Music, or Office files. You will also see "Internal Storage" files. We do not recommend loading additional files in "Internal Storage" as this space should be reserved for App and System Data.



Menu Screens

Chapter 3

Main Menu

The M8 is based on an Android Operating System features an easy to use menu overlay that makes most projector functions accessible. Users can control projector settings, access HDMI or USBC input sources, play back videos or pictures, access streaming apps, and mirror smart devices.



- · Press the left and right directional buttons to choose an icon from the main menu.
- To select a menu option, press the "OK" button in the projector.
- To go back to the previous screen, press the "Exit/Back" button.
- To return to the main menu, press "Exit/Back" one or more times, until it goes back to the main menu.

WiFi Menu (How to connect to WiFi)

How to connect to WiFi:

- In the Main Menu, choose the "WiFi Setup" icon (Fig 3.1)
- In the WiFi Menu, toggle the WiFi icon to "On" and select the WiFi network you desire. Enter password and connect. (Fig 3.2)
- If you inadvertently enter the wrong password you can reset by "Forget" the network and trying again
- Connect to 5Ghz Routers for best performance. Use only 2.4Ghz connections if 5Ghz is unstable due to interference. Mirroring performance may be affected on 2.4ghz router connections.



Mirroring Menu

How To Screen Mirror Smartphone:

- In the Main Menu, select "Mirroring" (Fig. 3.3)
- The M8 allows users to wireless mirror their smart devices. For Android (including Samsung SmartView) mirroring the projector should be connected to 5ghz Router Access.
- To mirror a Type C device (Iphone, Notebook, Ipad) please see Page 22 "Connecting to Type C Devices"



Mirroring Menu

Network Se	etting		Settings	Wi-Fi	Edit
	Wi-Fi				
	Network Refresh		Wi-Fi		
	✓ AAXA	Connected 후 & >	✓ AAXA		🕯 🗢 🚺
	AAXA-5G				

To screen mirror, your devices and the M8U have to be connected to **the same WiFi network**. DMCA (copyright) content cannot be wirelessly mirrored. This includes content from streaming services such as Netflix, Hulu, Disney+, etc.

Mirroring Menu



To screen mirror Samsung smartphones, after connecting the M8U and your device to the same WiFi network, select "Smart View".



To screen mirror iOS device, after connecting the M8U and your device to the same WiFi network, please select "M8U_XX" in the Screen Mirroring menu.

Files Menu

Opening A File:

- Once your TF Card or USB Drive is inserted into the projector, the files will be accessible through the Files Submenu. In this submenu you can search for Pictures, Videos, Music, or Office files. You will also see "Internal Storage" files. We do not recommend loading additional files in "Internal Storage" as this space should be reserved for App and System Data.
- Select the "Files" icon in the Main Menu (Fig 3.5)
- In the Files Menu, select the external content device (USB/ Micro SD -TFCard) that contains the file you wish to open (Fig 3.6)



The M8U will show all folders and files you have on your USB or TF Card drive. Use the remote control to select folders or files.

Browser Menu

How to open an internet browser in the M8U

In the Main Menu, select the "Browser" icon. Once the Chrome browser opens, use the remote control to move the cursor around.



Apps Menu

The M8 features an Android Operating System and enables the use of some Android Apps. In addition the M8 features the App Store feature which supports a variety of different downloadable Apps.

To access more apps in the M8U:

- In the Main Menu, select the "Apps" icon (Fig 3.7)
- In the Apps Menu, select the app you wish to open (Fig 3.8)

Note: The M8U isn't designed for some streaming apps. A smart TV stick is suggested.



Apps Menu (Cont)

The M8 features App Store functionality which allows users to download supported apps. Not all apps are region compatible. Some apps (such as Netflix) require mouse cursor mode. To use the App Store Click on the App Store Icon (Pictured Below).

- External Apps: Some apps can be directly installed from an external APK.
- Removing Apps Highlight the App Icon and Long Press the "Home" button on the remote control.



ZEAS

Connecting to Device via Digital Input

In the Main Menu, Select the "Inputs" icon, then select the "HDMI" Icon



Connectivity to Multimedia Devices

The M8 can connect to a variety of multimedia devices via the onboard HDMI and USBC ports. These devices can include:

- HDMI Devices such as Smart TV Sticks (Like Amazon Fire Stick), Notebooks, Device Players, Smartphones, Tablets
- USBC devices such as Smartphones, Tablets, Game Consoles

*Some smartphone require video out capabilities to be displayed with the M8U. Check with your phone's manufacturer.

Connecting to Digital Input Video Devices

Connecting a USBC Device

Low Power USBC Devices can be connected and displayed on the M8U. These devices include Android Phones, Iphone 16, and Nintento Switch. Some higher power devices may not be connected as the USBC port cannot deliver enough power to support the device charging. Most devices will connect directly – some devices such as Samsung Phones require the user to select either DEX (desktop) or mirroring mod. Please see page 22 "Connecting to Type C Devices"

Connecting a HDMI Device

HDMI devices can be directly connected to the M8 Projector. Some Notebooks may not autodetect the HDMI connection. Users can then select "Display" (Right Click) and "Detect" functions on windows based notebooks.









Connecting a TV Stick

A TV Stick can be connected to the HDMI port. TV sticks typically require power – the Onboard USB port can deliver 5V 1.0A of power but this may not be enough for some TV sticks. External power may be required.



Connecting to Type C Devices

IMPORTANT: Not all smartphone/tablet supports USBC Mirroring. Please confirm your device have USBC Video Out capabilities.

Step 1: Connect one end of the USBC Video Cable to your device's USBC port.

Step 2: Connect the other end of the USBC Video Cable to your M8U's USBC MIRROR port.

Step 3: In the Input Menu, select the "TYPE C" Icon. Your M8U should now be mirroring the content from your device.

Note: Not all USBC to USBC cables are compatible. Please confirm your USBC cable supports transmitting Video signals. A Video USBC cable is included with the M8.

Note: Not all USBC mirror devices can be supported by the M8. Some devices such as large tablets (high power draw) cannot be supported.



Picture Menu

The Picture Menu allows the user to adjust the projector's output image. Functions include Brightness (See page 25), Display (See page 28), and Focus (See Page 4)



Settings Menu

Chapter 4

The Settings Menu can be accessed by selecting "Settings" in the Main Menu. Within the Settings Menu there are additional submenus that adjust projector configurations.





- Brightness
- Wireless
- Advanced
- Language

- Display
- Bluetooth
- Upgrade/Reset
- About

Brightness Menu

To change the brightness on your M8U

- Select the "Settings" icon (Fig. 4.1)in the Main Menu then choose "Brightness" (Fig. 4.2)
- Select your desired brightness mode (Fig. 4.3):Eco Mode/ Standard Mode/ Boost



"Boost mode" should only be used in low temperature, low altitude environments with adequate clearance of exhaust/intake vents. **DO NOT block vents while operating in Boost mode.**

Advanced Settings

M8 U		SETTIN	IGS MENU	Other Setting	s	
					SlatSoOte	4 Off >
-Ò-		$\left(\frac{1}{2} \right)$	Aa		Startup applicatio	< default ►
T.					Power on mode	direct ►
BRIGHTNESS	WIRELESS	ADVANCED	LANGUAGE		Eve Safty	≺ off ►
					Sound Effects	
	(*)	°Q°	(optical fiber	
DISPLAY	BLUETOOTH	BACKUP/RESET	ABOUT			

In the Advanced setting menu, you can set up:

- Start Source: The Start source designates a boot to source after startup. This can either be HDMI 1, HDMI 2, or USBC
- Power On Mode: The Power On Model (Secondary) allows for "Wake on Signal" configuration.
- Eye Safety: The Eye Safety allows for Low/Middle/High/Off configuration. Please see the Eye Safety section for more information
- Key Tone: This enables the cursor key tone (when highlighting different icons)
- **Optical Audio Output**: Enable this when Optical Audio Output is connected. This will disable the onboard speaker.
- HDMI CEC: Enable this to allow the Projector Remote to control external devices (such as a TV Stick)

Language



In the Language Settings menu, you can select your preferred language, and update Keyboard settings.

Display Settings



In The Display Settings Menu the user can configure:

- Keystone: 4 Point Adjustment, Keystone Reset
- · Projection Orientation: Front / Rear Projection, Standard / Inverted
- Image Mode: Auto, 4:3, 16:9
- · Color Temperature: Cool, Medium, Warm

Keystone Adjustment FAQ



What is Keystoning?

"Keystoning" occurs when a projector is aligned non-perpendicularly to a screen, or when the projection screen has an angled surface. The image that results from one of these misalignments will look trapezoidal rather than square.

Keystone Adjustments

By adding a special, selectable algorithm to the scaling, some new projectors are able to alter the image before it reaches the projection lens. The result is a squared image, even at an angle.

Keystone Adjustment FAQ

How to Correct Keystone

- Select the corner(s) you would like to adjust, press "OK"
- Adjust the X and Y axis of each corner until the picture turns into a rectangular projection
- To reset Keystone adjustments, select "Restore" and click OK on your remote control



Bluetooth Menu



The M8 Features Bluetooth 5.4 low latency connectivity. For best results (lowest latency) connect your speakers using the optical audio port.

How to Connect A Bluetooth Device (Audio Output)

- In the Settings Menu Toggle On the Bluetooth Function
- Scan for Bluetooth devices by selecting the scan option. On your Bluetooth speaker press the Bluetooth button or toggle the speaker On/Off

Unable to Discover: If you are unable to discover your device, try toggling your device on/off first and then toggling the Projector Bluetooth On/Off. Use Scan mode to attempt to identify. **Notes**: Bluetooth connectivity is for audio output only. It cannot support Audio Input, File Transfer, or Video Streaming

Back Up & Reset



- Reset: Resets all user saved data in the device Use with caution
- Android Update: This checks for Updates and Updates the system as needed
- Update System: The system update checks for a new system update file that is typically a large file loaded onto a USB Flash Drive. If the file exists the system will automatically update. Allow up to 15 minutes for a complete update. Reboot the System as necessary. If No Update File is found the projector will perform a self check and reboot.
 NOTE: System Updates should be performed by service and repair technicians only unless otherwise advised.

About Menu



How to view M8U "About" information

- In the Settings Menu, go to the About Menu by selecting the "About" icon
- In the About menu, you can view System Version, AvailableStorage, IP address, and more.

Troubleshooting

1. I cannot connect my iOS devices to the M8U

Possible Causes	Solution
(For wired connection) Incorrect cables or connectors	 To connect your iOS devices with Lightning port to the M8U, please use the Official Apple Lightning to Digital AV Adapter and connect via the Digital AV port. To connect your iOS devices with USBC port to the M8U, please use a USBC Video cable and use the Type C Input on the M8U. Alternatively, you may use a USBC to HDMI cable to connect via the Digital AV port.

2. AIRPLAY DOES NOT WORK

Be sure to connect your iOS device and the M8U Projector to the same WiFi network. Choose "M8U_XX" as the device you wish to screen mirror from your iOS device, unless you have changed the M8U's nickname.

3. I cannot wirelessly screen mirror Netflix, Amazon Prime, Disney Plus, etc.

Possible Causes	Solution
For wireless connection, DMCA content including Netflix, Amazon Prime, Disney Plus content is not sharable wirelessly).	 Please use the built-in apps to stream DMCA Content or connect your devices to the M8U using the proper cables / converters. Use a Smart TV Stick

4. IMAGE IS BLURRED

Possible Causes	Solution
The Projector is not in focus.	Adjust the focus with the focus adjustment buttons on the remote control until the image comes tons on the remote control until the image comes into focus, or use the focus adjustment buttons on the side of the projector
The Projector is offset from plane ⁄ angle of operation.	Move the projector so that it is both 180 degrees and on an evern plane with the screen or adjust the keystone through the remote under Settings Menu

5. NO SYNC, NO SIGNAL

- Be sure to setup the computer to enable a video signal output. On some laptops this is done by pressing and holding Function F5 key. If using the M8U as an external monitor on Windows based systems, this can be done by selecting "extend my desktop to this monitor".
- Depending on the video driver different resolutions may need to be selected for proper output.

Move the projector so that it is both 180 degrees and on an evern plane with the screen or adjust the keystone through the remote under Settings Menu

6. THE PROJECTOR DOES NOT TURN ON

Possible Causes	Solution
There is no power.	 Check to ensure the power outlet source is good. Check the power adapter to ensure a proper connection with the wall outlet as well as the projector. Use the included USBC to USBC Power Cable. Your aftermarket USBC cable may not supply enough power to the projector
Cannot power on the projector from the remote control.	To power on the projector, press the power button on the side of the projector. Next, if the projector is not powered on, press the Power button on the remote control.

7. NO PICTURE / FILE NOT SUPPORTED

Possible Causes	Solution
The video source is not properly connected or selected	Check the video source signal to ensure that it is properly connected. Select the current input source by choosing the input desired from the Inputs menu
Incorrect file extension / Video is encoded with incorrect codec	Please refer to "Specifications" page to see which file types and codec are supported. Verify that the file was encoded properly.

8. NO PROJECTION

Possible Causes	Solution
Object blocking eye safety sensor	Ensure nothing is blocking the eye safety sensors on the projector
Insufficient Power	Your USBC power adapter or USBC cable may not provide sufficient power to the projector. Use the included power adapter and USBC Power cable to ensure enough power is supplied to the projector.

Specifications

Brightness:	1100 Laser Lumens (Boost Mode)
Maximum Resolution:	3840x2160 (4K 30fps)
Native Resolution:	1920x1080 (1080p)
Contrast Ratio:	2000:1
Aspect Ratio:	16:9
Projection Lens:	Electric Focus
Image Size:	60~250 inches
Light Source:	30,000 Hour RGB Laser Light Source
Video in:	2x HDMI Ports (Compatible); 4K 30FPS, USB-C (Compatible)
File Play Back:	USB Memory Stick reader (up to 128GB), Micro SD/TF Card Reader (up to 128GB)
Audio Output:	4W High-Low Frequency Stereo Speaker, 3.5mm Stereo Headphone Jack,
	Optical Audio, Bluetooth 5.4
Operating System:	Android with App Store
Menu Language:	English, Spanish, French, German, Chinese, Italian, Korean, Japanese
USB:	Full Sized USB 2.0, Type C Compatible
Power Consumption:	50 Watts
Dimensions:	8.1in×4.8in×3in
Weight:	2.78lbs
Supported File Formats:	MP3 / WMA / OGG / WAV / AVI / MP4 / JPG / GIF
Wireless Mirroring:	Supports iOS, Android
Bluetooth Output:	5.4 Supported
Wireless (WiFi):	2.4GHz / 5GHz WiFi 6
Safety Systems:	Proximity Sensor with Toggleable Warning Message, Laser Light-source Interlock
Imager Technology:	Texas Instruments DLP



CAXC TECHNOLOGIES

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