

# M1

## Micro Projector



### USER MANUAL

**oaxa**  
TECHNOLOGIES

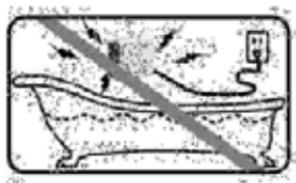
## WARNINGS

\*Do not operate the Projector in direct sunlight or near heat sources such as heaters, fires, and stoves as this may cause a fire hazard.



\*Do not operate the projector close to sources of steam or oil such as a humidifier as this may cause electric shock.

\*Do not operate the projector near water such as by the sink or bathtub as this may cause electric shock.



\*Do not block or restrict airflow from ventilation holes as this may cause the Projector to overheat.

\*Do not place inflammable materials beside the projector as this may cause a fire hazard.

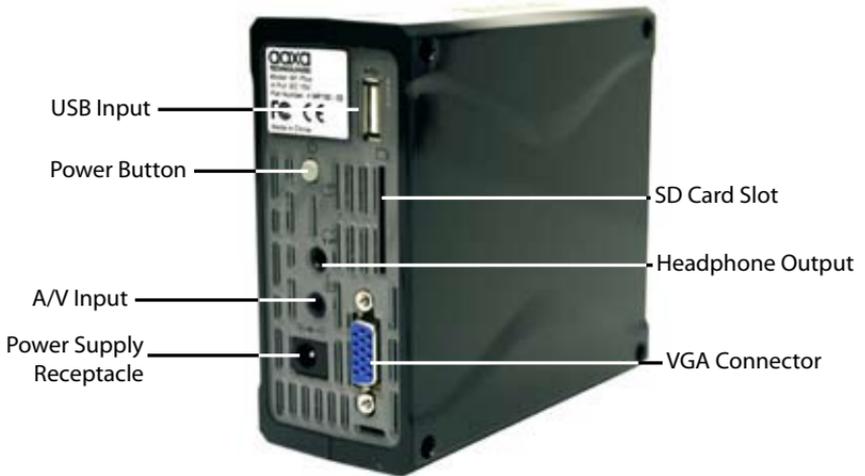


\*Do not drop the projector or allow heavy impacts or shock as this will damage the projector.

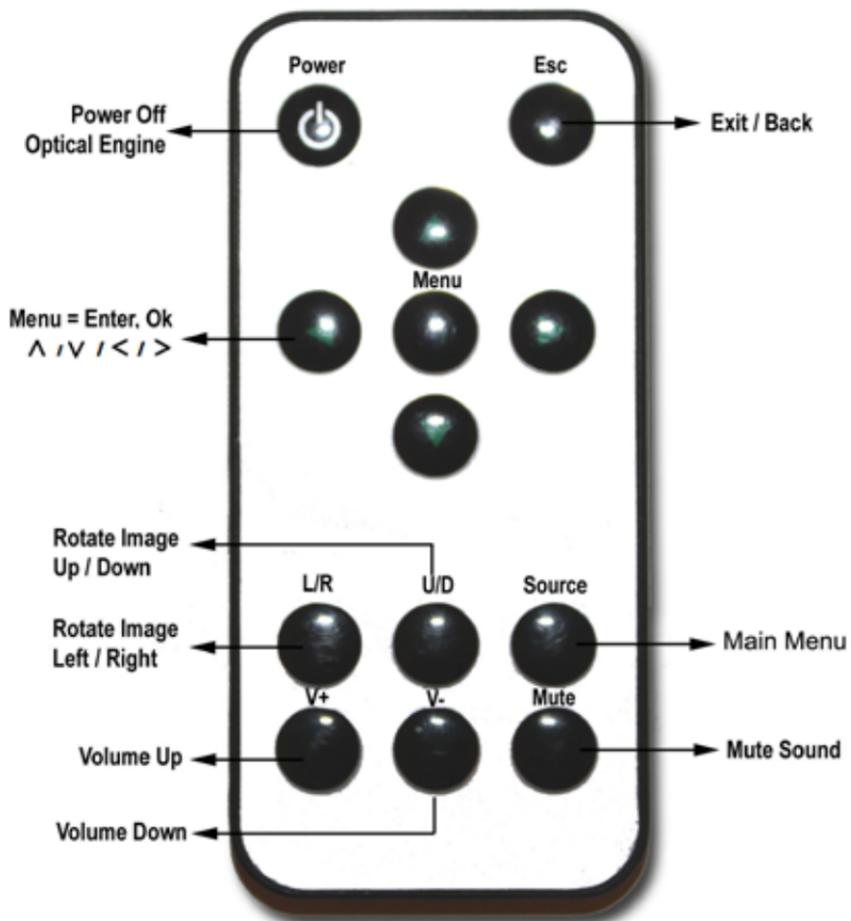
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# OVERVIEW



# REMOTE CONTROL FUNCTIONS



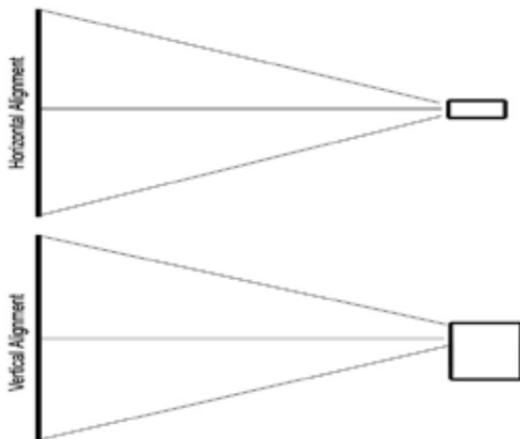


# GENERAL OPERATION



**Startup and Shutdown –**  
To startup, connect the power supply or external battery to the rear power receptacle. Press and hold the power button for 3 seconds until the welcome logo appears. To shutdown hold the power button for 3 seconds until optical engine turns off.

**Positioning –** Position the projector at an even plane and a right angle to the desired image. If the projector is not at a right angle or on an even plane the projected image will appear distorted.



**Focus Adjustment / Throw Distance** – The focus can be adjusted by turning the wheel located at the front of the projector. The Projector is capable of the following throw and focus distances:



Diagonal size (inch)	Diagonal size (mm)	Vertical size (mm)	Horizontal size (mm)	Throw distance (mm)
30	762	457	610	1250
40	1016	610	813	1666
50	1270	762	1016	2083
60	1524	914	1219	2499
70	1778	1067	1422	2916
80	2032	1219	1626	3332
90	2286	1372	1829	3749
100	2540	1524	2032	4166

## Connecting to a VGA / Computer input source –

The Projector can accept a 15-pin RGB input source from a laptop's external monitor port or graphics card. This source is connected through the 15-pin "VGA" port on the back of the projector.

To connect a VGA cable, plug the VGA cable into the back of the projector. Then select the "VGA PC" option in the Main Menu. This will enable the projector to receive VGA signals.



Important: Be sure to setup the computer to enable video signal output. On some laptops this is done by pressing and holding Function F5 key. If using the M1 as an external monitor on Windows based systems this can be done by selecting "extend my desktop to this monitor". **NOTE: Each computer system is different – please check with your owner's manual for how to properly output video signals. Some Apple computers may require a DVI to VGA adapter.**



### Accepted Display Resolutions:

800x600 (native /optimal)  
1024x720  
1280x800

## Connecting an Audio/Video input source

- The Projector can accept different A/V (Audio/Video) sources through the A/V port. These sources are connected through a 3.5mm A/V cable.



### MAXIMUM SUPPORTED RESOLUTIONS

NTSC: 720x480  
PAL: 720x576

To connect an A/V cable insert the 3.5mm portion into the A/V port of the projector. Then click on either the "A/V input" icon in the main menu, or press "source" on the remote control and select "A/V input". A blue screen will appear and the Projector will be ready to accept an A/V signal.



Possible A/V sources: Composite (included), Iphone / Ipod (optional), Zune (optional), Playstation Portable (optional), and others. Please check [www.aaxatech.com](http://www.aaxatech.com) or your AAXA dealer for optional A/V cables.

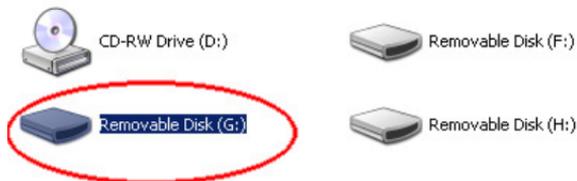


### ACCESSING THE ONBOARD MEMORY

The M1 Plus projector includes 1GB of onboard memory for storage. To access this memory connect a USB cable to the back of the projector. Then select the "USB Data" function in the main menu.



The computer should auto-detect the connected projector and its onboard memory as a "flash drive". Double-click the drive to open the drive contents and manipulate as a standard USB flash drive.



**NOTE:** If the computer fails to detect the flash drive, check to make sure the projector is in the USB-Data mode and do a search for new devices. If still unable to find the drive, please consult with your operating system's owner manual regarding detecting flash-drives.

## ONBOARD MEDIA PLAYER (OMP)

### OVERVIEW

The OMP plays and supports the following files Mpeg 4, Mpeg 3, AVI, Jpeg, TXT, Real Media (RMV / RM). For supported video formats please see the "specifications" section in this manual.



Pictures and videos can be accessed via an SD memory card or directly from the flash memory. To access files stored on the SD memory card first insert the SD memory card in the SD card slot located on the back of the Projector. Power on the projector and select "SD Card". The SD Card sub menu will appear.



## Loading Files into Flash Memory

Files can be copied into the projectors onboard 1GB flash memory through the USB file transfer mode. Enter the USB File transfer mode by selecting the “Storage” icon in the main menu. The projector will enter USB Storage mode. Connect one end of the USB cable to the Projector’s mini-USB port and the other end to the computer’s USB port. Your computer will detect the USB drive and a USB drive icon will appear on your computer. Drag files to the USB drive icon in order to copy files onto the flash memory.

**Viewing Photos** – To view photos click on the “Photos” icon submenu. This will display all photos available on the SD Card. Select and click on a photo to display photo in the slideshow mode. While in slideshow mode you can scroll through slides by pressing the left or right buttons on the remote control. By pressing the menu button on the remote control you will bring up the control menu. Control menu functions include: **Previous picture, Pause / Play, Next Picture, Stop / Exit, Zoom, Rotate, and Image Adjustment.**



**Image Adjustment** – The image adjustment menu allows the adjustment of Brightness, Contrast and Color. The adjustment is on a scale of 1-10. The Image Adjustment menu can be accessed only while playing videos and pictures in the menu bar





# SETTINGS MENU

The Settings Menu can be accessed by clicking on the “Settings” icon in the main menu.

**Slide Show Settings** – The slide show settings allows the user to change the speed, transition style, and display mode of the slide show. “Fit to screen” or “actual size” can also be selected. When “fit to screen” is selected, file sizes will be compressed or enlarged to the native resolution of the projector which is 800x600. Pictures may become distorted when compressed or enlarged. “Actual size” will display pictures in their actual resolution. For example a 400x300 picture will occupy approximately 25% of the area of an 800x600 picture.

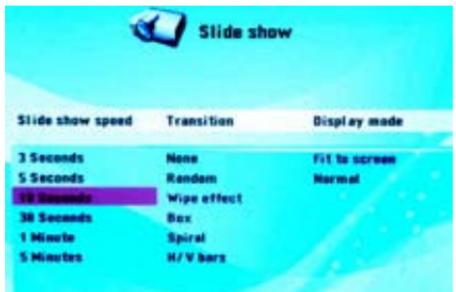
**Keystone Adjustment** – The Key Stone feature allows the user to adjust the image when the projector is not placed perpendicular to the horizontal centerline of the screen (too high or too low) to skew the output image, thereby making it rectangular. Only vertical keystone is available at this time. Use the “Left” and “Right” arrows on the remote to adjust the screen. NOTE: This is a software function and does not change the optical image.

**Language** – Supported languages include English, French, Spanish, German, and Italian

**Screen Saver** – The screen saver setting allows adjustment of the screen saver background. Choices include a moving logo or the slide show.

**About** – Projector information

**Default** – Reset to default settings



# TROUBLESHOOTING

## THE PROJECTOR DOES NOT TURN ON

Possible Causes	Solution
There is no power	Check to ensure the power outlet or battery source is good. Check the power adapter to ensure a proper connection with the wall outlet as well as the Projector.
The projector is in the shut-down cooling cycle	Wait until the Projector has fully cooled to restart

## NO PICTURE

Possible Causes	Solution
The video source is not properly connected	Check the video source signal to ensure that it is properly connected
The correct input source has not been selected	Select the correct input source by pressing the Source key on the remote.

## IMAGE IS BLURRED

Possible Causes	Solution
The Projector is not in focus	Adjust the focus with the focus adjustment dial until the image comes into focus
The Projector is offset from plane / angle of operation	Move the projector so that it is at both 180 degrees and on an even plane with the screen. Please see Page 9

## SD CARD IS NOT RECOGNIZED

Possible Causes	Solution
SD Card is not inserted properly	Re-insert SD Card
SD Card is damaged	Replace SD Card

## REMOTE CONTROL DOES NOT WORK

Possible Causes	Solution
The remote control battery is dead	Replace the battery with comparable CR2025 battery
The Projector is not receiving the infrared signal	Ensure there are no obstacles blocking the infrared signal to the Projector

# SPECIFICATIONS

## PROJECTION SYSTEM

Native Resolution:	SVGA (800x600)
Brightness:	66 ANSI-Lumens
Contrast Ratio:	1000:1
Noise:	<20 dBA
Projection Lens:	Manual Focus
Projection Image:	Available Size 9 ~ 100 inch
Lamp:	Single Chip White LED 15,000 Hours
Projection Angle:	33.6

## GENERAL SPECIFICATIONS

Audio Output:	Onboard Dual 1w speaker Stereo speaker/headphone mini-jack
Color:	Gloss Black
Supported Languages:	English, French, Spanish, German, Italian,
Aspect Ratio Control:	4:3
Dimensions:	112*105*46mm
Weight:	13.6oz
Power Consumption:	12V - 19V, 30 Watts
Power Supply:	AC100~240V(Free Voltage), 50Hz/60Hz
Supported Formats:	(See Below)
Conformances:	CE, UL

## INPUTS / OUTPUTS

Video In:	Composite A/V (3.5mm Jack)
PC / Laptop:	15 pin VGA (up to 1280x960)
Audio Out:	3.5mm Stereo Headphone Jack
USB:	Standard/Type-A
Control System	Infrared Remote Control

## STORAGE CAPACITY

Built in 1Gb flash memory + SD/TF card reader

## SUPPORTED FORMATS

AVI, RMVB, RM, VOB, DAT, MPG,  
MPEG, 3GP

## CODECS SUPPORTED

\*RV: RealVideo-3, RealVideo-4  
\*MPEG2/1  
\*MP3:  
\*RA: Cooker/AAC  
\*LC AAC, HE AAC, MP2, PCM, AC3  
\*AVI (MJPEG + MP3/LC AAC/HE  
AAC/MP2/PCM/AC3)  
\*MOV (MJPEG + MP3/LC AAC/HE  
AAC/MP2/PCM/AC3) Max. bit-rate: 4 Mbps  
\*RMVB/RM (RV + RA) Max. bit-rate: 2 Mbps  
\*VOB(MPEG2+AC3/MP2)  
\*DAT(MPEG1+AC3/MP2)  
Max. bit-rate: 6 Mbps  
\*MPG/MPEG(MPEG2/1+AC3/MP2)  
Max. bit-rate: 4 Mbps  
\*3GP(MP3/LC AAC/HE  
AAC/MP2/AC3) Max. bit-rate: 4 Mbps

## MAXIMUM RESOLUTIONS

\*AVI, 3GP,  
720\*480@30fps, Max. bit-rate 2 Mbps  
1280\*720@30fps, Max. bit-rate 4 Mbps  
\*RMVB/RM  
720\*480@30fps, Max. bit-rate 500 Kbps  
1280\*720@30fps, Max. bit-rate 800 Kbps  
\*VOB, DAT, MPG/MPEG, MOV  
720\*480@30fps