

MultiPresenter application (for Android/for iOS)

User manual

Compatible with Ver. 1.2.0



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1. Overview of MultiPresenter

1-1. Features

●Transmission of pictures and camera video

MultiPresenter (hereinafter referred to as “this app”) is an app that can transmit, display and project files and photos, camera images, WEB pages and so on inside an Android terminal, iPhone or iPad via a wireless LAN by connecting to our MultiPresenter Stick (DS1-MP10RX Series) using a wireless LAN.

Also, if you are using a projector that is compatible with this app, you can transmit files and photos, camera images, WEB pages and so on inside an Android terminal, iPhone or iPad via a wireless LAN without using MultiPresenter Stick.

In this manual, MultiPresenter Stick and a projector may be called “a receiving device” as a generic name and an Android terminal, an iPhone and an iPad may be called “a terminal”.



●Mirroring display (for Android only)

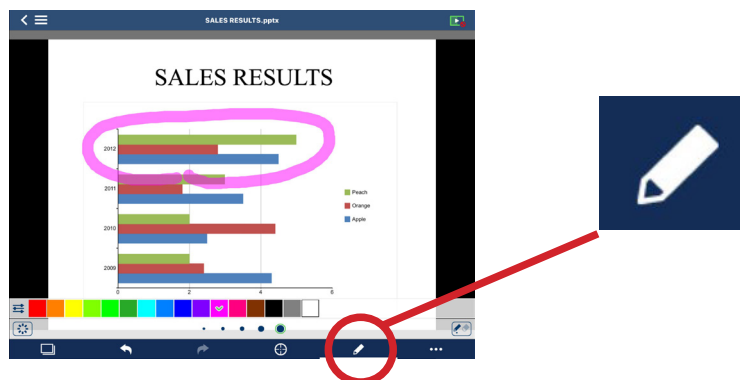
If you are using this app on an Android terminal, you can transmit the screen displayed on your terminal to receiving devices. This function is called “Mirroring display”.

● Marker, Pointer display, and Zoom in/Zoom out functions for effective presentations

◆Marker function

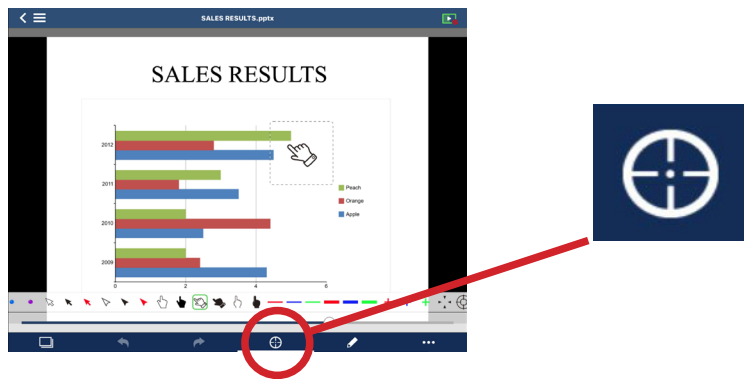
Utilizing the Marker function, you can write lines and texts onto the images and documents that are displayed by this application.

Images and documents with written lines and texts can be saved as images for a presentation.



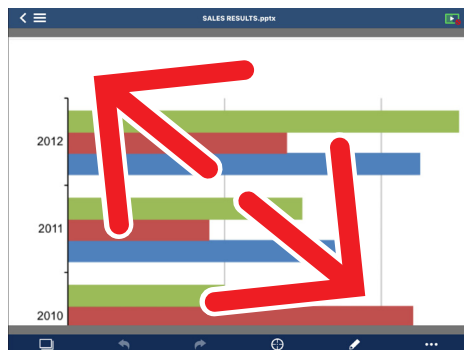
◆Pointer display

The pointer can be displayed at a location where you want to draw attention to. You can choose shape of the pointer from several types and change the size of the pointer with the slider.



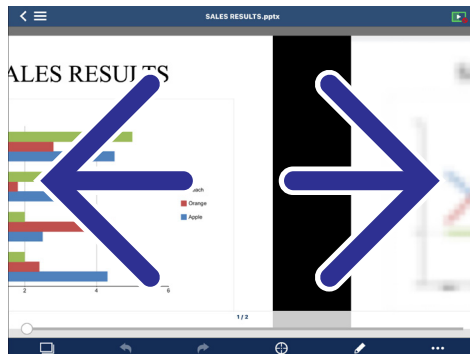
◆Zoom in/zoom out

You can zoom in/zoom out of the screen by pinching in or pinching out.



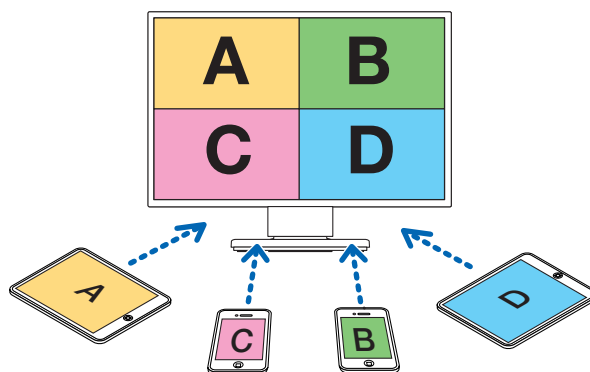
◆Page switching

You can turn the page by flicking on the screen.



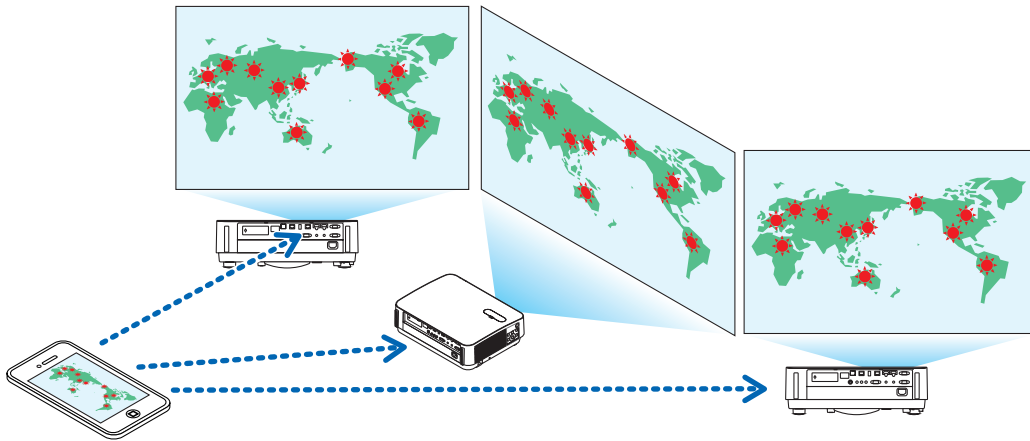
● Multi-screen display

Launch this app on multiple terminals and transmit images from each terminal to a single receiving device. The receiving device displays the received images in the Multi-screen display. 16 screens (4 x 4) can be displayed simultaneously (at the maximum). In this case, the receiving device needs to support "Multi-Screen Display".



● **Simultaneous Display onto multiple receiving devices**

A picture can be transmitted and displayed onto multiple receiving devices (the maximum of about 5 unit) by this app.



● **Using File Sharing between apps**

Files displayed in an email, browser or file sharing app etc. can be shared with this app and displayed on a receiving device.

● **Intelligent Connection**

Supports “Intelligent Connection” which allows the device to be connected via a wireless LAN with minimum operations by entering a PIN code (4-digit number).

When connecting devices by Intelligent Connection, set the profile of the wireless LAN of the MultiPresenter Stick or projector[†] to “Intelligent Connection”.

*: Limited to models that support “Intelligent Connection”.

● **Projector control function**

When connected to a projector, you can turn off the power of the projector, switch the input terminal, control the video, adjust the volume, disconnect the communications, and perform other controls from the target device screen of this app.

● **Supports 11 languages**

The menus and guide messages can be displayed in the following 11 languages.

English, Japanese, Chinese (Simplified), French, German, Italian, Spanish, Portuguese, Swedish, Russian, Korean

The screen indication of this app, describing in this manual, is English.

● **Supports multiple OS**

Besides the apps for Android and iOS, other apps for Windows and macOS are also available.

Download the app for Windows or macOS from the MultiPresenter website.

1-2. Operating conditions

Supporting models	MultiPresenter Stick (DS1-MP10RX series) Our projector supporting MultiPresenter
Supporting OS	Android 5.0/5.1/6.0/7.0/7.1/8.0/9.0 iOS 9/10/11/12

Please visit the MultiPresenter home page for more details.

2. Installation of this application / File transmission

2-1. Installation

2-1-1. For Android OS

- ① Access Google Play to download the MultiPresenter app and then install the app on a terminal.

2-1-2. For iOS

- ① Access the App Store to download the MultiPresenter app and then install the app on a terminal.

2-2. File transmission

2-2-1. For Android OS

- ① Connect the terminal to the computer with a USB cable.
- ② On the terminal, switch the mode to “MTP” in which the terminal can accept files transmitted from the computer.
The terminal will be recognized as a USB storage.
- ③ Use the computer's file management tool etc. to copy the files to the terminal.
- ④ After copying, disconnect the terminal from the computer.

2-2-2. For iOS

- ① Connect the terminal to the computer with a USB cable.
iTunes will start and synchronization will be started.
- ② Select the App and display the File Sharing screen in iTunes.
- ③ Select MultiPresenter and then drag and drop the file.
- ④ Click “Sync” or “Apply”.
Synchronization will start and the files will be transferred to the terminal.
- ⑤ After transferring the files, disconnect the terminal from the computer.

2-3. Using File Sharing between apps

- ① Open the file you want to display on the receiving device by a mail app or file sharing app.
- ② Carry out the “File Sharing” procedure.

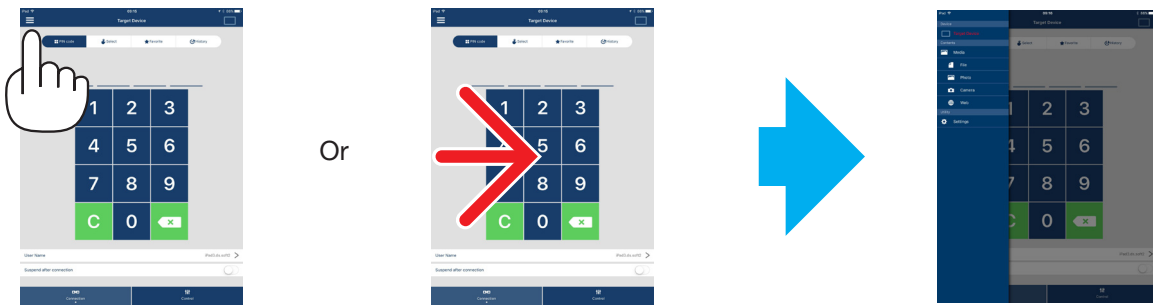
Caution

- “File Sharing” operations differ depending on the OS and version of the terminal that you are using.
 - The file formats that can be shared in this app are the same as those listed in “Displayable File Formats” on page 12.
 - Files in the connection list (those with the file extension “.ncp”) can also be imported by “File Sharing”.
- ③ Select “MultiPresenter” from the list of apps displayed in the sharing window.
 - ④ This app will be launched and descriptions of the shared files will be displayed on.
Shared files displayed in this app will be saved automatically in the “File” of this app.

3. Menu

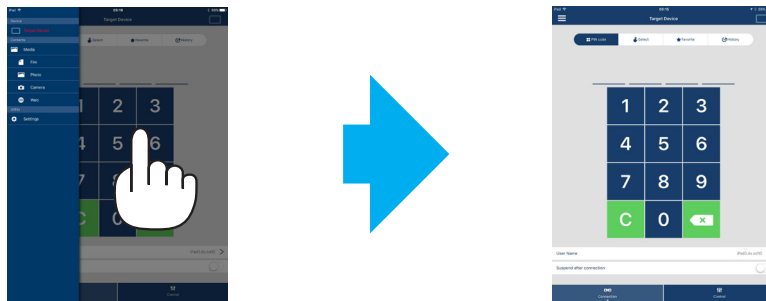
3-1. Viewing the menu

Tap the menu icon (☰) at the top left of the screen of this app. Alternatively, you can also flick to the right from the left of the screen.



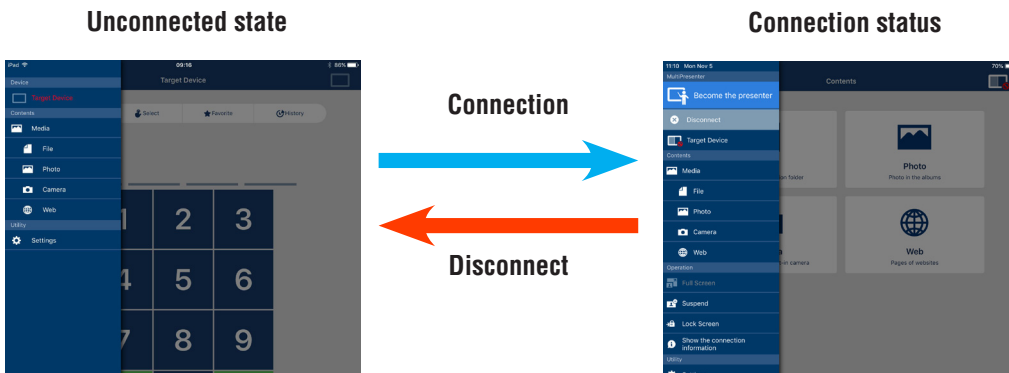
3-2. Turning off the menu

Tap outside the menu.



3-3. Transition of the menu based on the connection status

The menu of this app transits as follows depending on the connection status with the receiving device.



Caution

- When the app and receiving device are connected one-to-one, “Become the presenter”, “Full Screen/Split Screen” cannot be selected.
- When another MultiPresenter user selects “Lock Screen” or sets the MultiPresenter mode to [MANAGED] under the WEB server settings of the MultiPresenter Stick and Multipresenter-supported projectors, “Become the presenter”, “Full Screen/Split Screen”, “Lock Screen/Unlock Screen”, and “Hide the connection information/Show the connection information” cannot be selected.
- When a receiving device that does not support “Multi-Screen Display” is connected, or when multiple receiving devices are connected, “Become the presenter”, “Full Screen/Split Screen”, “Suspend/Resume”, and “Hide the connection information/Show the connection information” are not displayed on.

4. Connecting the MultiPresenter Stick or projector

4-1. Using Intelligent Connection

Caution

- The device supporting Intelligent Connection is required as a receiving device.

4-1-1. Connecting with the MultiPresenter Stick

- ① Connect the MultiPresenter Stick to the display or projector and turn on the power to display the Start-up screen.
For step-by-step instructions, refer to the Quick Setup Guide of the MultiPresenter Stick.
- ② Start the app.
The target device screen will be displayed on.
- ③ Enter the PIN code displayed on the Start-up screen to the target device screen.
When the connection with the MultiPresenter Stick is completed, the Standby screen of this app will be displayed on the display or projector.



4-1-2. Connecting with the projector

- ① Connect the wireless LAN unit to the projector and turn on the power.
- ② Display the NETWORK SETTING either on the on-screen menu of the projector or the HTTP server, and then change the [WIRELESS LAN PROFILE] to [INTELLIGENT CONNECTION].
- ③ Switch the input terminal of the projector to “LAN”.
The PIN code will be displayed on the projection screen.
The PIN code will also be displayed on the [INFORMATION] screen of the on-screen menu.
- ④ Start the app.
The target device screen will be displayed on.
- ⑤ Enter the PIN code displayed on the Projection screen to the target device screen.
When the connection with the projector is completed, the Standby screen of this app will be projected by the projector.

Important

If you are using an iOS terminal, you may need to configure the Wi-Fi settings in order to connect to a receiving device (MultiPresenter Stick or projector etc.) via a wireless LAN.

You have two procedures to set up a Wi-Fi connection for an iOS terminal.

- Procedure 1: Manually connecting a Wi-Fi network
- Procedure 2: Using a QR code displayed in the MultiPresenter app of another terminal

●Method 1: Manually connecting to a Wi-Fi network

- ① Tap “MultiPresenter” on the home screen.
This app will start and the target device screen will be displayed on.
- ② Enter the PIN code displayed on the Start-up screen or the on-screen menu for the receiving device to the target device screen.
The instruction screen will be displayed on.
- ③ Tap “Go to Wi-Fi Settings”.
- ④ Select the SSID displayed on the Start-up screen from the list of networks displayed on the screen of the terminal.
- ⑤ After the password screen is displayed on the terminal, enter the security key displayed on the Start-up screen and tap “Connect”.
- ⑥ Upon connecting with the selected SSID, tap “Back to MultiPresenter” at the top left of the settings screen, or press the Home button to display the Home screen and tap “MultiPresenter”.
The app will connect to the receiving device and the Standby screen of this app will be displayed on the receiving device.

●Procedure 2: Using a QR code displayed in the MultiPresenter app of another terminal

Caution: This procedure is available when a terminal with iOS 11 or later is connected on a one-time PIN code.

- ① Connect the MultiPresenter app of another terminal to the receiving device.
- ② Select “QR Code for Wi-Fi Connection” from the menu of the MultiPresenter app on the connecting terminal.
A QR code is displayed on the screen. (The QR code shown below is an example, which is different from the actual one.)



- ③ Press the Home button of the iOS terminal to be connected with the receiving device to display the home screen
- ④ Tap the Camera app to focus on the QR code.
[Wi-Fi QR CODE Join “xxxxxxx” Network] is displayed on the top screen of the Camera app.
- ⑤ Tap the message on the top screen of the Camera app.
[Join Wi-Fi Network “xxxxxxx” ?] is displayed.
- ⑥ Tap “Join”.
The Wi-Fi connection is switched.
- ⑦ Press the Home button to return to the home screen and tap “MultiPresenter”.
- ⑧ When the PIN code screen is displayed, enter the PIN code displayed on the screen of the receiving device.

4-2. Using SIMPLE ACCESS POINT or INFRASTRUCTURE

4-2-1. Connecting with the MultiPresenter Stick

- ① Connect the MultiPresenter Stick to the display or projector and turn on the power to display the Start-up screen.
For step-by-step instructions, refer to the Quick Setup Guide of the MultiPresenter Stick.
- ② Display the settings menu of the MultiPresenter Stick and change the profile of the wireless LAN.
For step-by-step instructions, refer to the Important Information of the MultiPresenter Stick.
- ③ Connect the terminal you are using in accordance with the “Connection information” displayed on the Start-up screen.

- ④ Start the app.
The target device screen will be displayed on.
- ⑤ Enter the PIN code displayed in the Start-up screen on the target device screen.

When the connection with the MultiPresenter Stick is completed, the Standby screen of this app will be displayed on the display or projector.





















4-2-2. Connecting with the projector

- ① Connect the wireless LAN unit or LAN cable to the projector and turn on the power.
- ② Display the network settings screen in the HTTP server or on-screen menu of the projector and change the profile of the wired or wireless LAN.
Refer to the user’s manual of the projector for the procedure.
- ③ Connect the terminal you are using in accordance with the network settings displayed in the Information screen of the projector’s on-screen menu.
- ④ Start the app.
The target device screen will be displayed on.
- ⑤ Select the receiving device from the list.
When the connection with the projector is completed, the Standby screen of this app will be projected from the projector.

5. Description of the menu

5-1. Status display

An icon to indicate the status of this app will appear at the top right of the screen.

Display of icons	Status				
	Indicates that a receiving device such as the MultiPresenter Stick or projector etc. has not been connected yet.				
	<p>Indicates that a receiving device has been connected. Different colors on the left and right of the icon indicate that “Multi-Screen Display” is supported.</p> <p> Indicates that “Become the presenter” and “Full Screen” cannot be selected.</p> <p> Indicates the Lock Screen status.</p> <p> indicates wireless signal strength.</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>: High</td> <td>: Medium</td> <td>: Low</td> <td>: No signal</td> </tr> </table> <p> indicates a wired LAN connection.</p> <p> indicates a poor connection.</p>	 : High	 : Medium	 : Low	 : No signal
 : High	 : Medium	 : Low	 : No signal		
	Indicates that multiple receiving devices are connected at the same time. Or that a receiving device that does not support “Multi-Screen Display” is connected.				

5-2. Become the presenter

When transmitting pictures from multiple MultiPresenters to a single receiving device, the picture that you are transmitting will be displayed in a Full Screen.

Caution

“Become the presenter” cannot be selected in the following cases.

- When the connected receiving device does not support “Multi-Screen Display”.
- When “Lock Screen” is selected by an other MultiPresenter user.
- When the connection between this app and terminals is executed one-to-one or one-to-multiple terminals.
- When the MultiPresenter is set to the [MANAGED] mode under the “SETTINGS” of the WEB server of the MultiPresenter Stick and Multipresenter-supported projectors.


5-3. Disconnect

Turn off the connection with the receiving device.


5-4. Target Device

The screen to connect this app to the MultiPresenter Stick or a projector.

There are 2 tabs - “Connection” and “Control” - at the bottom of the screen.

The various buttons under the “Control” tab are effective when this app is connected to a projector. Only the “Update 

[Connection] tab






PIN code	Enter the PIN code (4-digit number) displayed on the receiving device.
Select	<p>Displays a list of the receiving devices found on the same network or those registered in the connection list. Click the name of the device to connect.</p> <ul style="list-style-type: none"> • When you click “Multiple”, a check box will appear to the left of the receiving device list. • Click  to update the list. • When a device is connected, a ☆ mark will appear on the right side of the device name. When the ☆ mark is clicked, it will turn yellow and the device name will be registered in “Favorite”. • Click “Search by IP address” to display the input screen. Enter the IP address of the device you want to connect in the “XXX.XXX.XXX.XXX” format. • Refer to Page 14 for the “Edit Connection List”.
Favorite	<p>A list of the devices whose ☆ mark has turned yellow will be displayed. When the ☆ mark is clicked and turns from yellow to white, the device name will be deleted from “Favorite”.</p>
History	A list of device names that have been connected in the past will be displayed (maximum of 10 names). The list is in descending order with the device that was last connected on top.
User Name	Click User Name to display the edit screen for editing the User Name. Use 0-32 characters for the User Name.
Suspend after connection	Setting on whether to Suspend after connection to a receiving device or not. (Initial value is off)

Disconnect All	Displays in the state this app has been connected to a receiving device. Once selecting this, the communication will be disconnected.
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[Control] tab

Picture	Mute (Not display picture) or freeze (still) the display.
Sound	Mute or play back the sound.
Volume	Move the slider bar to adjust the volume.
Source	The source terminal can be displayed and switched. Only 3 languages can be displayed - English, Japanese and Chinese (simplified). For all other languages, the display will be indicated in English.
Power off	Turns off the power of the projector to switch to the standby mode.
Disconnect	Disconnects the communications with the receiving device.
Browse Server	Displays the WEB server or HTTP server of the receiving device connected in the network.

5-5.  Media

 Mirroring display (for Android only)	Transmits the screen displayed on each device to a receiving device.
 File	Selects a file and transmits its image to a receiving device. The Marker function, Pointer display and Zoom in/Zoom out function can be used. See the next page for the list of supported file formats.
 Photo	Selects a photo and transmits its image to a receiving device. The Marker function, Pointer display and Zoom in/Zoom out function can be used.
 Camera	Transmits an image taken by the built-in camera to a receiving device. The Marker function, Pointer display and Zoom in/Zoom out function can be used. These functions cannot be used when the camera is not connected to a receiving device.
 Web	Transmits an image displayed in the WEB browser to a receiving device. For using the “Web”, connect the terminal to the wireless network that can access to internet by INFRASTRUCTURE.

●File formats that can be displayed

Android	Document file	Adobe Acrobat (.pdf) ^(Note 1)
	Picture file	JPEG format (.jpg/.jpeg), PNG format (.png), GIF format (.gif), Bitmap format (.bmp)
iOS	Document file	Adobe Acrobat (.pdf) ^(Note 1) , Microsoft Word (.docx) ^(Note 2) , Microsoft Excel (.xlsx) ^(Note 2) , Microsoft PowerPoint (.pptx) ^(Note 3) , iWork - Keynote (.key) ^(Note 3) , iWork - Numbers (.numbers)
	Picture file	JPEG format (.jpg/.jpeg), PNG format (.png), GIF format (.gif), Bitmap format (.bmp)

Note 1: Supporting PDF1.7 (compatible with Acrobat 8) or later. If PDF in the older format is selected, this app may not work properly.

Note 2: Image will be displayed in a longitudinal layout like putting on a rolled paper.

Note 3: Page settings need to be configured if page cannot be switched correctly.

Other restrictions:

- Even the files that satisfy all conditions in above, images may not be displayed correctly because a device performs to display based on the OS standard.
- Files that are password-protected cannot be displayed.
- Video containing will not be played and only the first frame of the video will be shown.
- The maximum number of characters as a filename is based on the specifications of the OS.

5-6. Full Screen / Split Screen

When transmitting pictures from multiple MultiPresenters to a single receiving device, select whether to display the transmitting pictures on full or split screen.

Caution

“Full Screen/Split Screen” cannot be selected in the following cases.

- When the connected receiving device does not support “Multi-Screen Display”.
- When “Lock Screen” is selected by an other MultiPresenter user.
- When the connection between this app and terminals is executed one-to-one or one-to-multiple terminals.
- When the MultiPresenter is set to the [MANAGED] mode under the “SETTINGS” of the WEB server of the MultiPresenter Stick and Multipresenter-supported projectors.

5-7. Suspend / Resume

Select either to stop temporarily (Suspend) or to restart transmission (Resume).

Caution

“Suspend/Resume” cannot be selected in the following cases.

- When the connected receiving device does not support “Multi-Screen Display”.
- When the app is connected to multiple receiving devices.

5-8. Lock Screen / Unlock Screen

Select either to lock (prohibit) or unlock (permit operation) to the receiving device from the MultiPresenter for another user.

Caution

“Lock Screen/Unlock Screen” cannot be selected in the following cases.

- When the picture being transmitted from the app is not displayed in Full Screen.
- When “Lock Screen” is selected by an other MultiPresenter user.
- When the MultiPresenter is set to the [MANAGED] mode under the “SETTINGS” of the WEB server of the MultiPresenter Stick and Multipresenter-supported projectors.

5-9. Hide the connection information / Show the connection information

Select whether to display or hide the connection information (PIN code, SSID, security key, device name, WEB server URL) on the screen of the receiving device.

Caution

“Hide the connection information/Show the connection information” cannot be selected in the following cases.

- When “Lock Screen” is selected by an other MultiPresenter user.
- When the MultiPresenter is set to the [MANAGED] mode under the “SETTINGS” of the WEB server of the MultiPresenter Stick and Multipresenter-supported projectors.
- The connection information may not displayed on depending on the receiving device.

5-10. Settings

Configure the settings of the app.

4 menus are available - “Picture”, “Search”, “Standby Image” and “About”.

[Picture] tab

Picture Quality	Sets the transmitting picture quality. Transmission speed becomes faster as the picture quality is lowered.
Enlarge the transmitting image to the output resolution (For Android only)	Sets whether to expand the resolution of the picture to transmit according to the output resolution of the receiving device. (Initial value is ON)

[Search] tab

Search the local network by the broadcast	Setting on whether to search the local network using a broadcast or not when inspecting a receiving device. (Initial value is ON)
Search by the connection list	Setting on whether to search by the connection list when searching for receiving devices or not. (Initial value is ON)
Use INTELLIGENT CONNECTION (for Android only)	When using the INFRASTRUCTURE function, setting this item to OFF allows INTELLIGENT CONNECTION to be inhibited. (Initial value is ON.) CAUTION • Setting ON allows INTELLIGENT CONNECTION to be enabled if a receiving device with a specified PIN is not found by using the INFRASTRUCTURE function.

[Standby Image]

Default	Select a picture displayed as the Standby screen of this app. (Initial value is Default)
Blue	
Black	
User's Media	

[About] tab

Version	The version of the software will be displayed under “MultiPresenter”.
Licenses	Displays the Licenses screen.
Tutorial	Displays the introduction screen of this app.

5-11. QR Code for Wi-Fi Connection

When this app is connected to the receiving device with Intelligent Connection (One-time PIN code), a QR code available on the iOS terminal for Wi-Fi connection is displayed.

By capturing the QR code on the Camera app of your iOS terminal, you can perform auto Wi-Fi connection on the MultiPresenter app (for iOS) instead of manual Wi-Fi connection. (→ page 8)

Caution

- This feature is available when a terminal with iOS 11 or later is connected to the receiving device with Wi-Fi connection.

6. Edit Connection List

When using the connection list, multiple receiving devices can be grouped for management purposes. For example, when installing receiving devices in each meeting room or classroom and so on, it is convenient to search receiving devices quickly if the IP address of each receiving device is registered in the connection list in advance. By the registration, the app automatically searches devices. You can also narrow down the receiving devices that you want to find in a group.

Important

- It is not possible to create a connection list in this app. First, create and export a connection list using the MultiPresenter application (for Windows/macOS) and export it.

6-1. Import

Import	Imports the file of the connection list. Only files with the file extension “.ncp” can be imported. In addition, files of the connection list can also be imported using the File Sharing between apps. (See → 5 page)
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6-2. Select Groups for Search

Group list	Adds check marks to the groups subject to the search.
Uncheck All	Removes all check marks.
Check All	Adds check marks to all groups.

Caution

- The connection list of the app is not compatible with the Connection Target List of Image Express Utility 2.0 and Image Express Utility Lite.

7. Caution and restrictions

- For iOS, communications with the receiving device will be disconnected when this app migrates to the background. If this app is left in this state for a while, the security key of the receiving device will be changed automatically and it may not be possible to re-connect normally.

In this case, reset the password of the receiving device in the Wi-Fi settings of the terminal.

- For iOS, you may not be able to connect to the network even if you select the correct network and enter the correct password when configuring the Wi-Fi settings. In this case, tap the information button (i) at the right of the network name and follow the instructions in “Delete this network setting”. After that, re-configure the Wi-Fi settings again.
- For selecting the “Web” in the “Media” in this app, connect the terminal to the wireless network that can access to internet by INFRASTRUCTURE. When the terminal has connected to the wireless network by either INTELLIGENT CONNECTION or SIMPLE ACCESS POINT, the WEB Sharing screen will be displayed on when the “Web” is selected.
- Depending on the Android terminal, the INTELLIGENT CONNECTION may not work properly. In this case, configure the Wi-Fi settings manually, display the [Select +] tab of the target device screen, and select the receiving device.
- For using the INTELLIGENT CONNECTION on the Android terminal which version is 6.0 or later, make sure to set the location information effective.

8. Trademarks

- MultiPresenter is a trademark or registered trademark of NEC Display Solutions, Ltd. in Japan and other countries.
- Microsoft, Windows, Excel and PowerPoint are registered trademarks or trademarks of Microsoft Corporation in the US and other countries.
- Android and Google Play are registered trademarks or trademarks of Google Inc.
- Apple, macOS, OS X, iPhone, iPad, iTunes, iWork, Keynote, Numbers are trademarks of Apple Inc. registered in the US.
- iOS is a trademark or registered trademark of Cisco in the United States and other countries, which is used under license.
- App Store is a service mark of Apple Inc.
- Adobe and Acrobat are trademarks of Adobe Systems Incorporated (Adobe Systems).
- Wi-Fi is a registered trademark of the Wi-Fi Alliance.
- QR Code is a registered trademark or trademark of DENSO WAVE INCORPORATED in Japan and other countries.
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