SHARP

Touch Display Link

Version 1.0

PN-SL01

Operation Manual

Contents

Introduction

Touch Display Link is software that allows a computer connected to a SHARP monitor to communicate with tablet devices via Wi-Fi. It also lets users send and receive files, share screens, and operate the monitor screen from a tablet device.

- The computer can be operated by dragging or performing actions on a tablet device.
- Files can be sent and received between tablet devices and a computer.
- If using SHARP Pen Software, Pen Software screens displayed on the monitor can be viewed on a tablet device.
  Handwritten notes written using Pen Software can also be sent to a tablet device.

■ Important Information

- This software has been shipped after strict quality control and product inspection. If, however, you find any failure or malfunction, contact your product dealer.
- Please understand that SHARP CORPORATION bears no responsibility for errors made during use by the customer or a third party, nor for any other malfunctions or damage to this software arising during use, except where indemnity liability is recognized under law.
- Transcribing or duplicating part or all of this manual and/or this software without permission from our company is not permitted.
- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice.
- File names and numbers of characters that can be handled by this software comply with the specifications of Windows, Android, and iOS.

■ Notation Conventions

- Key press actions are indicated with square brackets.
  E.g. [Home] key, [Back] key, etc.
- Menus, windows, dialog boxes, buttons, and tabs etc are indicated with square brackets.
  E.g. **1. Tap the [Show host menu tag] on the desktop.**

  The Host menu appears.
- Items, check boxes, and option buttons, etc., are indicated with quotation marks.
  E.g. "Shake to Send File", "Verify by connection ID", etc.
- This manual assumes that Touch Display Link has been installed in the following location. If you have installed Touch Display Link in a different location, this can be interpreted to refer to the folder where you installed it.
  C:\Program Files\SHARP\Touch Display Link (default)
- The screenshots and operational procedures in this manual are only examples. These may change depending on your monitor, screen settings, or the version of the OS you are using and other factors. This manual gives instructions using Windows 7 as an example.
- This manual does not contain basic operating instructions for Windows, Android, and iOS.
- In this manual, the terms "microSD memory card" and "microSDHC memory card" are shortened to "SD card".
- Compatible Android devices and iOS devices are collectively referred to as "tablet devices".
- A computer with this software installed that is connected to a compatible monitor is referred to as a "host".

Operating Environment

A monitor, computer connected to a monitor, and tablet device are required.
A wireless LAN environment is required to connect tablet devices to the network.

Example System Configuration

Computer
(Host)

Monitor

Wireless LAN
Access point

Tablet devices
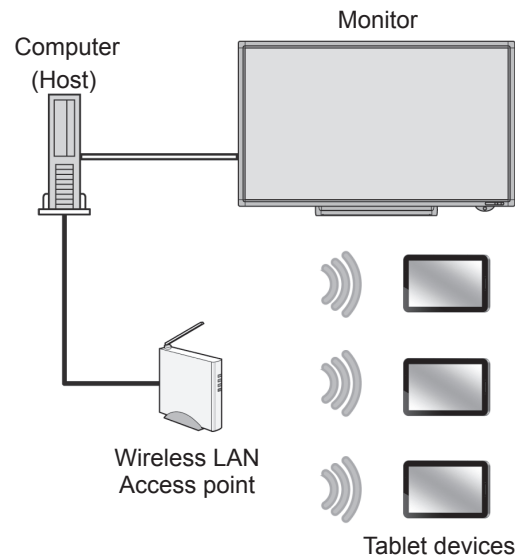
■ Monitor

SHARP monitors (as of November 2012)
PN-L601B / PN-L602B / PN-L702B / PN-L802B

■ Computer

The computer must fulfill the requirements below.

CPU	Intel Celeron or AMD Sempron 1.6 GHz or faster Intel Core 2 Duo or AMD Athlon II X2 2.8 GHz or faster recommended
OS	Windows XP (32-bit or 64-bit version), Windows Vista (32-bit or 64-bit version), Windows 7 (32-bit or 64-bit version)
Memory	At least 2 GB
Free space on hard drive	At least 100 MB

Pen Software version 2.5.2.5 or later must be installed in order to use Pen Software functions.

■ Tablet devices

Android devices (as of November 2012)

- Asus Eee Pad Transformer TF101
- Samsung Galaxy Tab 10.1 GT-P7510
- Motorola Xoom MZ604, Xoom2 MZ615

(Android 2.3.3 or later with English language support)

* Insert an SD card.
   The software may not function properly if an SD card is not inserted.

iOS devices (as of November 2012)
Apple iPad, iPad 2, and iPad (third generation) (iOS 5.0 or later with English language support)

■ Wireless LAN environment (Wi-Fi)

Requires a local network with wireless LAN connection capabilities.
Ensure that the tablet device is ready to connect to the local network.
For connection settings, refer to the manual for the tablet device or access point.

TIPS

- A maximum of 20 tablet devices may be connected to a single host at the same time.
  The number of devices that can be connected may be lower depending on network environment and other factors.
- If this application goes into standby mode because a tablet device is locked, the Home button is pressed, another application is started, or a similar event occurs while this application is running, the following happens:

Android device

The current process is canceled.

File transmission and reception is processed in the background.
To start using the software again, reconnect to the host.

iOS device

The current process is canceled.

File transmission and reception continues but is interrupted once the time that iOS can process background tasks (maximum 10 minutes) has elapsed.
To start using the software again, reconnect to the host.

Installing the software

Computer

Ensure you are logged in with administrator privileges.

The license code is required for installation.

1. **Exit all application software.**

2. **Launch the setup program (Setup.exe).**

3. **Follow the instructions on the screen.**
    - If a "User Account Control" window appears, tap [Yes] (or [Allow]).
    - If a security warning saying ("The publisher could not be verified.") is displayed, tap [Run].
    - If you do not want the application to start automatically when the computer starts up, clear the "Automatically start Touch Display Link" check box.

Android device

Download and install the application from Google Play.

> **TIPS**
>
> Refer to the instructions that came with your Android device.

1. **Tap [Google Play] or [Play Store].**

    When the Details screen is displayed, check the app's functions, developer, and other detailed information.

2. **Tap the search field, type "Touch Display Link", and tap [Search].**

3. **Tap the [Touch Display Link] that appears in the search results.**

4. **Tap [Install].**

5. **If you agree to the security permissions that the app requires, tap [Accept & download].**

    The download will start.

iOS device

Download and install the application from the App Store.

> **TIPS**
>
> - Refer to the instructions that came with your iOS device.

1. **Tap [App Store].**

2. **Tap the search field, type "Touch Display Link", and tap [Search].**

3. **Tap the [Touch Display Link] that appears in the search results.**

4. **Tap the [FREE] icon.**

5. **Tap the [INSTALL APP] icon.**

    The installation will start.

Starting the application

Computer

The application will normally start automatically when the computer starts up.
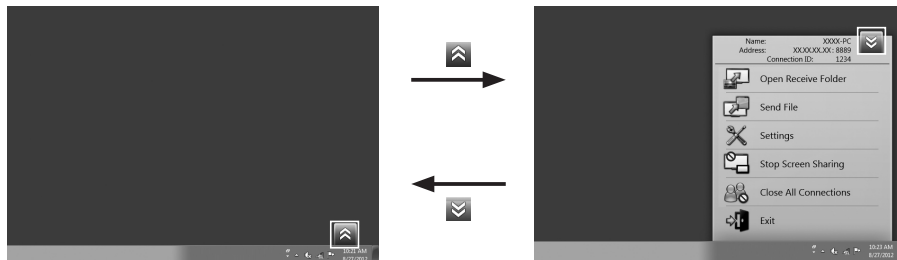
1. **Tap the [Show host menu tag] ⌃ on the desktop.**

   The Host menu appears.

	Name:	XXXX-PC
	Address:	XX.XX.XX.XX : 8889
	Connection ID:	1234

   - Open Receive Folder
   - Send File
   - Settings
   - Stop Screen Sharing
   - Close All Connections
   - Exit

   The Host menu screen is used for host operation. (page 8)

TIPS

- When the application is started for the first time, if a message saying "Windows Firewall has blocked some features of this program" appears, select "Allow access".
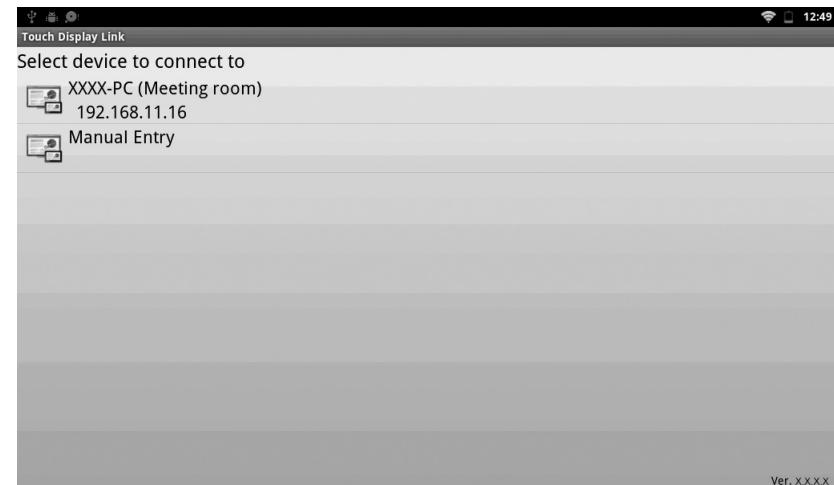- The [Show host menu tag] can be moved by dragging.

Tablet device

TIPS

- Refer to the manuals that came with your tablet device.

1. **Tap "TDLink".**

   Touch Display Link starts and a list of hosts connected to the same network is displayed.
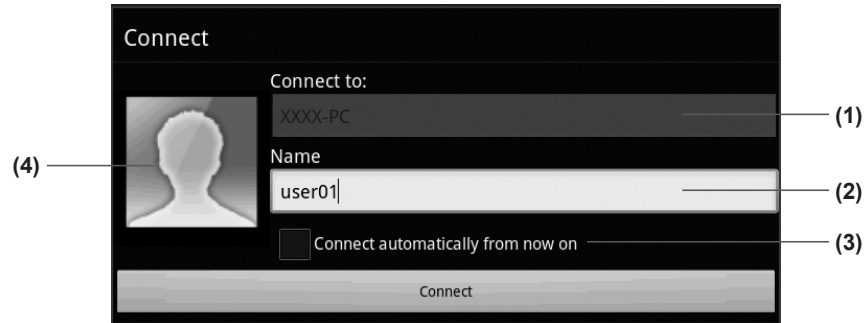

   Touch Display Link

   Select device to connect to

   XXXX-PC (Meeting room)
   192.168.11.16

   Manual Entry

   Ver. x.x.x.x

2. **Tap a host that you want to connect to.**

   To manually enter the IP address of a host, tap [Manual Entry].

   A login information screen appears.

3. Enter login information.

(1) Connect to

Do not enter this information if you selected a host in step 2.

If you selected [Manual Entry] in step 2, enter the IP address of the host that you want to connect to.

(2) Name

Enter a user name. (Maximum length: 12 half-width characters/6 full-width characters)

The name you enter will be displayed on the host (monitor).

(3) Connect automatically from now on

Select the check box to automatically connect to the same device next time the application starts.

Selecting the check box allows you to automatically connect simply by tapping [TDLink].

(4) Icon

Set an image that will be displayed on the host (monitor) when logging in.

To change the image, tap the icon and select a different image.

4. When you have completed the settings, tap [Connect].

The main screen on the tablet device is displayed. (page 9)

Screen guide

Main screen on Computer (Host menu)
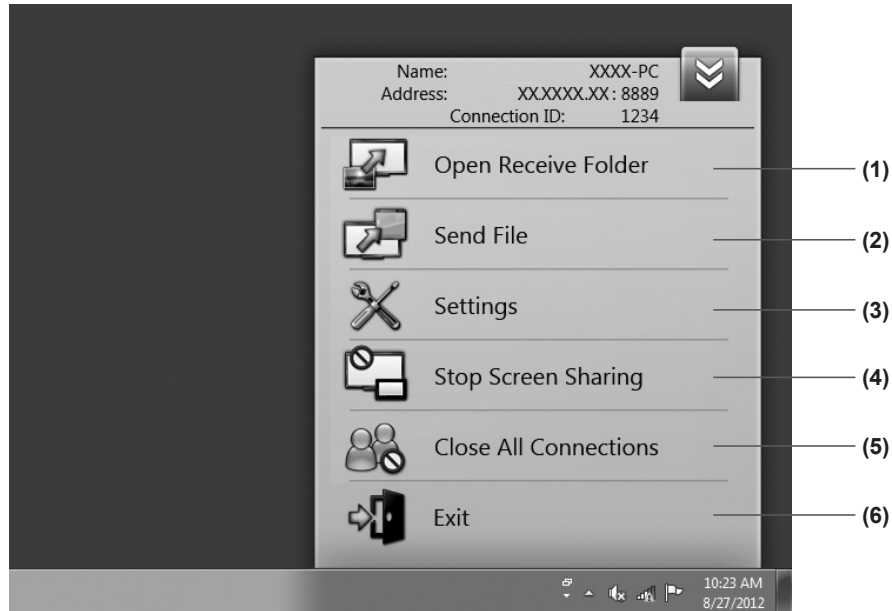
(1) Open Receive Folder
Opens the folder where files downloaded from the tablet device are stored.

(2) Send File
Sends files to a tablet device. (page 13)

(3) Settings
Configures host operation settings. (page 23)

(4) Start (Stop) Screen Sharing
Can be used to share the screen of a monitor connected to the host and display it on tablet devices. (page 18)
Displays [Stop Screen Sharing] if the screen is displayed. Tap [Stop Screen Sharing] if you do not want to display the screen on tablet devices.

(5) Close All Connections
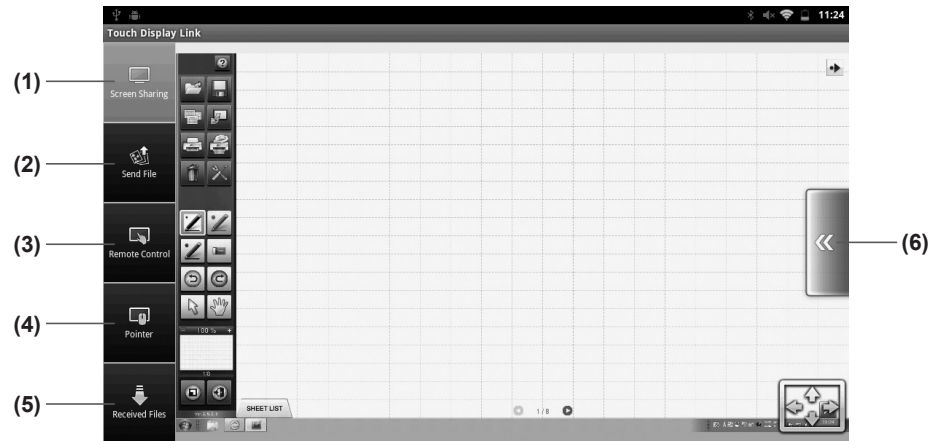Forcibly ends the connection with all connected tablet devices.

(6) Exit
Exits the host application.

Tapping the [Hide host menu tag] ⌄ on the upper right of the Host menu closes the Host menu. Tapping the [Show host menu tag] ⌃ again opens the Host menu.

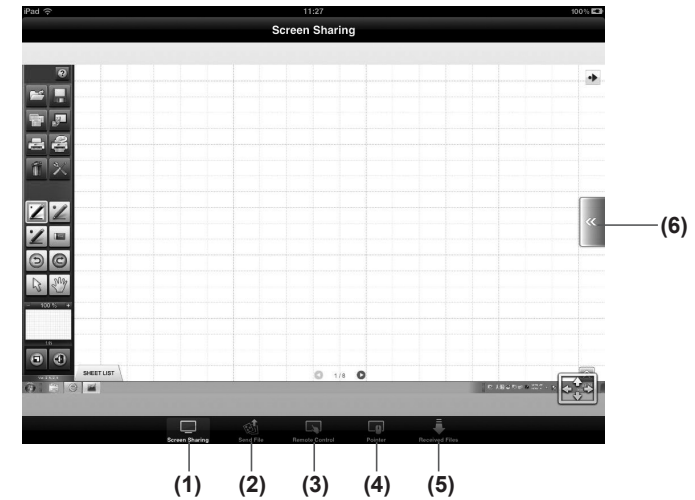# Main screen on tablet device

Android device

iOS device

(1) Screen Sharing
Displays the host screen on tablet devices. (page 18)

(2) Send File
Sends files from a tablet device to the host. (page 14)

(3) Remote operation (Pen Software operation mode)
Used to operate Pen Software on the host from a tablet device. (page 10)

(4) Remote operation (Pointer mode)
Used to operate the host's pointer from a tablet device. (page 11)

(5) Received Files
Used to operate files sent from the host to a tablet device. (page 19)

(6) Open/close menu
Displays the menu for each function.

The first time the application is used, an operation guide will appear when a function button
is tapped.
Tapping the screen closes the operation guide.
To see operation guides again tap [Open menu] and then [Operation Guide].
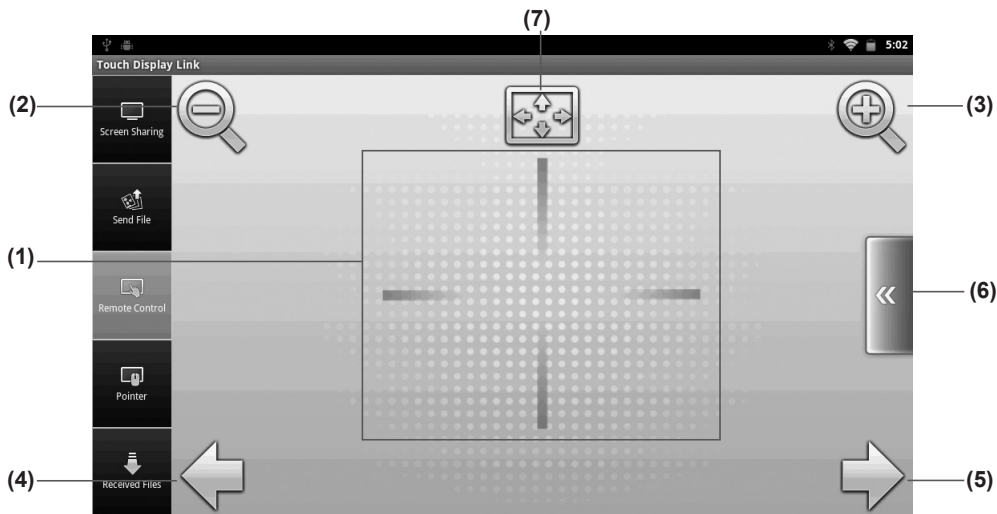
Operating a monitor from a tablet device

You can operate the host from a tablet device.

■ Remote operation (Pen Software operation mode)

You can operate Pen Software on the host from a tablet device.

1. **On the main screen on the tablet device, tap [Remote Control].**

   The Pen Software operation mode screen appears.

(1) Remote operation area
When the sheet is enlarged, this area can be dragged to scroll the image.

(2) Reduce screen
Reduces the current sheet.

(3) Enlarge screen
Enlarges the current sheet.

(4) Display previous sheet
Displays the previous sheet.
Cannot be tapped when the first sheet is displayed.

(5) Display next sheet
Displays the next sheet.
Cannot be tapped when the last sheet is displayed.

(6) Open/close menu
Shows/hides the remote operation function screen menu. (page 12)

(7) Display at full size
Returns the zoom ratio of the current sheet to 100%.

TIPS

• When "Allow remote control from one computer" is selected in "Pen Software Remote Settings" on the host (page 23), Pen Software cannot be operated if another tablet device is using the remote operation function.
On the menu, tap "Get Pen Software Control". (page 12)

• When "Do not allow remote control" is selected in "Pen Software Remote Settings" on the host (page 23), the remote operation function cannot be used.

■ Remote operation (Pointer mode)

1. **On the main screen on the tablet device, tap [Pointer].**

The software switches to pointer mode and the pointer displayed on the monitor can be operated from the tablet device.
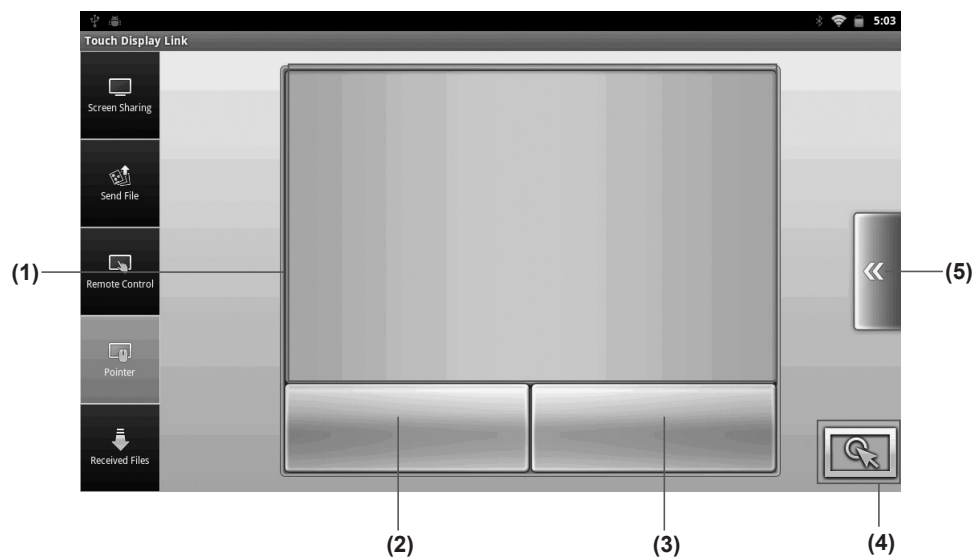
(1) **Remote operation area**
Drag this area to move the display position of the pointer on the monitor.

(2) **Left click**
Executes a left mouse click at the position where the pointer is displayed on the host (monitor).

(3) **Right click**
Executes a right mouse click at the position where the pointer is displayed on the host (monitor).

(4) **Highlight pointer**
Highlights the position of the pointer on the host (monitor).

(5) **Open/close menu**
Shows/hides the remote operation screen menu. (page 12)

TIPS

Your pointer color is determined as the same one on the figure icon when you connect to a conference. This makes it easier for you to identify which pointer belongs to whom when there are some other participants.

■ Menu operation in remote operation mode

To show the menu, tap the remote operation [Open menu] button.
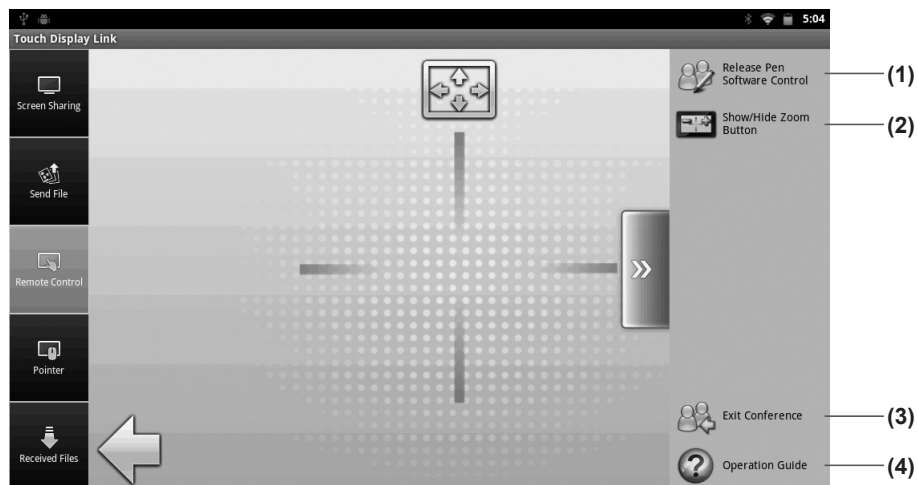
(1) Get/Release Pen Software Control (Pen Software operation mode only)
Obtains the host's remote operation permissions.
If operation permissions have already been obtained, [Release Pen Software Control] is displayed.
Tap to cancel operation permissions.
Used when "Allow remote control from one computer" is selected in "Pen Software Remote Settings" on the host (page 23).

(2) Show/Hide Zoom Button (Pen Software operation mode only)
Shows/hides the [Enlarge screen] and [Reduce screen] buttons.

(3) Join Conference/Exit Conference
To end the connection with the host without exiting the application, tap [Exit Conference].
To reconnect, tap [Join Conference] again and select a host to connect to. (page 6)

(4) Operation Guide
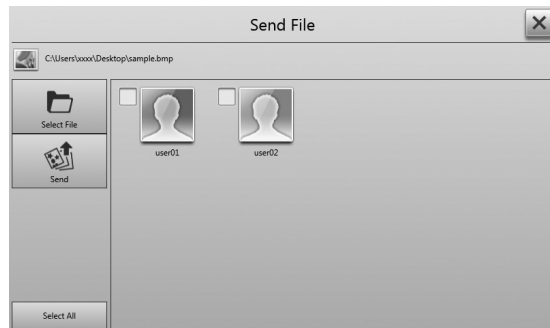Displays operation guides. (page 22)

Sending files from the Computer to a tablet device

You can send files from the host to a tablet device. (Recommended file size: 30MB or less)
It is possible to send images, documents, and other data files.

Computer operation

You can send files from the host to a tablet device.

1. **In the Host menu, tap [Send File].**

2. **Tap [Select File], select files to transfer, and tap [Open].**

   Or select files to transfer using a drag-and-drop operation.
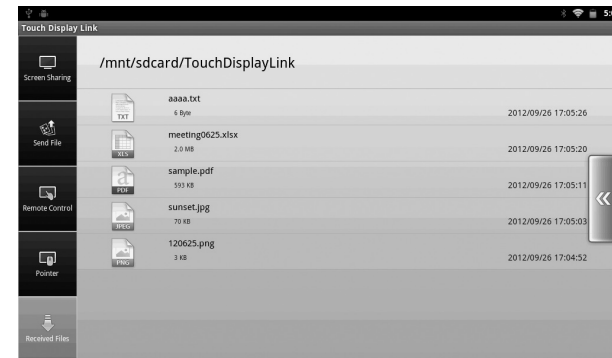

3. **Select a destination user.**

   Tapping [Select All] selects all destination users. To cancel, tap [Cancel All].

4. **Tap [Send].**

   The selected files are sent to the tablet device.
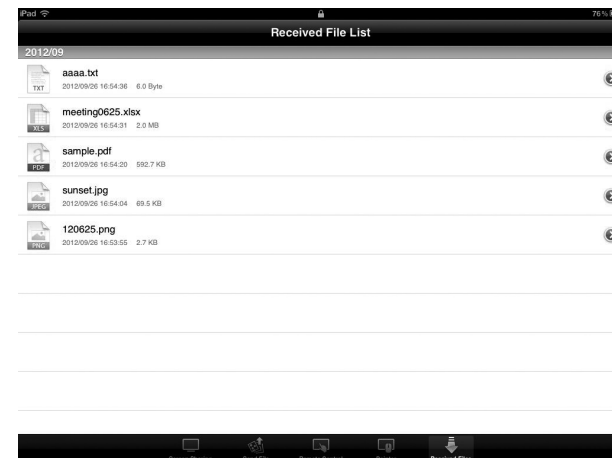
Tablet device operation

1. **Tap [Received Files].**

   A list of files received from the host appears.
   Select files.

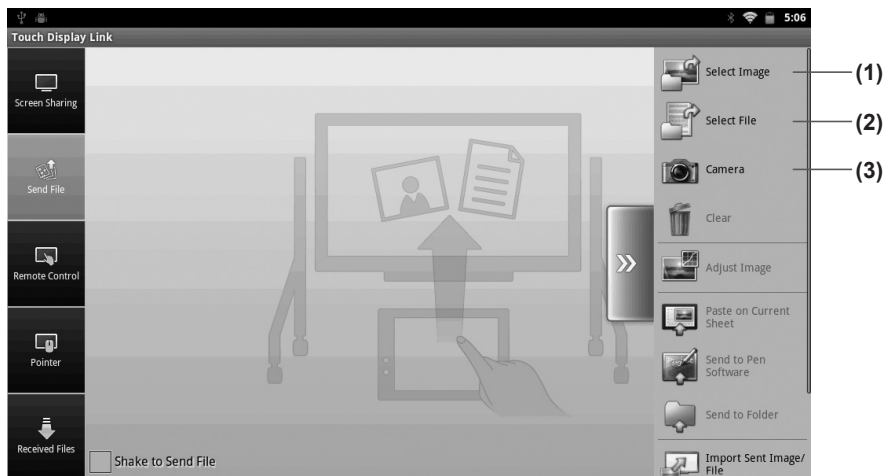   **Android device**

   iOS device

Sending files from a tablet device to the Computer

You can send files from a tablet device to the host. (Recommended file size: 30MB or less)
It is possible to send images, documents, and other data files.

Tablet device operation

1. **On the main screen on the tablet device, tap [Send File].**
2. **Tap [Open menu] on the right of the screen.**
   A menu appears.

3. **Select the files you want to send.**
   (1) Select Image
      Selects images saved on tablet device.
      → Selecting images (page 15)
   (2) Select File
      Selects files saved on tablet device.
      → Selecting files (page 16)
   (3) Camera
      Starts the camera and selects captured data as images.
      → Camera (page 15)
   When a file is selected, the selected file is displayed.
   To cancel selected files, tap [Clear].

4. **Select a transfer method and send the files. (page 17)**

> **TIPS**
>
> • While a tablet device is sending files to the host, other tablet devices cannot send files to the same host.

Computer operation

■ Files sent using "Paste on Current Sheet"

• Images received from a tablet device are pasted to the Pen Software whiteboard.

■ Files sent using "Send to Pen Software"

• When data is received from a tablet device, "Import images" ( ) in Pen Software (whiteboard mode) flashes.
• Tapping "Import images" imports the data.

> **TIPS**
>
> • Refer to "Importing a Document as an Image (Pen Software Printer Driver)" in the Pen Software Operation Manual.
>
> • You can also import data by tapping "Import Sent Image/File" in the tablet device menu.

■ Files sent using "Send to Folder"

• Tapping [Open Receive Folder] in the Host menu opens the folder where files received from tablet devices are stored.
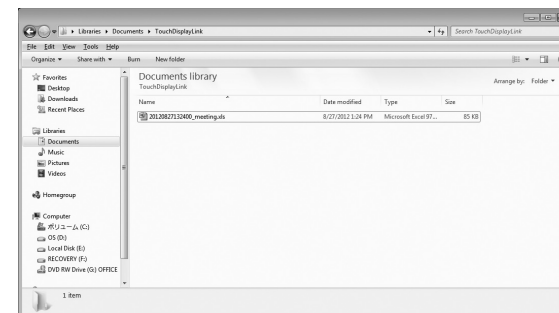
Selecting files to send from a tablet device

■ Selecting images

You can send image files to the host.

1. **From the Send File screen, tap [Open menu] and then tap [Select Image].**

2. **Select images.**

   If using an Android device, select images from "Gallery".
   If using an iOS device, select images from "Photos".
   Image previews are displayed for JPEG and PNG files. For other image files,

   an icon is displayed. (page 17)

   TIPS

   • For details on selecting images, refer to the tablet device manual.

■ Camera

You can send image data captured with the camera to the host.

1. **From the Send File screen, tap [Open menu] and then [Camera].**

   Camera is started.
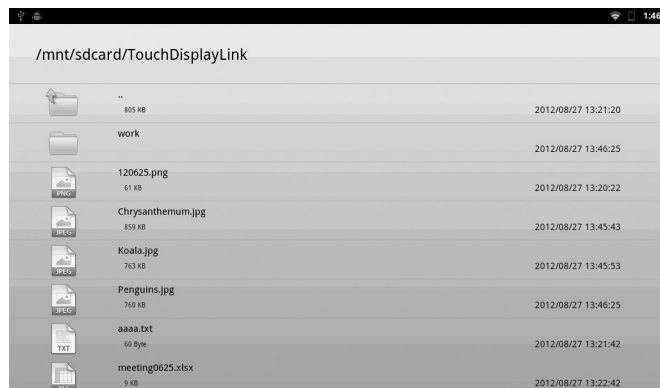   Captured images are displayed in the preview area. (page 17)

   TIPS

   • For details on camera operation, refer to the tablet device manual.

■ Selecting files

You can send files saved on a tablet device to the host.

1. **From the Send File screen, tap [Open menu] and then [Select File].**

    A list of files appears.

2. **Select files.**

    - Tapping a folder ( ) displays a list of the files in the folder in question.

      Tapping displays a list of files in the folder above the current folder.

      (Above functions only available on Android devices.)

    - When an image file (JPEG or PNG) is selected, an image preview is displayed. (page 17)
    - When an image file (except for a JPEG or PNG) or non-image file is selected, a file icon is displayed in the preview display area. (page 17)
    - If the file extension is not recognized by the tablet device, the default icon ( ) is displayed. (page 17)

Sending selected files

When files to be sent are selected, a preview screen is displayed.

1. **Tap [Open menu].**

2. **Select a transfer method and send the files.**

   (1) Paste on Current Sheet
   The selected images are pasted to the current sheet of the whiteboard in Pen Software.

   (2) Send to Pen Software
   Imports selected files as images just like those printed on a printer to the whiteboard in Pen Software.

   (3) Send to Folder
   Sends and saves selected files to a specified host folder.

* The method by which a file can be sent differs according to file type.

Paste on Current Sheet	JPEG (.jpe, .jpeg, .jpg), PNG (.png)
Send to Pen Software	JPEG (.jpe, .jpeg, .jpg), PNG (.png), TIFF (.tif, .tiff), PDF (.pdf)*1, Excel (.xls, .xlsx)*2, Word (.doc, .docx)*2, PowerPoint (.ppt, .pptx)*2
Send to Folder	All types (It is not possible to send certain file types.)

*1:Requires that Adobe Reader is installed on the host.

*2:Requires that Microsoft Office is installed on the host.
  Password-Protected Files and macro-enabled files will not work correctly.

TIPS

- When the image displayed on the preview screen is flicked up, it can be sent using "Paste on Current Sheet".

- When the shake to send checkbox is selected, hold your tablet with both hands and gently tilt back and forth several times in a fanning motion to send files.
  *Take care not to drop the tablet device.

- Files cannot be sent if the "Accept file" check box on the host is not selected.

- Pen Software may operate slowly if high-resolution images are used.

- When sending PDF files to Pen Software, ensure that the Adobe Reader license agreement and dialog is not displayed. If they are displayed, the application will not function correctly.

CAUTION

- Do not change the name of "Send print data to SHARP Pen Software" in "Devices and Printers". If the name is changed, the application will not function correctly.

Sharing screen display

When joining conference and screen sharing is allowed on the host, you can display the host screen on tablet device screens.

1. **On the main screen on the tablet device, tap [Screen Sharing].**

   The monitor screen is displayed on tablet devices.
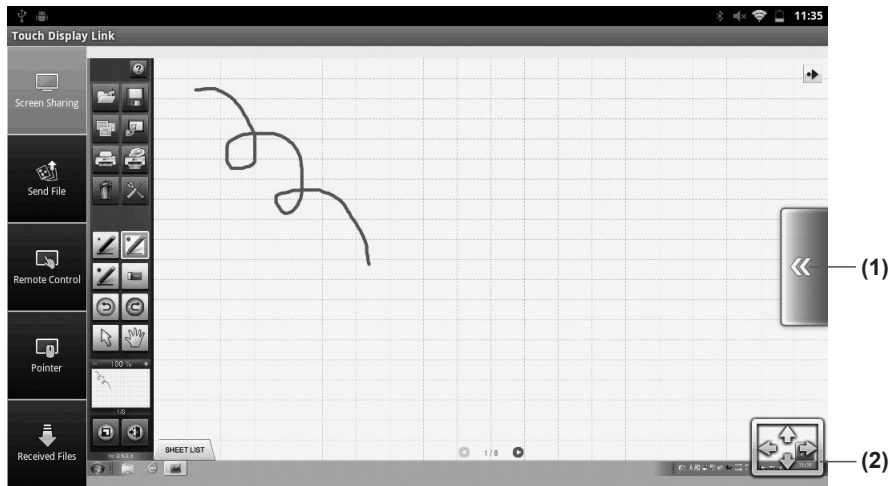
   You can zoom in or out by pinching in or out.
   You can scroll by dragging.

   (1) Open/Close menu
   Shows/hides the Screen Sharing screen menu.

   (2) Fit to Screen
   Returns the screen from an enlarged or reduced state to its normal size.
   The entire screen is displayed maintaining its aspect ratio.

   • If "Stop Screen Sharing" is selected in the Host menu on the host, screen display is not synchronized.

Tapping [Open menu] on the Screen Sharing screen enables operations like those below.
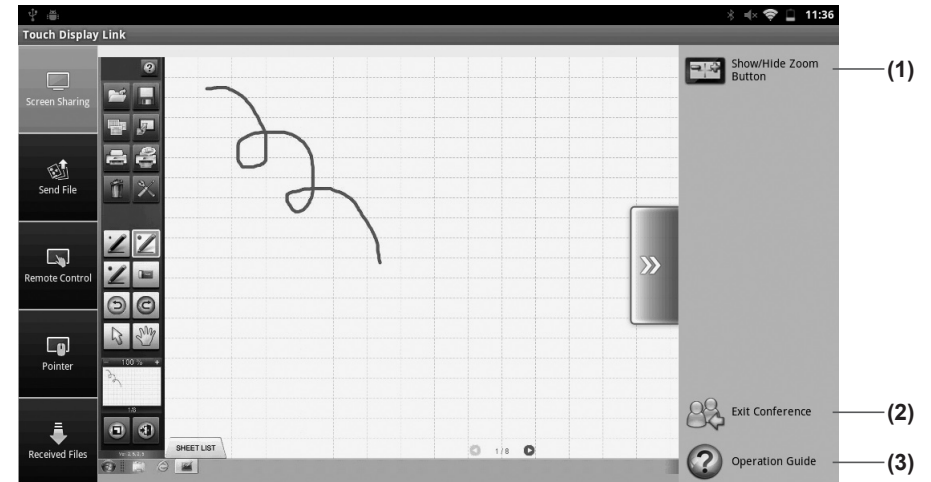
(1) Show/Hide Zoom Button
Shows/hides the [Enlarge screen] and [Reduce screen] buttons.

(2) Join Conference/Exit Conference
To end the connection with the host without exiting the application, tap [Exit Conference].
To reconnect, tap [Join Conference] again and select a host to connect to. (page 6)

(3) Operation Guide
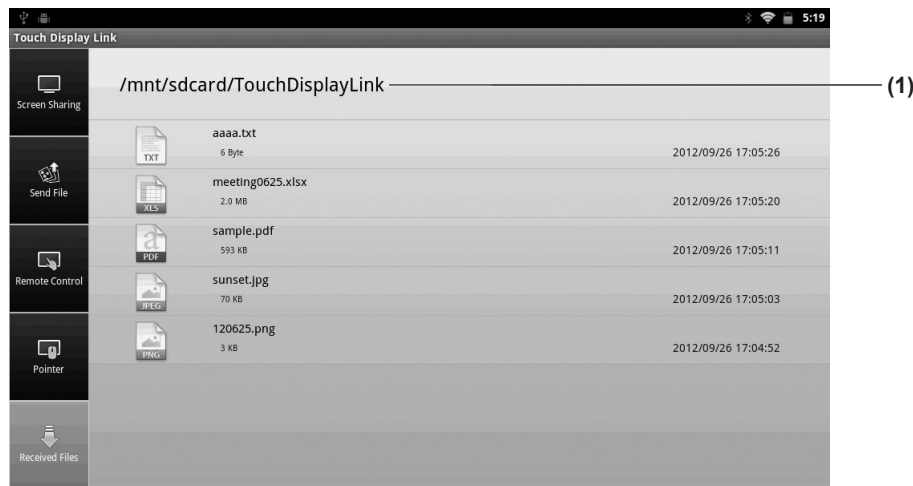Displays operation guides. (page 22)

Operating files

You can operate files received from the host.
On Android devices you operate files in the Downloads folder on the SD card.
On iOS devices you operate files saved on the device's own memory.

1. **On the main screen on the tablet device, tap [Received Files].**

   A list of files received from the host appears.

(1) **Current folder display area**
   Displays the directory path of the file.

2. **Select file.**
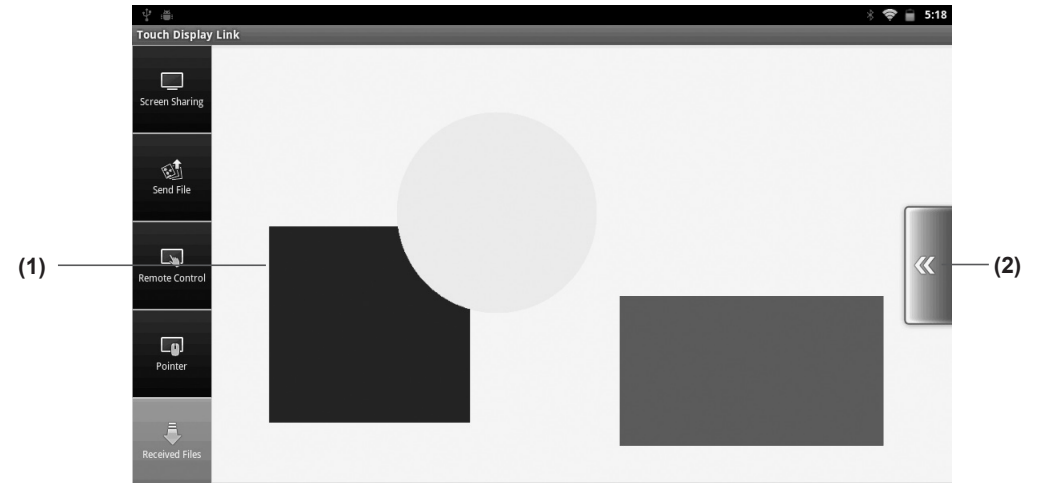
(1) **Preview area**
   The area where a preview of the selected file is displayed.
   Zoom in or out by pinching in or out.
   If previews cannot be displayed, an icon image for each type of data is displayed.
   Android devices can display previews of JPEG and PNG files.
   iOS devices can display previews of JPEG, PNG, TIFF, PDF, Excel (.xls/.xlsx), Word (.doc/.docx), and PowerPoint (.ppt/.pptx) files. (Layouts may not be displayed correctly.)

(2) **Open/Close menu**
   Shows/hides the Preview screen menu. (page 20)

3. Tap [Open menu].

The file operation menu appears.

(1) Send by e-mail

Attaches the selected files to an e-mail. (See instructions on right.)

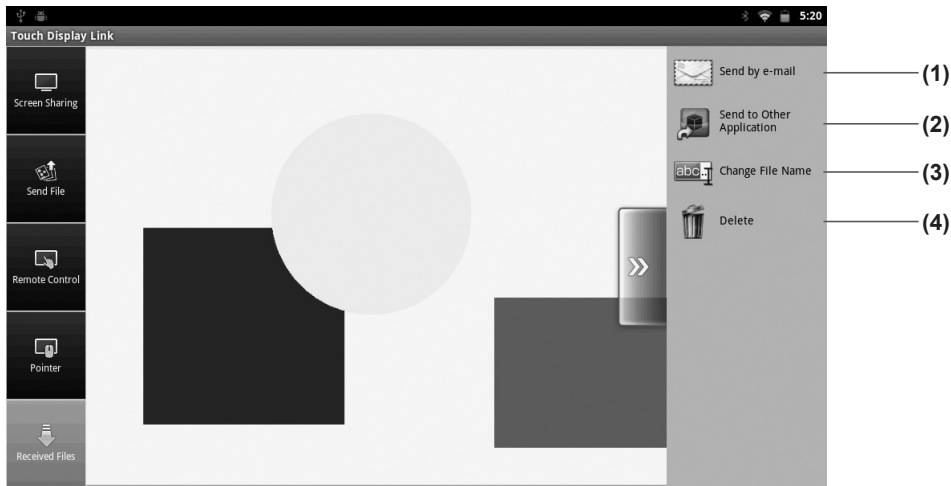**(2) Send to Other Application**

Displays the selected files in the specified application. (page 21)

(3) Change File Name

Edits the name of the selected file. (page 21)

(4) Delete

Deletes selected files (page 21)

■ Sending files by e-mail

You can send a selected file as an e-mail attachment.
The e-mail application installed on the tablet device is started up.

1. From the file operation screen, tap [Open menu] and then tap [Send by e-mail].
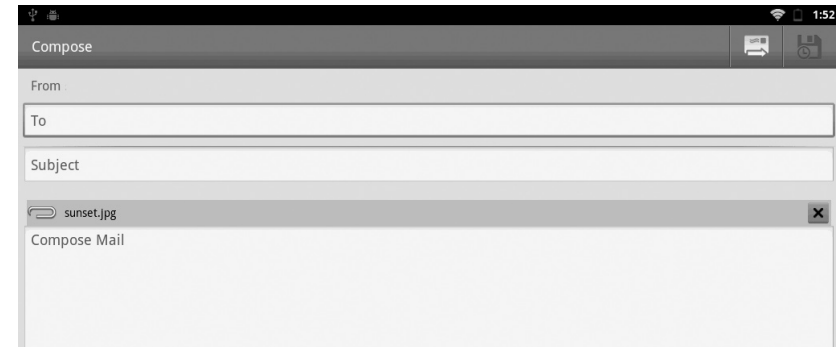
2. Enter the necessary details and send the e-mail.

For details on sending e-mail, refer to the tablet device manual.

TIPS

• If several applications are installed, a message prompting you to select an application may appear.

■ Sending files to an application

You can open the selected file in an application.

1. **From the file operation screen, tap [Open menu] and then tap [Send to Other Application].**

   If the file can be opened in multiple applications, a message saying prompting you to select an application may appear.
   Select an application.

■ Editing file names

You can edit the name of the selected file.

1. **From the file operation screen, tap [Open menu] and then [Change File Name].**

2. **Edit the name of the file in the file name entry field.**

3. **Tap [Yes].**

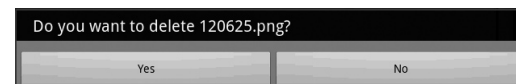## ■ Deleting files

You can delete the selected files.

1. **From the file operation screen, tap [Open menu] and then [Delete].**
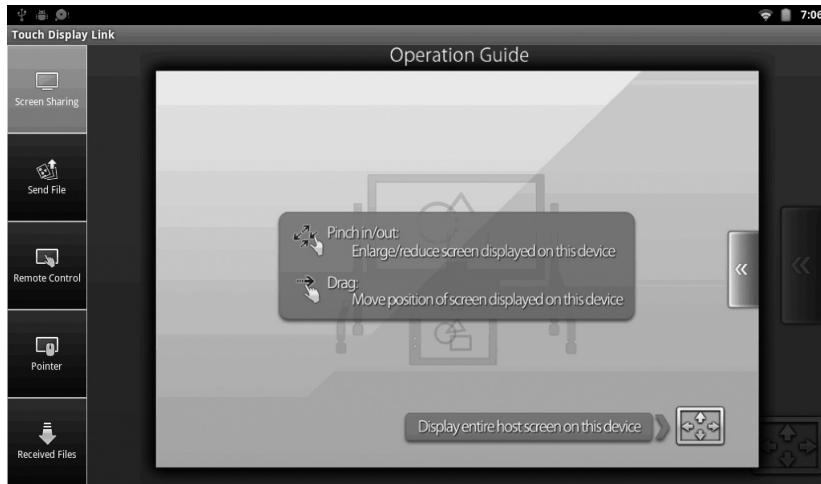

2. **Tap [Yes].**

Viewing Operation Guide

You can display operation guides.

1. **Tap [Open menu].**

2. **Tap [Operation Guide].**

To hide the operation guide, tap the screen.

Configuring host settings

You can configure a variety of settings including those for the host name, communications, security, and action when a file is received.

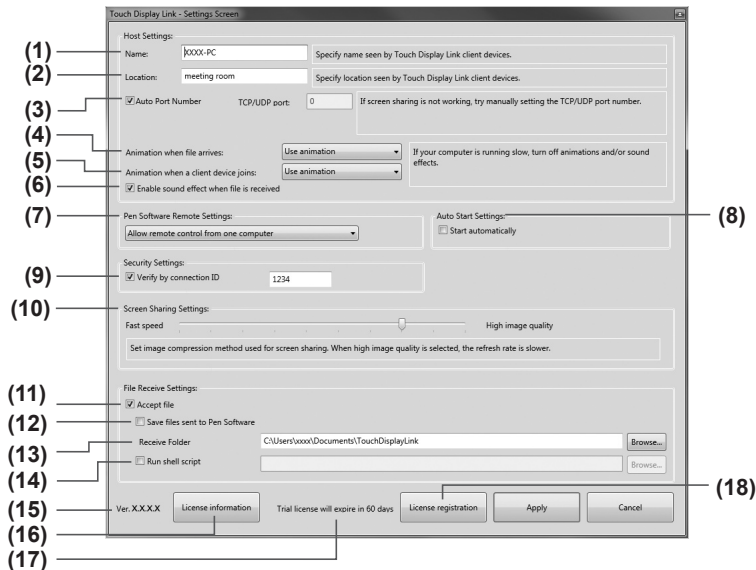
TIPS

- Before adjusting these settings, consult the network administrator.

1. **Tap the [Show host menu tag] on the desktop.**

   The Host menu appears.

2. **Tap [Settings].**

   The settings screen appears.

The following settings can be configured from the settings screen:

(1) Name

Sets the name of the host. (Up to 50 half-/full-width characters)
This name is displayed on the tablet device when logging in.

(2) Location

Sets the location of the host. (Up to 50 half-/full-width characters)
Content entered here is displayed on the tablet device login screen.

(3) Auto Port Number

TCP/UDP port:
Sets port number used for communication.
You should normally select the "Auto Port Number" check box. This automatically sets the port number.
To set an arbitrary port number, clear the "Auto Port Number" check box, and enter a port number (from 0 to 65535) in the "TCP/UDP port" box.

(4) Animation when file arrives

Selects whether to use animation when a file is received.

(5) Animation when a client device joins

Selects whether to use animation when a user joins a meeting.
If the computer is slow, select "Do not use animation".

(6) Enable sound effect when file is received

Select this option if you want a sound effect to be played when a file is received.

(7) Pen Software Remote Settings

Allow remote control from multiple computers
Multiple tablet devices can be used for remote operation at the same time.
Allow remote control from one computer
Only the tablet device that has obtained operation permission can be used for remote operation.
Do not allow remote control
Remote operation from a tablet device is disabled.

(8) Start automatically

Select this check box to start Touch Display Link when the computer starts up.

(9) Verify by connection ID

Limits tablet devices that can connect.
To verify tablet devices by conference connection ID, select the "Verify by connection ID" check box, and set the conference connection ID. (Up to 8 half-width alphanumeric characters)

(10) Screen Sharing Settings

Adjusts whether to give priority to speed (low image quality) or image quality (slow speed) when screen sharing.
Drag the slider in either direction to adjust.

(11) Accept file

Clear this check box if you want to prevent tablet devices from sending files to the host.

(12) Save files sent to Pen Software

Select this check box to save files sent from a tablet device to the host using "Paste on Current Sheet" or "Send to Pen Software".

If this check box is selected, files are saved in the folder specified in "Receive Folder".

(13) Receive Folder

Specifies the host folder in which to save received files when sending a file using "Send to Folder".

(14) Run shell script

Sets whether to run a shell script on received files.

To run a shell script, select the "Run shell script" check box, and select a script.

The number of characters in the file path and file name may differ depending on the type of computer used.

For details, refer to the computer manual.

(15) Version

Shows the software version.

(16) License information

Shows software license information.

(17) Remaining number of days in trial period

Shows the number of days of the trial period remaining if the software is registered with a trial license.

(18) License registration

To officially register software that has already been registered with a trial license, enter a license code.

3. **Tap [Apply].**

TIPS

- To cancel settings and close the settings screen, tap [Cancel] or .

Exiting the application

Computer

1. **Tap the [Show host menu tag] on the desktop.**

   The Host menu appears.

2. **Tap [Exit].**

Android device

1. **Press the [Back] key twice.**

iOS device

1. **Press the [Home] key.**

2. **Press the [Home] key on the Home screen twice.**

   A list of currently running applications appears at the bottom of the screen.

3. **Long-press "TDLink".**

   The icon vibrates.

4. **Tap [-] at the top left.**

Uninstalling the software

Computer

Ensure you are logged in with administrator privileges.

1. **Exit all application software.**

2. **From the "Start" menu, select "Control Panel".**

3. **Tap "Uninstall a program".**

   In icon display mode (classic view), double-tap "Programs and Features".

4. **Select [Touch Display Link] and then tap [Uninstall].**

5. **Follow the instructions on the screen.**

   If a User Account Control window appears, tap [Continue].

This completes the uninstallation process.

Android device

1. **Press the [Menu] key, and then tap [Settings], [Applications], and [Manage applications].**

2. **In the list of applications, tap [Touch Display Link].**

3. **Tap [Uninstall].**

iOS device

1. **Long-press [TDLink].**

   The icon vibrates.

2. **Tap the black [x] at the top left.**

   A confirmation dialog appears.

3. **Tap [Delete].**

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