



aaxa
TECHNOLOGIES

LASER PICO PROJECTOR

USER MANUAL



Thank you for purchasing the revolutionary AAXA L1 Laser Projector - the worlds 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 50".

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 HDAV

Native 800x600 resolution
Bright 20 lumen output means
images of up to 50" 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.

Contents

BASIC USE

Accessories / Packing List	Pg	06
Components Diagram	Pg	07
Keypad Functions	Pg	08
Charging the Battery	Pg	09
Projection Screen Adjustment	Pg	10

ONBOARD PLAYER FUNCTIONS

Main Menu	Pg	11
Connecting USB Memory Stick	Pg	12
Document Viewer	Pg	13-14
Video Player	Pg	15-16
Image / Picture Viewer	Pg	17-19
MP3 Player	Pg	20

EXTERNAL VIDEO INPUT

VGA / PC Connection	Pg	21
AV Composite Input	Pg	22
S-Video Input	Pg	23
SETUP MENU	Pg	24
DATA CONNECTION TO A COMPUTER	Pg	25
SUPPORTED FILE TYPES	Pg	26
SPECIFICATIONS & FEATURES	Pg	27

Accessories List



AV Cable



PC Cable



Bracket



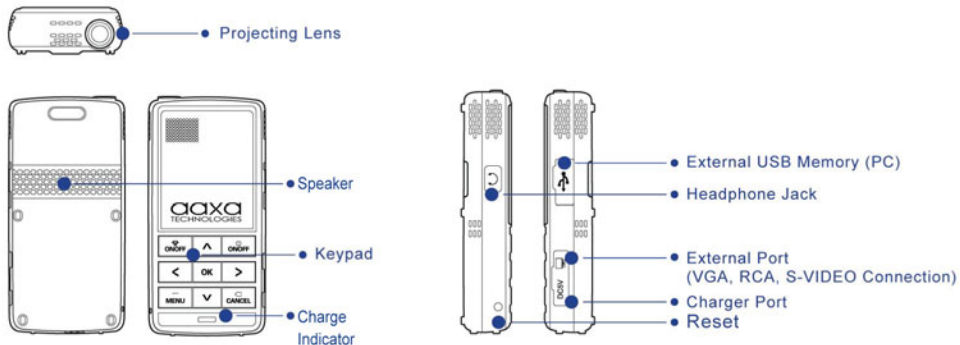
Charger



User Guide





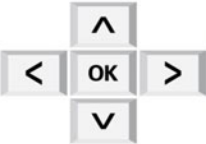
※ Under various circumstances, the actual accessories may be different from those shown in the pictures above.

Components



- ※ The L1 Projector can accept up to 16GB of USB flash memory
- ※ The L1 Projector can accept up to 30GB of FAT32 USB hard disk

Keypad Functions

Keypad	Description	Function
	Power	Projector On / Off
	Projector	Rotate / Flip image (upside down / mirror, etc.)
	Menu	Menu System
	Cancel	Back / Return to main menu
	OK	Execute / Select Pause
	Up/down	Navigate up/down Volume Adjustment
	Left/right	Navigate left / right, FFWD / RWND

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 recommend 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.

Image Rotation

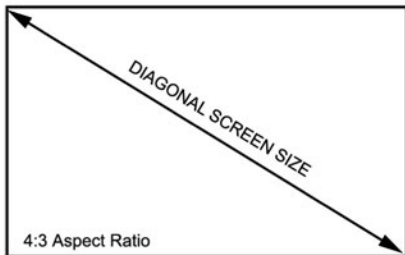
- Press the image rotation button to rotate the projected image

Image Rotate
Button



Throw Distance Chart

DISTANCE Inch (")	DIAGONAL Inch (")
12	10
18	15
24	20
30	25
36	30
48	40
60	50
72	60
84	70



Main Menu



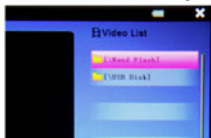
Accessing USB Memory Stick data

The L1 projector can access data stored on a USB memory stick

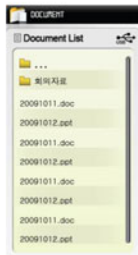
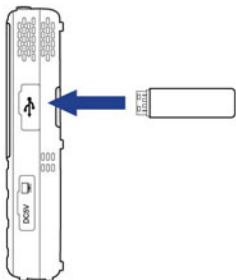
For supported file types please see the Specifications Page

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.



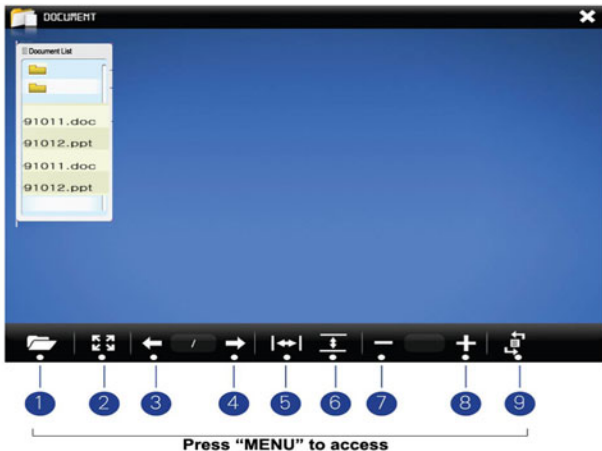
※ When the attached USB memory is not recognized, make sure the USB is set as "Host" in the setting menu.



Document Viewer

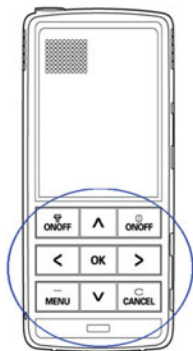


1. Open Documents in the file menu
2. Switch to full-screen mode
3. Go to previous page
4. Go to next page
5. Scroll Left / Right within document
6. Scroll Up / Down within document
7. Zoom Out
8. Zoom In
9. Rotate Image



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

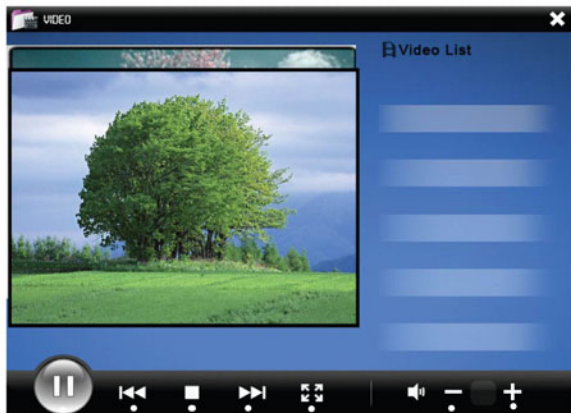
*Use the left, right, up, down buttons to scroll through the document when zoomed in

*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

2

3

4

5

6

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)

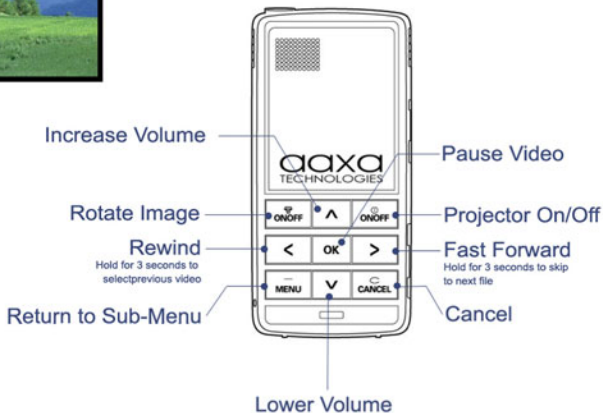
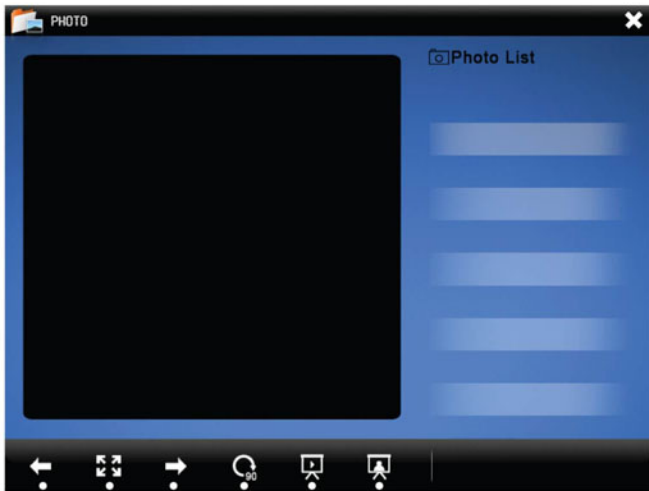


Image Viewer Menu



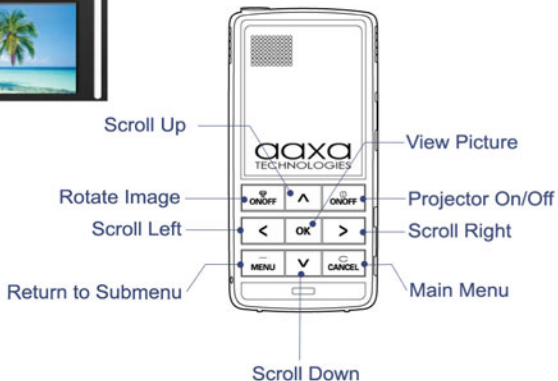
1. Previous
2. Full Screen
3. Next
4. 90° Rotation
5. Slide Show
6. Thumbnail Preview

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



Press "MENU" to access

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

A B: Repeat select portions 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, 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



Volume

Language
(English / Chinese)

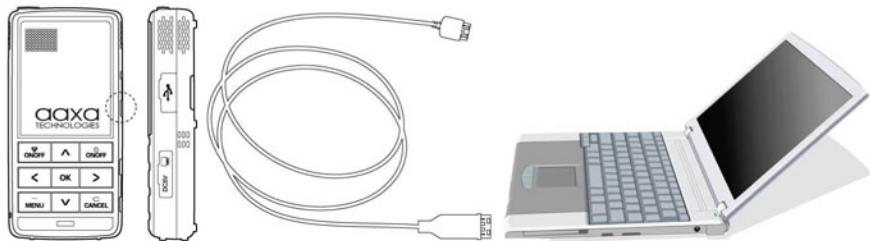
Menu Sound Effects

USB Setting
Host - Flash drives
Slave - Computer Connection

Restore Factory Default Settings **Software Update**
(requires firmware)

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

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: 5Bands (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: 720×576, 320×240 (WMV) Frame rate: 30fps at most Subtitle file: SMI
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

Machine Name	L1 Laser Projector
Brighness / Resolution	20 Lumens / 800 x 600 (SVGA)
Size	54mmx107mmx21mm
Weight	170g
Capacity of the Built-in Memory	160 MB