Thank you for purchasing the revolutionary AAXA L1 Laser Projector - the world's first laser powered pico projector with an internal media player and storage. The unique three-color laser light source enables the L1 to produce images with amazing color saturation that are always in focus. Designed for mobile professionals and entertainment, the AAXA L1 pocket projector combines a revolutionary laser light source, proprietary despeckling technology, and a LCoS imager to achieve 20 lumen output at 800x600 resolution with low power consumption. The flexibility offered by the L1 laser light source opens up a new world of possibilities in projection applications. The focus-free operation allows for rapid changes in projection size, angled projection, and projection on curved and other non-flat surfaces. With its ultra-efficient optical engine, the L1 can produce rich images even in less-than-dark environments. When used in darker environments the L1 can produce spectacular images up to 80’.

WARNING: LASER LIGHT SOURCE

CLASS 1 LASER

DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS
Caution Instructions for proper use

WARNING: Please use this product as instructed. Misuse may cause injury or death.

- **DO NOT use while driving**
- **DO NOT expose to water or wet surfaces. Electric shock may occur**
- **DO NOT expose the laser to your eyes or the eyes of others**
- Keep the projector, battery, or charger away from any heat sources

Caution for Battery Use
- Do not pierce or puncture the battery with sharp objects
- Do not heat the product or expose it to high temperature.
- Do not wet it or place it in any liquid.

Caution for Earphone (Earplug) Use
- Prolonged use at high volume may impair your hearing.
- High volume during walking or driving may cause distractions and result in injury or death

As the projector has a laser source, it requires a short period of time to produce an optimal image after start-up.
ATTENTION: Please use this product as instructed. Mishandling may cause physical injuries.

Avoid dropping the projector -
this may cause damage

Do not disassemble the projector -
This will void the warranty

Avoid dusty or moist environments -
This may cause a short circuit or electric shock
Features

The Laser Projector
The unique three-color laser light source enables the L1 to produce images with amazing color saturation that are always in focus.

20 Lumen/ SVGA HD AV
Native 800x600 resolution
Bright 20 lumen output means images of up to 80’ can be projected

Built-in media player and flash memory
Win CE based media player capable of decoding of video, audio, images, and document. Onboard memory and USB port capable of reading files off a standard USB thumb drive (included).

File-Reading through USB port
USB Host function supported.
Files from an external memory can be read through USB port and then be projected.

Small form-factor and long battery life
Less than 7.5 CBI in size, 170 grams and 1.5 hour battery life.

VGA and composite video input
VGA (D-sub) connection is supported along with composite video input with included cables.
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Accessories List

- AV Cable
- PC Cable
- Bracket
- Charger
- User Guide

* Under various circumstances, the actual accessories may be different from those shown in the pictures above.
Components

- Projecting Lens
- Speaker
- Keypad
- Charge Indicator
- External USB Memory (PC)
- Headphone Jack
- External Port (VGA, RCA, S-VIDEO Connection)
- Charger Port
- Reset

※ The L1 Projector can accept up to 16GB of USB flash memory
※ The L1 Projector can accept up to 32GB of FAT32 USB hard disk
# Keypad Functions

<table>
<thead>
<tr>
<th>Keypad</th>
<th>Description</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="ON/OFF" /></td>
<td><strong>Power</strong></td>
<td>Projector On / Off</td>
</tr>
<tr>
<td><img src="image2.png" alt="ON/OFF" /></td>
<td><strong>Projector</strong></td>
<td>Rotate / Flip image (upside down / mirror, etc.)</td>
</tr>
<tr>
<td><img src="image3.png" alt="MENU" /></td>
<td><strong>Menu</strong></td>
<td>Menu System</td>
</tr>
<tr>
<td><img src="image4.png" alt="CANCEL" /></td>
<td><strong>Cancel</strong></td>
<td>Back / Return to main menu</td>
</tr>
<tr>
<td><img src="image5.png" alt="OK" /></td>
<td><strong>OK</strong></td>
<td>Execute / Select / Pause</td>
</tr>
<tr>
<td><img src="image6.png" alt="Up/down" /></td>
<td><strong>Up/down</strong></td>
<td>Navigate up/down / Volume Adjustment</td>
</tr>
<tr>
<td><img src="image7.png" alt="Left/right" /></td>
<td><strong>Left/Right</strong></td>
<td>Navigate left / right, FFWD / RWDN</td>
</tr>
</tbody>
</table>

8
Instruction for Battery Charging

- Connect the charger to the power and the DC IN port
- The LED turns red while charging.
- The LED turns green when charging is finished.

Switch on

Press POWER button and hold for 2-3 seconds to switch on or switch off the power.
Projection Screen Adjustment

- The L1 Pico Projector does not need to be focused - the image is always in focus
- The recommended throw distance is 12 to 84" which will produce a 10" to 70" diagonal respectively.
- Use the image rotation tool to project sideways, upside down, etc.

<table>
<thead>
<tr>
<th>Image Rotation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Press the image rotation button to rotate the projected image</td>
</tr>
</tbody>
</table>

Throw Distance Chart

<table>
<thead>
<tr>
<th>DISTANCE Inch (&quot;)</th>
<th>DIAGONAL Inch (&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>24</td>
<td>20</td>
</tr>
<tr>
<td>30</td>
<td>25</td>
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<td>36</td>
<td>30</td>
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<tr>
<td>48</td>
<td>40</td>
</tr>
<tr>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>72</td>
<td>60</td>
</tr>
<tr>
<td>84</td>
<td>70</td>
</tr>
</tbody>
</table>

DIAGONAL SCREEN SIZE

4:3 Aspect Ratio
Main Menu

- Image Viewer
- External Video Input
- Video Player
- Setup Menu
- MP3 Player
- Document Browser
Accessing USB Memory Stick data

The L1 projector can access data stored on a USB memory stick
For supported file types please see the Specifications Page
To use:
- Connect the USB memory or the portable hard disk to the projector
- Select either Movie, Music, Photo, or Document modes. Enter the submenu - you will see /NAND flash or USB Disk as a submenu
- Choose the USB folder.

※ When the attached USB memory is not recognized, make sure the USB is set as "Host" in the setting menu.
Document Viewer

1. Open Documents in the file menu
2. Switch to full-screen mode
3. Go to previous page
4. Go to next page
5. Scroll Left / Right within document
6. Scroll Up / Down within document
7. Zoom Out
8. Zoom In
9. Rotate Image

Press "MENU" to access

Note: Holding the "OK" button will toggle to full screen
Document Viewer (cont)

*Press left, right, up, down to browse between pages
*Press “OK” to zoom in the full-screen mode
*Use the left, right, up, down buttons to scroll through the document when zoomed in
*Press the ”MENU” button to zoom back out
*Press the “CANCEL” button to return to the document sub-menu

NOTE: Some pages may take some time to load – this is normal
Video Player Menu

1. Rewind / Back
2. Stop
3. Fast-Forward / Next
4. Full-Screen Mode
5. Volume Low
6. Volume High

Press “MENU” to access
Video Player (Full Screen Mode)
Image Viewer Menu

1. Previous
2. Full Screen
3. Next
4. 90° Rotation
5. Slide Show
6. Thumbnail Preview

Press “Menu” to access
Image Viewer  Full Screen/Slide Show
Image Viewer  Thumbnail Preview
MP3 Player Menu

File Selection Menu

1. Play/Pause
2. Previous
3. Stop
4. Next
5. Single Repetition
6. Shuffle
7. Mute
8. Volume Down
9. Volume Up

NORMAL: Use this lean to change the music setting (sound equalizer) from NORMAL, JAZZ, POP, ROCK

A:B: Repeat select portion of songs
   Press "OK" once to set starting point
   Press "OK" again to set end point
   Press "OK" a third time to end repetition

X1: Change the play-back speed from X1, X2, X4, X1/2, X1/4
Video Input - PC Connection

The L1 projector can be connected to a PC or VGA output device through the 15-pin Dsub connector.

Connection Procedure:
* Access the External Input Menu on the projector
* Select PC / Laptop (Analog RGB)
* Set your computer’s output to 800x600 (do this first)
* Connect the monitor cable to the projector and the computer
* The projector will autodetect the RGB signal
* NOTE: If the screen is distorted adjust your computer’s output resolution to 800x600 then disconnect and reconnect the cable
Video Input - AV Input Devices

The L1 projector can be connected to all composite video devices (TV, cell phone, MP4 players, iPod/iPhone, DVD players, digital video cameras, game consoles, etc.) with the composite AV cable.

Connection Procedure:
* Access the External Input Menu on the projector
* Select TV-out (RCA)
* Connect the AV cable to the projector and the video source
* The projector will autodetect the composite signal
Video Input - S Video

The L1 projector can accept S-video input sources

Connection Procedure:
* Access the External Input Menu of the projector
* Select S-video
* Connect the video source to the projector using the S-video AV cable
Setup Menu
Connecting to a Computer (data transfer)

*The onboard memory of the L1 projector can be accessed via a PC or Windows based computer (Connecting to an Apple computer is not recommended)

*To connect to a computer first set the projector in "Slave Mode" through the Setup Menu

*Connect one end of the USB cable to the projector and the other end to the computer

*Plug the cable into the USB port of the computer and access the drive through the "My Computer" window
## Supported File Types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
</table>
| **music** | Audio files: MP3, MP2, WAV, OGG  
Audio coder: MP3, MP2, WAV, OGG  
Sound channel: mono (when the loudspeaker is in use), stereo (when earphone is in use)  
Responding frequency: 20Hz-20kHz  
Equalizer: 51 bands (Classic, Pop, Jazz, Rock, Normal)  
Build-in speaker: 1W |
| **video** | Video files: AVI, ASF, WMV, MPG MPEG  
Video coder: Divx3/4/5, Xvid, MPEG-4SP  
Audio coder: AAC, AC3, WAV, MP2, OGG, WMA, MP3  
Resolution: 720x576, 320x240 (WMV)  
Frame rate: 30fps at most  
Subtitle file: SRT |
| **Photo** | BMP, JPG, PNG, GIF |
| **Document** | MS Word (doc, docx) / 97-2007  
MS PowerPoint (ppt, pptx) : 97-2007  
MS Excel (xls, xlsx) : 95-2007  
Adobe PDF (pdf) : 1.2-1.7 |

**Note:** Only english file names are supported
## Specifications and Features

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Machine Name</strong></td>
<td>L1 Laser Projector</td>
</tr>
<tr>
<td><strong>Brightness / Resolution</strong></td>
<td>20 Lumens / 800 x 600 (SVGA)</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>54mm x 107mm x 21mm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>170g</td>
</tr>
<tr>
<td><strong>Capacity of the Built-in Memory</strong></td>
<td>160 MB</td>
</tr>
</tbody>
</table>