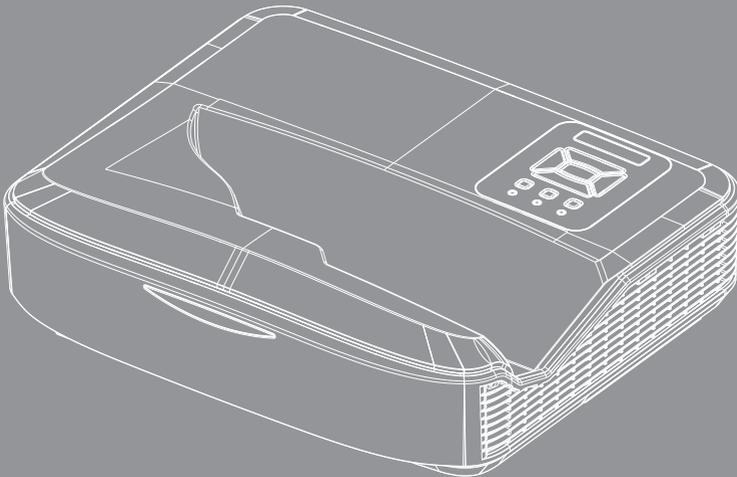




DLP® Projector

User Manual Multi-Media



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Introduction

The media support formats are as below tables,

Photo Format

Image Type (Ext Name)	Sub Type	Encode Type	Max Size
Jpeg / Jpg	Baseline	YUV420	4000x4000=16,000,000 pixel
		YUV422	
		YUV440	
		YUV444	
	Progressive	YUV420	4000x4000=16,000,000 pixel
		YUV422	
		YUV440	
		YUV444	
BMP			4000x4000=16,000,000 pixel

Video Format

File Format	Video Format	Decode Max res.	Max Bit Rate (bps)	Audio Format	Profile
MPG, MPEG	MPEG1	1920x1080 30fps	30M bps	MPEG1 L1-3	
AVI, MOV, MP4, MKV	H.264	1920x1080 30fps	30M bps	MPEG1 L1-3 HE-ACC v1 AC3	BP/MP/HP
AVI, MOV, MP4,	MPEG4	1920x1080 30fps	30M bps	HE-ACC v1	SP/ASP
AVI, MOV, MP4,	Xivd	1920x1080 30fps	30M bps	MPEG1 L1-3 HE-ACC v1	HD
AVI	MJPEG	8192x8192 30fps	30Mbps	MPEG1 L1-3 HE-ACC v1	Baseline
WMV	VC-1	1920x1080 30fps	30M bps	WMA8/9(V1/v2)	SP/MP/AP

Introduction

Audio Format

Music Type (Ext Name)	Sample Rate (KHz)	Bit Rate (Kbps)
MP3	8-48	8-320
WMA	22-48	5-320
ADPCM-WAV(WAV)	8-48	32-384
PCM-WAV(WAV)	8-48	128-1536
AAC	8-48	8-256

Office Viewer Format

File Format	Support Version	Page/Lines Limitation	Size Limitation
Adobe PDF	PDF 1.0, 1.1, 1.2, 1.3, 1.4	Up to 1000 pages (One File)	Up to 75MB
MS Word	British Word 95,	Because office viewer does not load all pages of MS/ Word file at the same time, there are not obvious limitations of page and line.	Up to 100MB
	Word 97, 2000, 2002, 2003		
	Word 2007(.docx),		
	Word2010(.docx),		
MS Excel	British Excel 95	Row Limit: up to 595	Up to 15MB
	Excel 97, 2000, 2002, 2003	Column Limit: up to 256	
	Excel 2007(.xlsx), Excel 2010(.xlsx)	Sheet: up to 100	
	Office XP Excel	Note: Any of the three limitations above can not appear on one excel file simultaneously.	
MS PowerPoint	British PowerPoint 97	Up to 1000 pages (One File)	Up to 19MB
	PowerPoint 2000, 2002, 2003		
	PowerPoint 2007(.pptx)		
	PowerPoint 2010(.pptx)		
	Office XP PowerPoint		
	PowerPoint presentation 2003 and earlier (.ppx)		
	PowerPoint presentation 2007 and 2010 (.ppsx)		

Introduction



- ❖ Animations are not supported when viewing MS PowerPoint files.
- ❖ When projecting files, some documents may not be displayed the same as shown on the screen of a PC.

Support Language of File Viewer

Office viewer is Pictel solution, it supports 40 languages.

1	Česky	11	Polski	21	عربي	31	Latviešu valoda
2	Dansk	12	Português ibérico	22	Shqiptar	32	Lietuvių
3	Nederlands	13	Русский	23	Português Brasileiro	33	Македонски
4	English	14	Español	24	Български	34	Nynorsk
5	Français	15	Svenska	25	Hrvatski	35	Română
6	Deutsch	16	ไทย	26	Eesti	36	Español latino
7	Magyar	17	Türkçe	27	Suomi	37	Slovenskej
8	Italiano	18	Việt	28	Ελληνικά	38	Indonesia
9	日本語	19	繁體中文	29	Slovenščina	39	Kiswahili
10	한국어	20	简体中文	30	Srpski	40	עברית

Installation

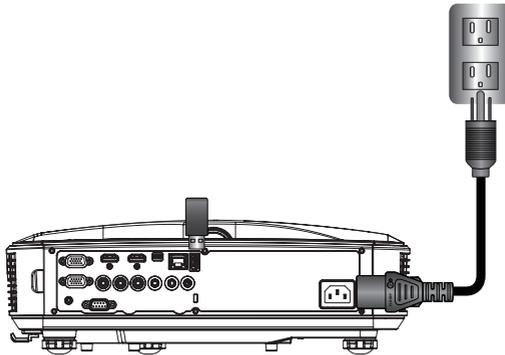
How to set-up File Type for Multi-Media with USB



- ❖ A USB flash disk must be plugged into the projector if you want to use the multimedia USB function.
- ❖ Please don't connect USB port for camera since it would be exist compatibility problem.

Follow these steps to playback the Photo, Video, or Music files on your projector:

1. Connect the power cable and turn on the projector by pressing the Power button.
2. Plug in a **USB flash disk** to your projector.



The Multi-Media menu opens.

3. Select the **USB** menu.

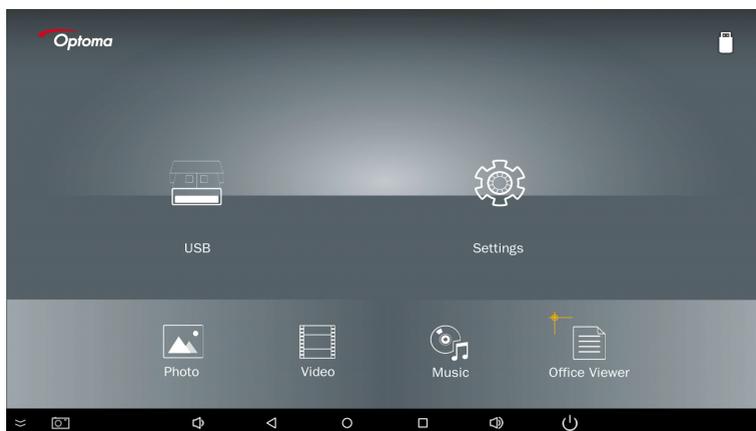


Installation

4. Press ↓ from the **USB** item and select the multimedia files by ← and →: **Photo, Video, Music or Office file**. Or select the **Settings** option to change settings for **System, Photo, Video, or Music**.



Installation



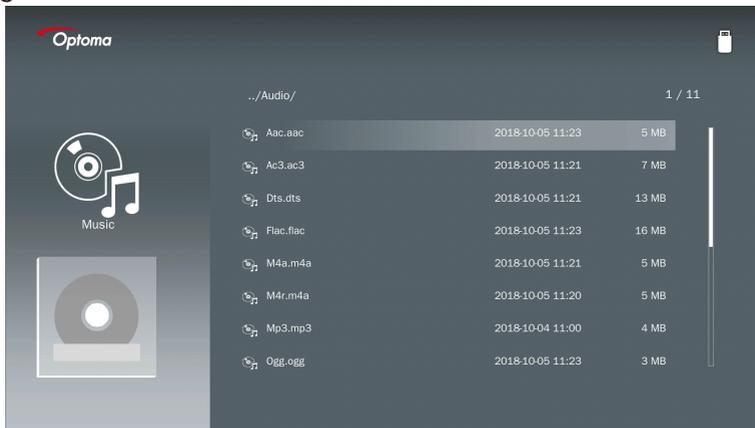
Installation

5. Select the file type you want to open, below are the page of different files, photo, video, music and office documents.

PHOTO



MUSIC

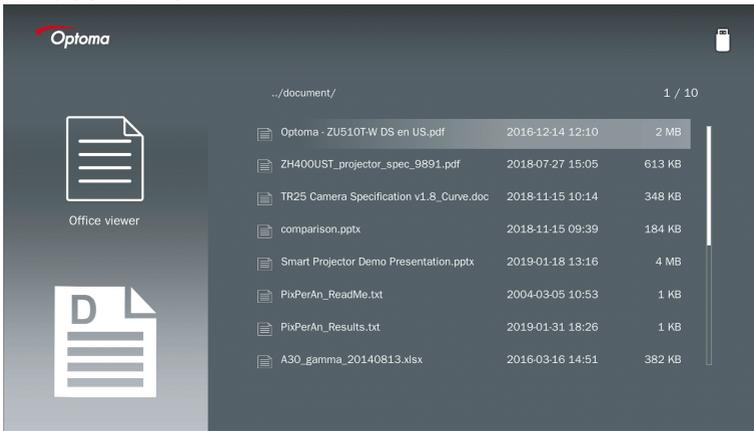


Installation

VIDEO



OFFICE DOCUMENTS



The maximum allowed file name length is 28 characters.

Multi-Media Main Menu

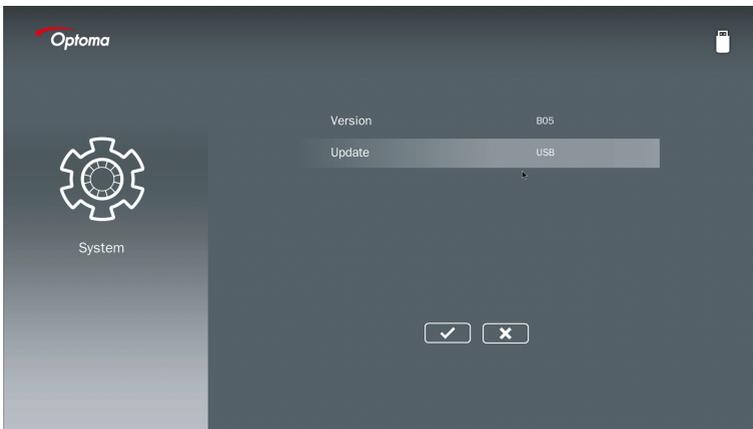
The multi-media settings menu allows you to change settings for System, Photo, Video, and Music.



Multi-media setup menu and set are the same for the USB, MicroSD, and Internal Memory.

System Settings

Access the system settings menu. The system settings menu provides the following options:



Installation

Version

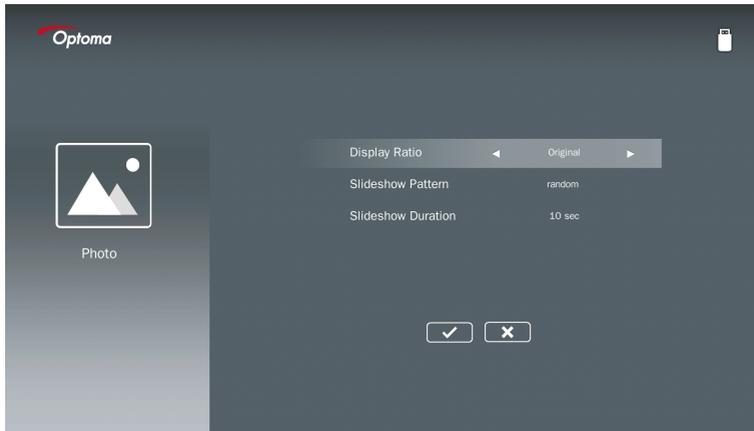
View the current MMA firmware.

Update

Update the MMA firmware only from the **USB** stick.

Photo Settings

Access the photo settings menu. The photo settings menu provides the following options:



Display Ratio

Select the display ratio of the photo as **Original** or **Full Screen**.

Slideshow Pattern

Select what slideshow effect you want. Options are: **Random, Ring Diffusion, Middle Enlarge, Expand Blink, Window Shades, Linear Interaction, Cross Interleaved, Banding Alternate, Rectangle Enlarge**.

Slideshow Duration

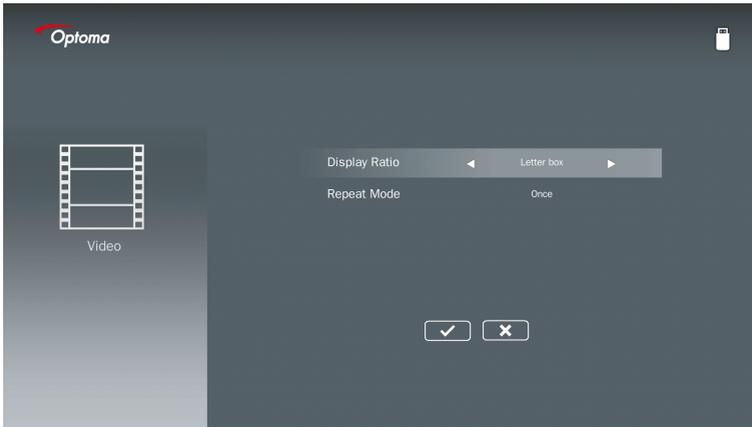
Select the slideshow duration. The image will automatically switch to the next photo after the time out. Options are: **10 sec, 30 sec, 1 min**.



Slideshow Duration, and Slideshow Pattern function only support Slideshow mode.

Video Setup

Access the video settings menu. The video setting menu provides the following option:



Display Ratio

Select the display ratio of the Video.

Letter box: If the video source does not fit a 16:9 screen then the video image is stretched equally in the horizontal and vertical directions to fit the screen. Therefore parts of the video are cropped at the top and bottom (left and right) sides and appear as “black bars” around the video.

Cut screen: Choose to display the video in its native resolution without scaling. If the projected image exceeds the screen size then it will be cropped.

Full screen: Regardless the native aspect ratio, the video image is stretched non-linearly in the horizontal and vertical directions to exactly fit the 16:9 screen. You will not see the “black bars” around the video image but the proportions of the original content may be distorted.

Original screen: Choose to display the video image in its native resolution without scaling. If the video resolution is lower than 1920x1080 then you will see “black bars” around the edges of the video image. If the resolution is higher than 1280x800 then the video is displayed in 1920x1080 resolution.

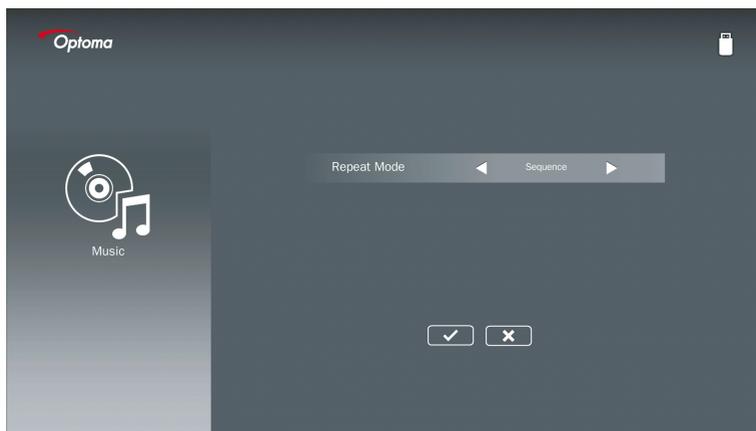
Repeat Mode

Select the video repeat mode. Options are: **Sequence, Single, Random, Once.**

Installation

Music Setup

Access the music settings menu. The music settings menu provides the following option:



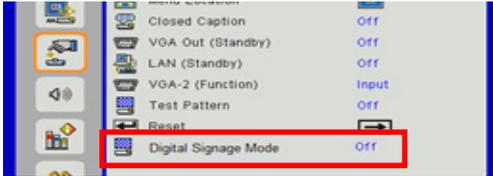
Repeat Mode

Select the music play mode. Options are: **Sequence**, **Single**, **Random**.

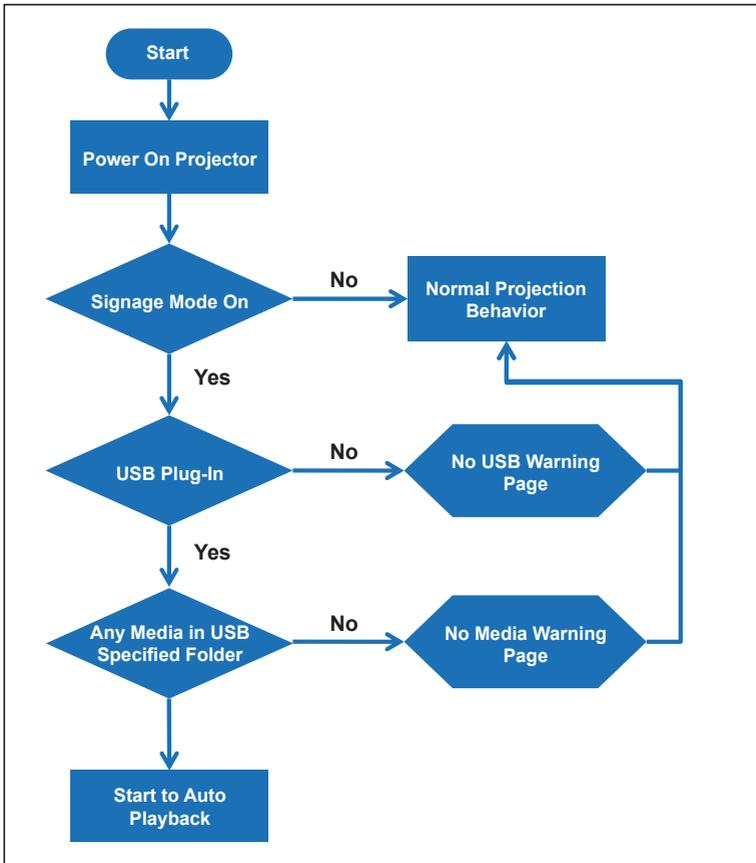
Signage Mode

Behavior

When the Signage Mode is enabled via OSD as below, the Signage procedure is following below procedure.



Processing Flow:



Signage Mode

Rules

The rules of Auto Play are as below list

If the first 2 characters of filename are 00~99, the play sequence will start from 00,01,02 until 99.

If there are two files named "00", the play order will start from the Media file stored in the USB Stick (but the reboot sequence is unchanged). If it is difficult to define the playback sequence, please change the filename (other than "00").

If the first two characters of the file name are not numbers (other characters), no sorting is performed. The order of the files will start from the Media file stored in the USB Stick. If it is difficult to define the play sequence, please change the filename that begins with the number 00~99.

In addition, if the USB Stick has a combination files of music, photos, and videos, the playback method is as follows:

1. Build the folder named "Signage" at root directory in USB stick.
2. If there is a video in the file, Signage will only play the video file.
3. If there are photos in the file, Signage will only play photo files.
4. If there are photos and music in the file, Signage will play photo files and play music in the background.

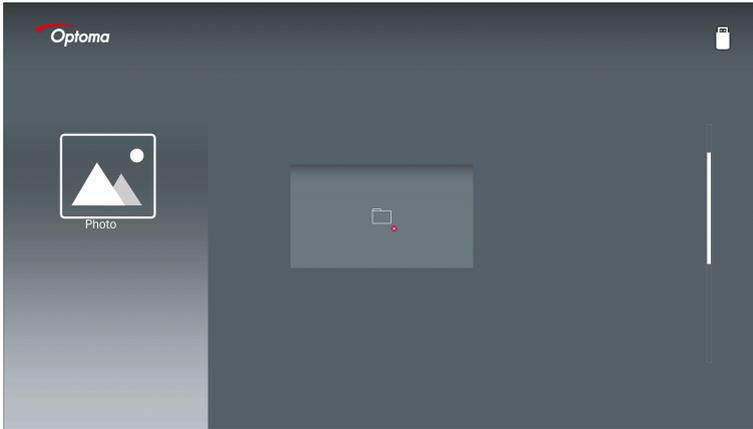
The play sequence is also depending on the file sorting method.

Auto-disable playback info

Due to avoid redundant information for signage application, the system will auto disable "playback info window" (pause/start/next/previous/progress bar...) during signage mode.

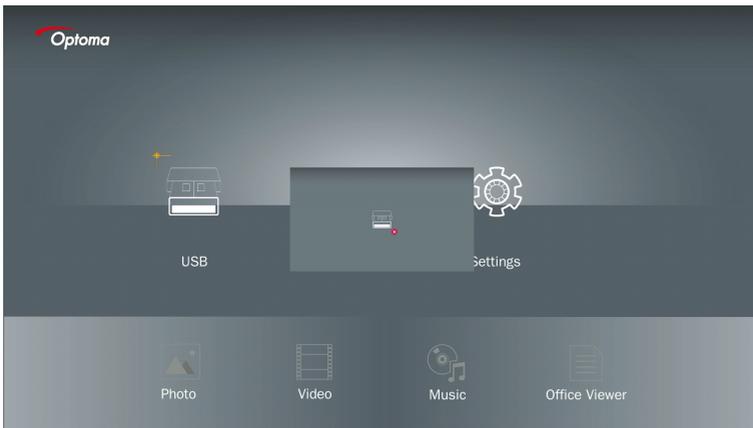
USB No Valid File

When the USB Stick is no valid file at the file type user choosed, the system will show below page, for example, the USB stick is no photo file.



No USB at Signage Mode

When no USB Stick plug in projector at Signage mode Enable, the warning page would be show as below,

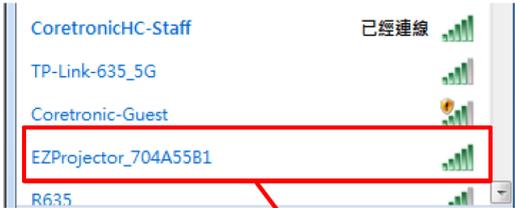


Wireless Display

Wireless Connection of Windows

Follow these steps to mirror the screen of your portable device:

1. Plug in WiFi Dongle.
2. Select Source to Network Display and Connect EZProjector_ID via WiFi

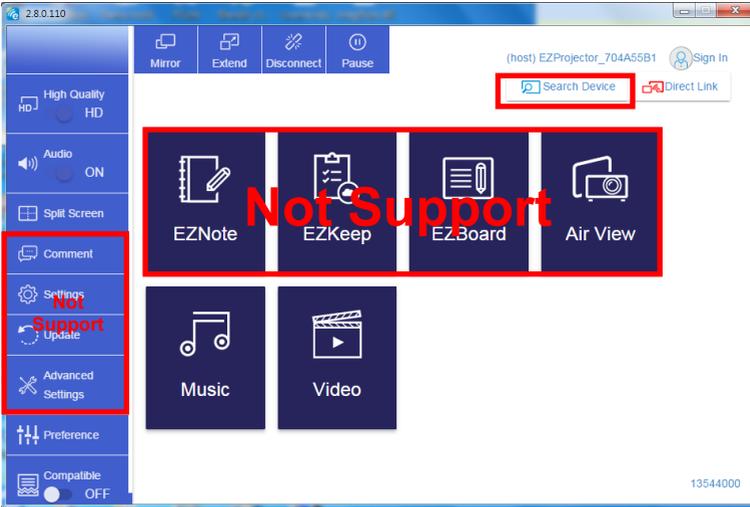


3. Open EZCastPro Software.



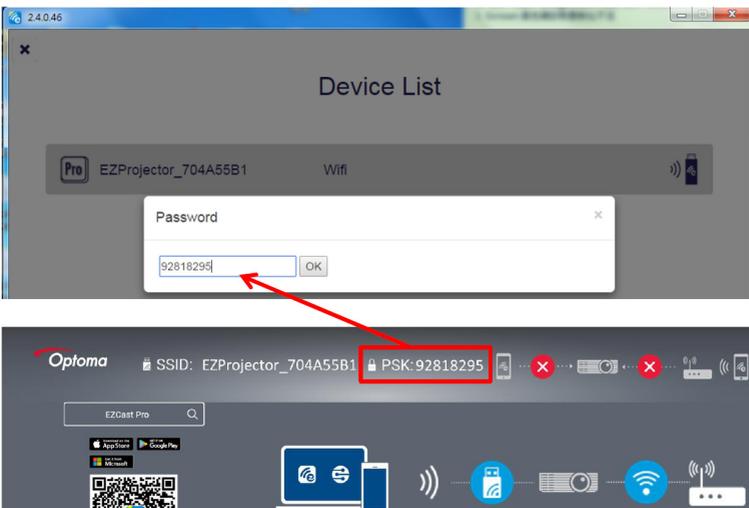
Wireless Display

4. Click Search Device

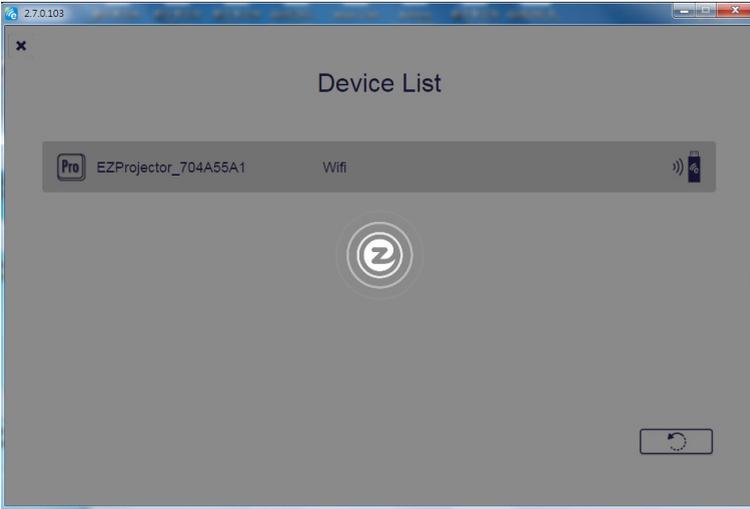


Red frame marking section is currently not supported.

5. Enter Password

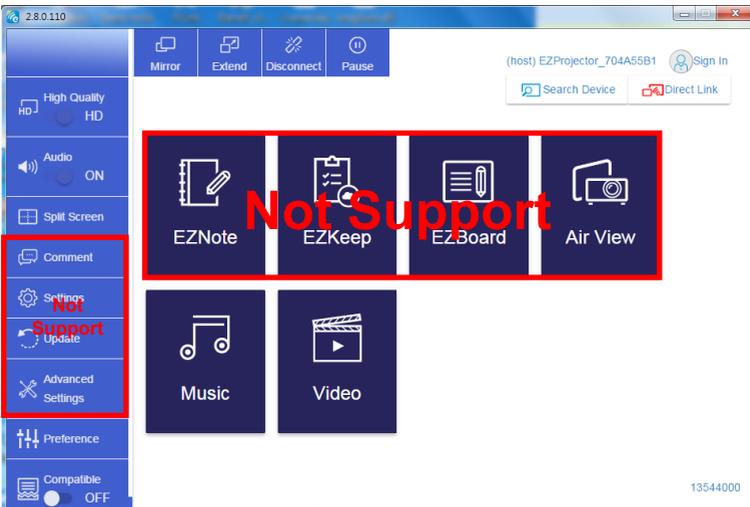


Wireless Display



Wireless Display of Windows System

Windows AP page is as below,



Red frame marking section is currently not supported.

Wireless Display

*Do one of the following:

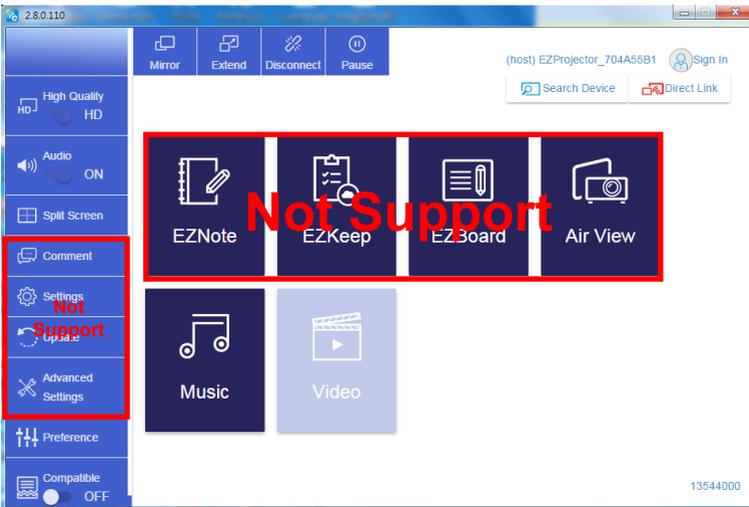
- Depending on the operating system of your mobile device, open the App Store (iOS) or Google Play (Android) and install the EZCast Pro app on your mobile device.
- Scan the QR code on the EZCast Pro menu with your mobile device and then follow the on-screen instructions to install the EZCast Pro app.

Desktop Wireless Display



- Mirror: Duplicate the display
- Extend: Extend the display
- Disconnect: Disconnect the Wireless Display
- Pause: Pause the Wireless Display Image

Video

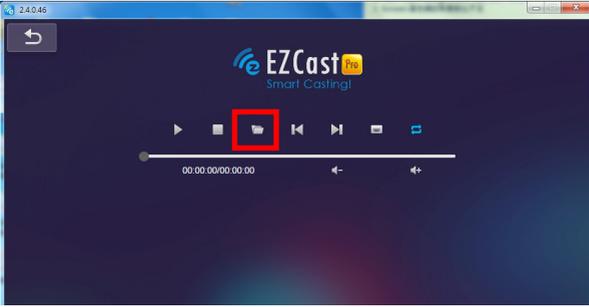


Select the video file to play

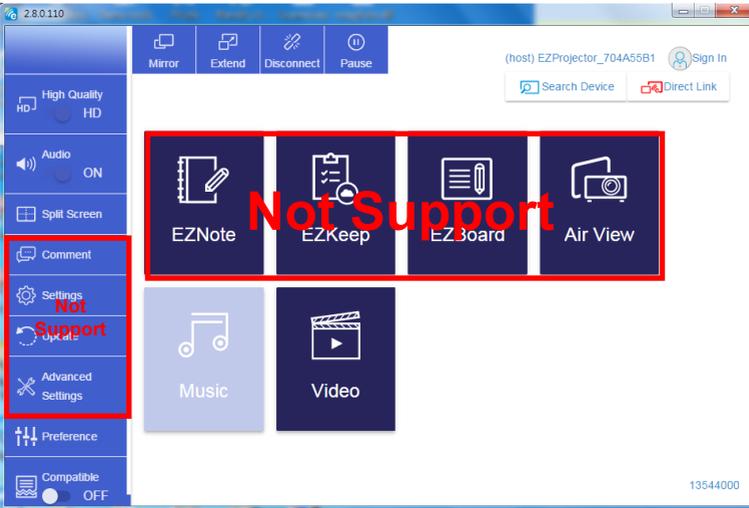


Red frame marking section is currently not supported.

Wireless Display



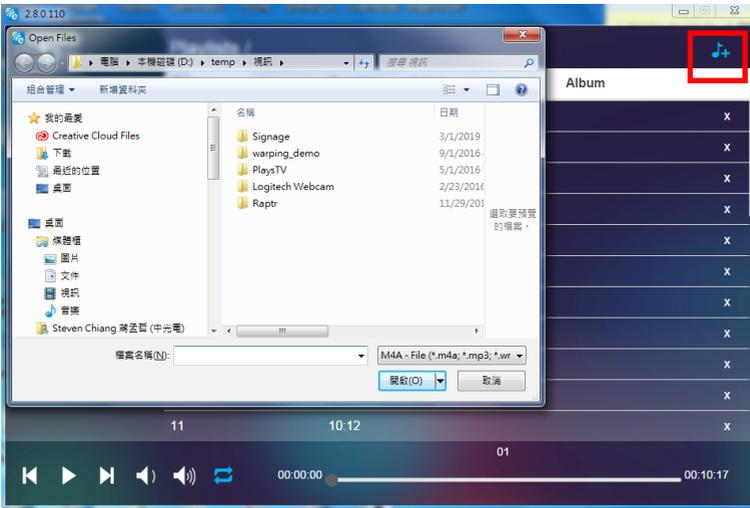
Music



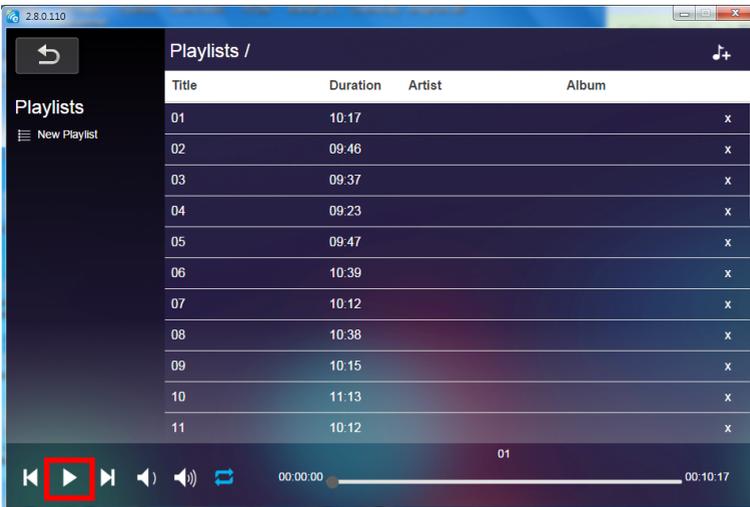
Red frame marking section is currently not supported.

Wireless Display

Select the audio file to play

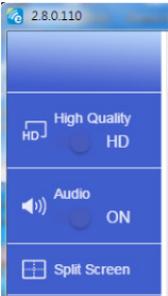


Play the Music



Wireless Display

Software Tool Setting



Quality and Audio

You can choose the mirroring quality and turn on/off the audio. Please be noted the high quality may get less frames per second due to bandwidth consumption is higher.

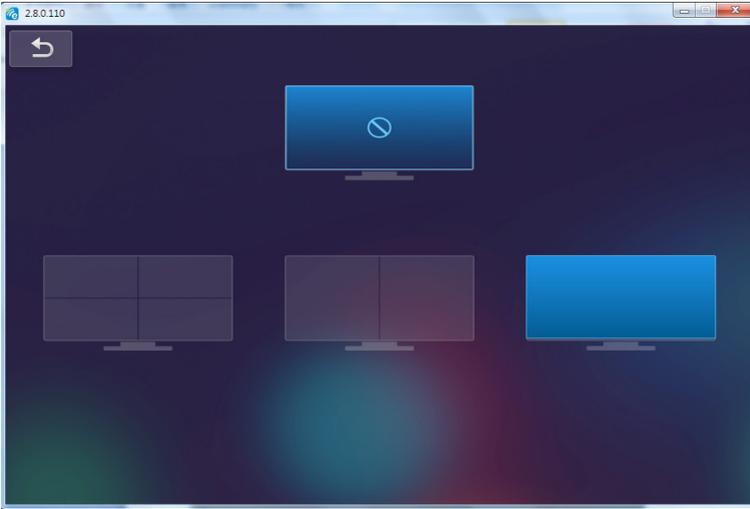
Split Screen and Host Control

When you are the first user link to EZCast Pro and open the app, you will become the "Host".

Host has the authority to control the display, that means Host role can use all features without limitation. The next or later coming users will be treated as "Guest", some functions will be disabled under Guest mode, and you will need to get Host's permission to display.

EZCast Pro device will allow max. 4 users to display on screen together, but only Host can decide the position he wants, other guest's screens will be placed automatically after the request is allowed.

Wireless Display



Wireless Connection of Mobile OS

Follow these steps to mirror the screen of your portable device:

1. Plug in WiFi Dongle.
2. Open EZCastPro APP

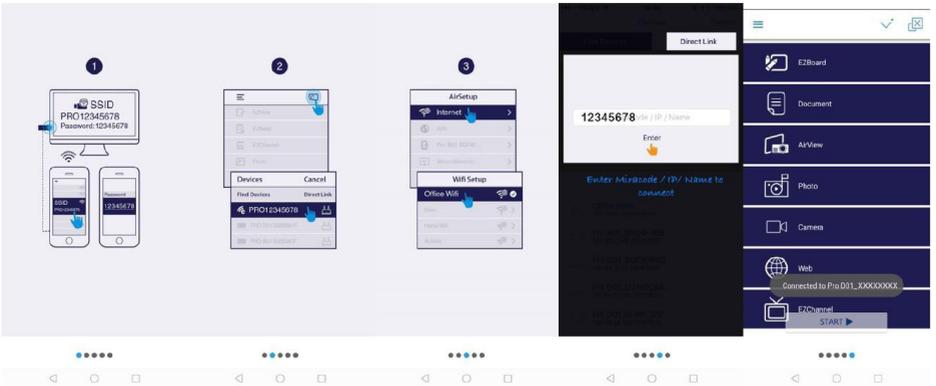


3. Select Source to Network Display and Connect EZProjector_ID via WiFi



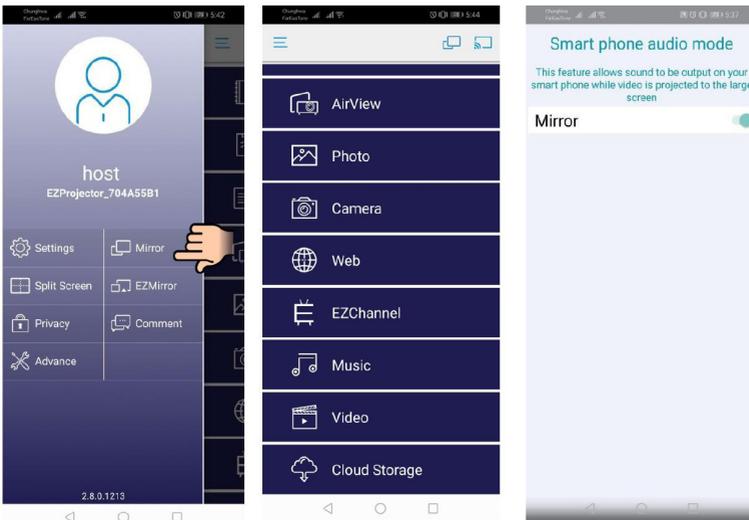
Wireless Display

4. Android APP OOB page is as below,



Wireless Display of Mobile OS

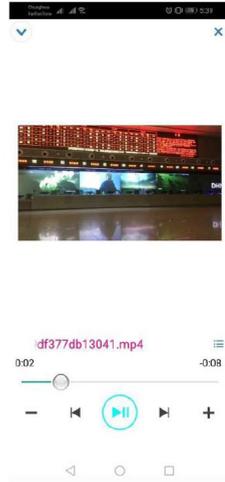
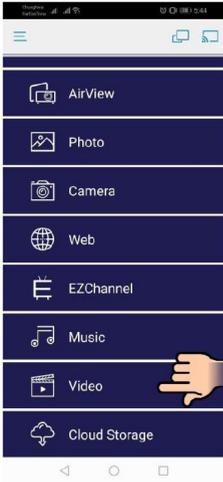
Android APP page is as below,



Wireless Display

Video

Select the video file to play



Music

Select the audio file to play



Wireless Display

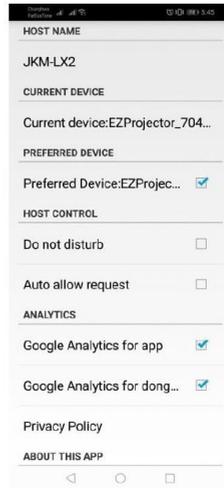
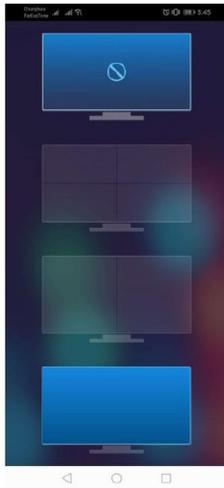
APP Setting

Split Screen and Host Control

When you are the first user link to EZCast Pro and open the app, you will become the “Host”.

Host has the authority to control the display, that means Host role can use all features without limitation. The next or later coming users will be treated as “Guest”, some functions will be disabled under Guest mode, and you will need to get Host’s permission to display.

EZCast Pro device will allow max. 4 users to display on screen together, but only Host can decide the position he wants, other guest’s screens will be placed automatically after the request is allowed.



Wireless Display

Supported Feature

Device	Feature	Limitation
Laptop	Mirroring	Windows 10 Note:Extension mode is not supported.
	Split Screen	
iOS	Photo	Screen Mirroring and video content are not supported
	Document	
	Camera	
	Split Screen	
Android	Mirroring	Video content is not supported
	Photo	
	Document	
	Camera	
	Split Screen	

System Requirements

Operating System/Item	Requirement
Windows	
CPU	Dual Core Intel Core i 2.4GHz
Memory	DDR 4GB and above
Graphics card	256MB VRAM or above
Operating system	Windows 7 / 8.0 / 8.1 / 10 or above
Note: ‡‡ ATOM and Celeron processors are not supported. ‡‡ Operating system with starter version is not supported. ‡‡ Extension mode may not support some laptops with Windows 10 operating system.	
Mac	
CPU	Dual Core Intel Core i 1.4GHz or higher <i>PowerPC is not supported.</i>
Graphic Card	Intel, nVIDIA, or ATI graphics card with 64MB VRAM or above

Wireless Display

OS	Mac OS X 10.11 or above
Note: Please ensure the operating system is up to date.	
iOS	
iOS	iOS 10 or above
Device	All iPhone™ models after iPhone 5
	All iPad™ models after iPad mini 2
Storage	At least 40MB of free storage space
Android	
Phone/Pad	Android 5.0 or above with 1GB RAM
Resolution	WVGA ~ 1080p
CPU	Quad Core or above
Storage	At least 40MB of free storage space

