

Intelligent Wireless Data App Operating Guide

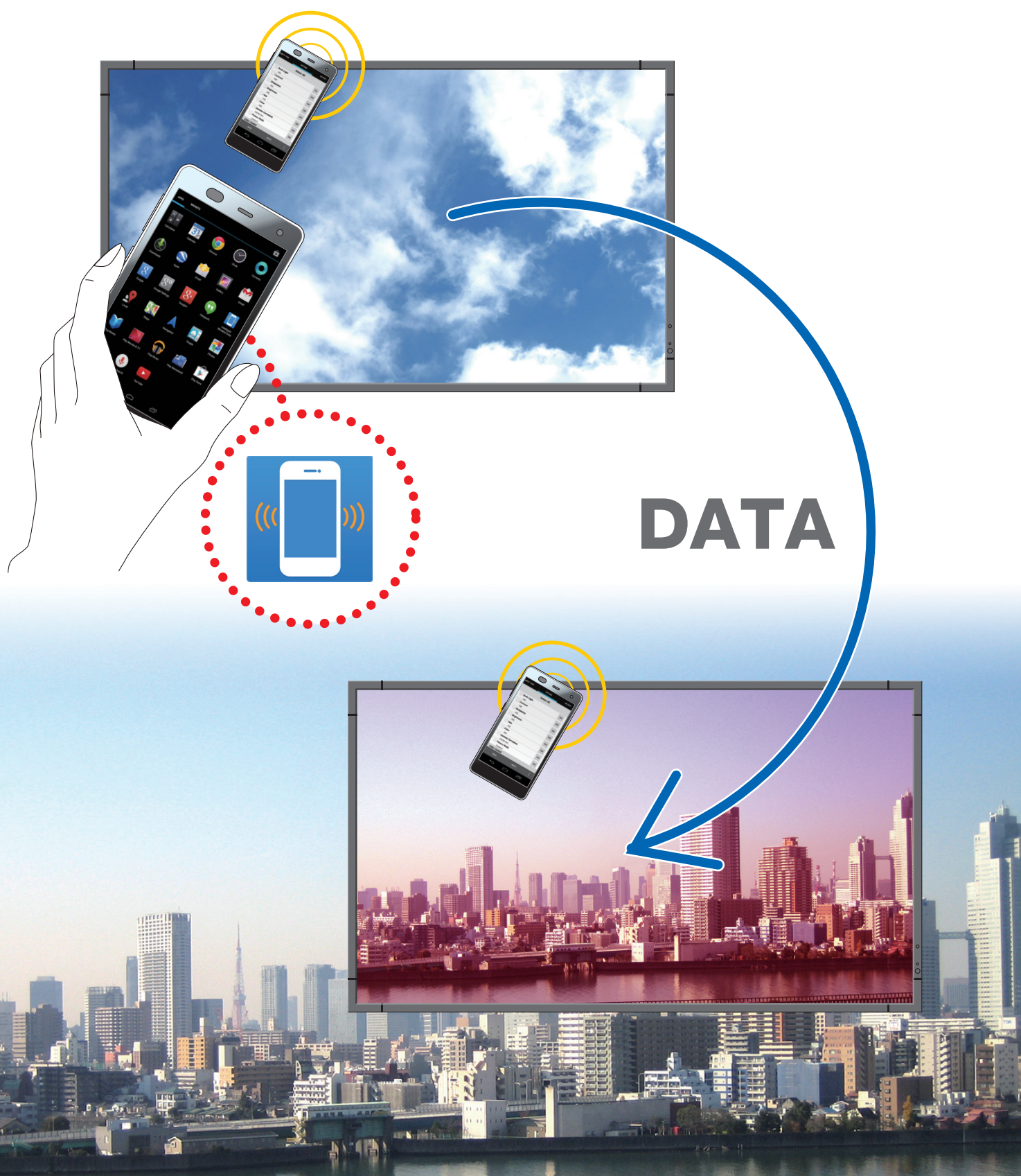


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Overview

Introduction

Intelligent Wireless Data App is an application software for reading and writing adjustment values and setting values using the Intelligent Wireless Data sensor of a display and a terminal equipped with a NFC sensor (smartphone or tablet PC).

This manual explains the basic operations of the Intelligent Wireless Data App (Version 1.0.1).

Reference: In this manual, the Android 4.2 screen is used as an example.

Operating Conditions

Supported OS	Android 2.3 or later
Supported Terminals	Terminals that are equipped with NFC-Vfunctions
Supported Displays	Display that is equipped with the Intelligent Wireless Data function Please refer to our company's web site for details.

How to Install

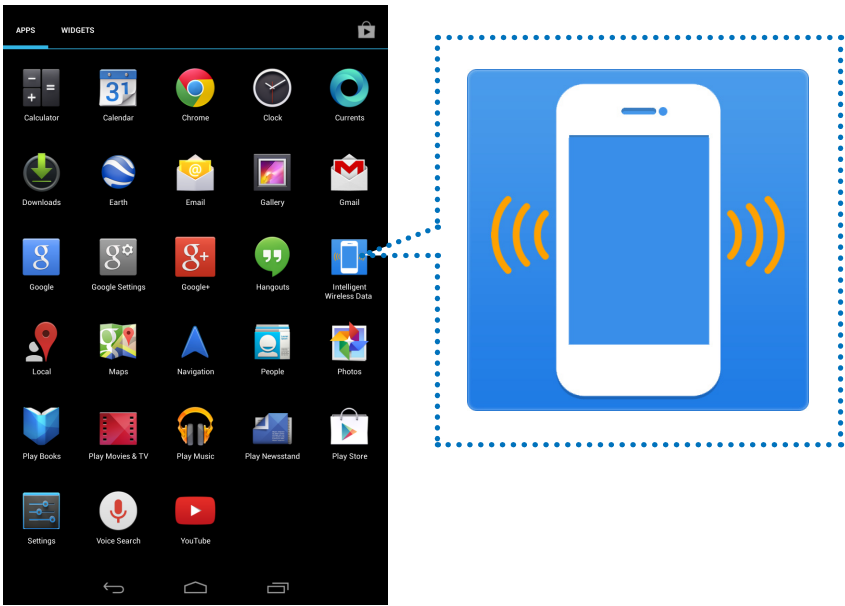
Search for Intelligent Wireless Data App from Google Play and then download and install the app in the terminal.



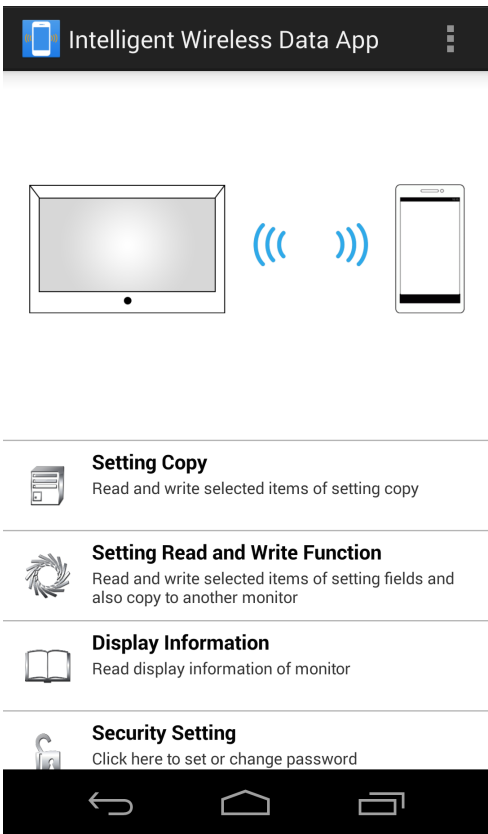
<https://play.google.com/store/apps/details?id=com.necdisplay.IntlWirelessDataApp>

Starting the application

1. Tab the “Intelligent Wireless Data App” icon displayed in the list of applications.



2. The main screen of the Intelligent Wireless Data App will be displayed.



Notes

Pre-settings of the display

1. Check the OSD settings of the display.

“ADVANCED OPTION2” — “INTELLI.WIRELESS DATA” : ON

Performed the following settings as well when writing adjustment and setting values with the display in the standby state.

“EXTERNAL CONTROL” — “LAN POWER” : OFF

“ADVANCED OPTION1” - “INPUT DETECT” : NONE

“ADVANCED OPTION1” - “OPTION SETTING” - “OPTION POWER” : OFF

2. Put the display on standby, or switch off the main power supply.

Terminal Pre-Settings

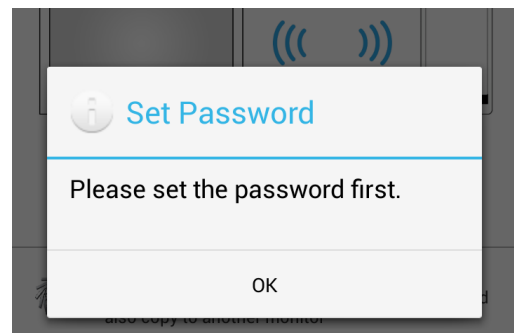
- Validate the NFC functions of the terminal.

Example) Check “Setting” — “Wireless & Network” — “Other...” — “NFC” .

- Set the password (4 numerical digits) to be the same as the password of the Intelligent Wireless Data sensor in “Set Password” under “Security Setting” in the Intelligent Wireless Data App.

Refer to the instruction manual of the display for the default password of the Intelligent Wireless Data sensor.

If communication is carried out without setting the password, the message “Please set the password first.” will be displayed. Press OK to transit to the settings screen.

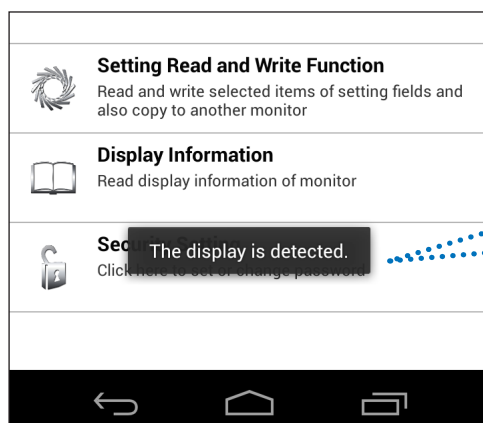


Communication with the Intelligent Wireless Data sensor

Bring the terminal close to the Intelligent Wireless Data sensor and check the position at the bottom of the application screen where the message “The display is detected.” appears.

Reference:

- The installation location of the Intelligent Wireless Data sensor varies depending on the display. Please refer to the instruction manual of the display for more information.
- The installation location of the NFC sensor varies depending on the sensor. Please refer to the instruction manual of the terminal for more information.



The display is detected.

Please perform read and write operations at the position where this message is displayed.

Flow of Operation



To read/write an adjustment value/setting value of the display, bring the terminal close to the Intelligent Wireless Data sensor of the display and press the READ / WRITE button of the application.

The message "Sensor is not close to the device or NFC is disabled." is displayed when the Intelligent Wireless Data sensor cannot be detected. Move the terminal and check that the message "The display is detected." appears at the bottom of the application screen before using the terminal.

● Read / Write

After reading and editing the setting value/adjustment value of the display in the application, write the value to the display.



● Copy Setting

Read the adjustment value/setting value of a single display and write it to other displays.



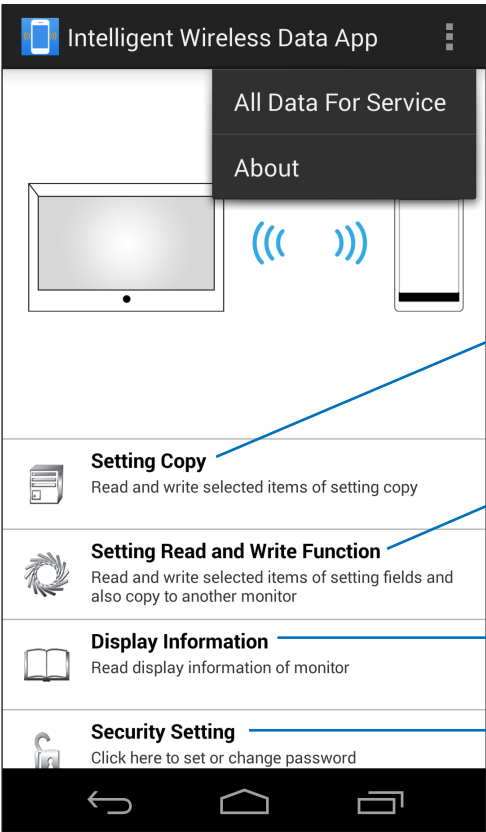
[Precautions when reading and writing]

- Please perform reading or writing with the display in a standby state or the main power switched off.
- Before communication with the display, move the terminal to the position where the message "The display is detected." is displayed and perform reading and writing at that position.
- To communicate with the display, a password (4 numerical digits) similar to the password of the Intelligent Wireless Data sensor needs to be registered.
- All items whose check boxes are ticked will be read. Items to be written are those which are enabled and whose check boxes have been ticked. Disabled items will not be written even if their check boxes are ticked.

Names and functions of the various parts of the screen

Main Screen

This is the main screen of the application.



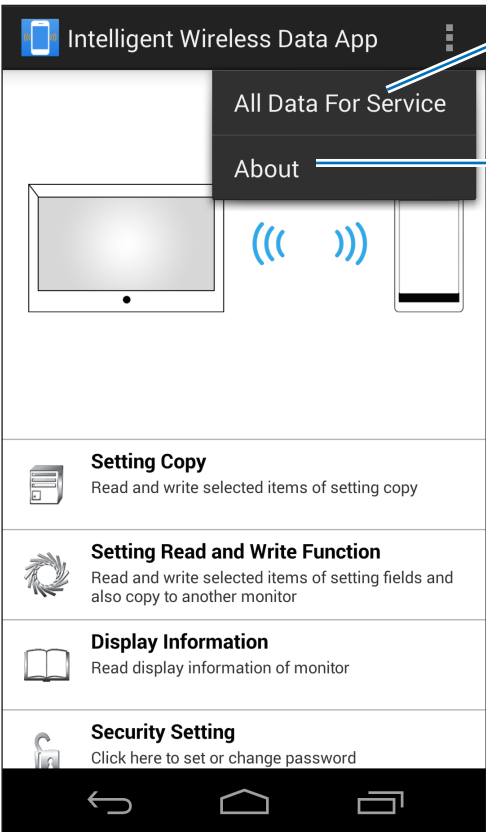
The screenshot shows the 'Intelligent Wireless Data App' interface. A menu is open, displaying 'All Data For Service' and 'About'. Below the menu, there are icons for a monitor, wireless signals, and a smartphone. The main screen features four settings sections: 'Setting Copy' (with a floppy disk icon), 'Setting Read and Write Function' (with a circular arrow icon), 'Display Information' (with a book icon), and 'Security Setting' (with a lock icon). Each section has a brief description of its function. Blue lines connect the text labels on the right to the corresponding UI elements on the screen.

Setting Copy
Function to select and read/write the item to be copied using the setting copy function of the display.

Setting Read and Write Function
Function to read/write the adjustment value/setting value of the display.

Display Information
Reads and displays the display information.

Security Setting
Sets the password for communicating with the display.



This screenshot is similar to the first one, but the menu is open to the 'All Data For Service' option. The 'About' option is also visible. The same settings sections are present at the bottom. Blue lines connect the text labels on the right to the 'All Data For Service' and 'About' menu items.

All Data For Service
Fault diagnosis function.

About
Version Information.

Setting Copy Screen

Select the category to copy and then perform read/write in this screen just like the setting copy function of the display.

Check box
Select the items you want to read or write.

Operation button
Displays the setting in each category.
Refer to "Setting Read and Write Function Screen" on the next page for the setting method.

Number of selected items
The number of items selected in each category is displayed.

READ
Reads the data in the selected category from the display.

WRITE
Writes the data in the selected category to the display.

Intelligent Wireless Data App	
Setting Copy	
Deselect All	
☐	INPUT TYPE
☒	0/1
☒	18/18
☒	9/9
☒	9/9
☒	5/5
☒	12/12
☒	9/9
☒	9/14

WRITE || READ

[Notes]

- The differences with the setting copy function of the display are as follows.
 - * Each input terminal setting can not copy everything. Only the setting of the input terminal selected using INPUT TYPE can be copied.
 - * "ENABLE" is also copied together with "MULTI DISPLAY" - "TILE MATRIX" - "TILE COMP".
 - * The HTTP server settings of the display cannot be read or written.

Reference:

- The setting value will be initialized upon selecting the category in the Setting Copy screen.
- Refer to the Instruction Manual of the display for the setting copy target items.

Setting Read and Write Function Screen

Reads or writes the adjustment value/setting value of the display in this screen.
Refer to the instruction manual of the display for detailed information on the various items (various options of the OSD function).

- Reference:
- The operation is the same even when the screen is switched from the Setting Copy screen.
 - The check status and adjustment value/setting value of each item is stored individually in the respective Setting Read and Write Function screen and the screen switched from the Setting Copy screen.
 - Some items will not be displayed on OSD depending on the display.

AUDIO

SCHEDULE

PIP

Setting Read and Write Function

Select All

Off Timer

☐ Off Timer

OFF

OFF

☐ Hour

1

Set

Schedule Settings

☐ Schedule Settings

Schedule1

Schedule2

Schedule3

Schedule4

WRITE

||

READ

|

READ ALL

WRITE

Writes data of the selected item to the display.

READ

Reads data of the selected item from the display.

READ ALL

Reads data of all items including those that have not been selected from the display.

Check box
Select the items you want to read or write.

AUDIO

SCHEDULE

PIP

Setting Read and Write Function

Select All

Off Timer

☐ Off Timer

OFF

OFF

☐ Hour

1

Set

Schedule Settings

☐ Schedule Settings

Schedule1

Schedule2

Schedule3

Schedule4

WRITE

||

READ

|

READ ALL

Tab

Item has been placed in a category similar to the menu composition of OSD .

Operation Buttons

Displays the adjustment screen and options for each item. There are different types of push buttons, toggle buttons, etc. available.

Things to note when changing the INPUT TYPE

When changing the INPUT TYPE, please reset the items in the following table as well.

If writing is performed without reconfiguring the settings again, the settings before the INPUT TYPE was changed may be reflected in the display.

Tab	Item
PICTURE	BACKLIGHT
	CONTRAST
	SHARPNESS
	BRIGHTNESS
	HUE
	COLOR
	COLOR TEMPERATURE
	COLOR CONTROL
	GAMMA CORRECTION
	MOVIE SETTINGS
ADJUST	AUTO ADJUST
	ASPECT
AUDIO	VOLUME
	TREBLE
	BASS
	AUDIO INPUT
PIP	ASPECT
OSD	INPUT NAME
MULTI DISPLAY	TILE MATRIX (When TILE MATRIX MEM = INPUT)
DISPLAY PROTECTION	SIDE BORDER COLOR
ADVANCED OPTION1	DEINTERLACE
	COLOR SYSTEM
	OVERSCAN
	120 Hz
ADVANCED OPTION2	AUTO DIMMING (Except HUMAN SENSING)

Display Information Screen

Reads and displays the information of the display in this screen.

DISPLAY INFORMATION

Information

Model Name

P403

Serial Number

38S00020NA

Manufactured Date

34th week in 2013

Address

Mac Address

00-00-00-00-00-00-00

READ

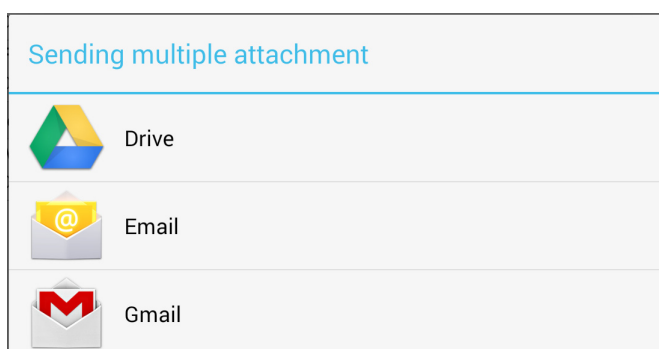
SHARE

READ

Reads information such as the Model Name etc. from the display.

SHARE

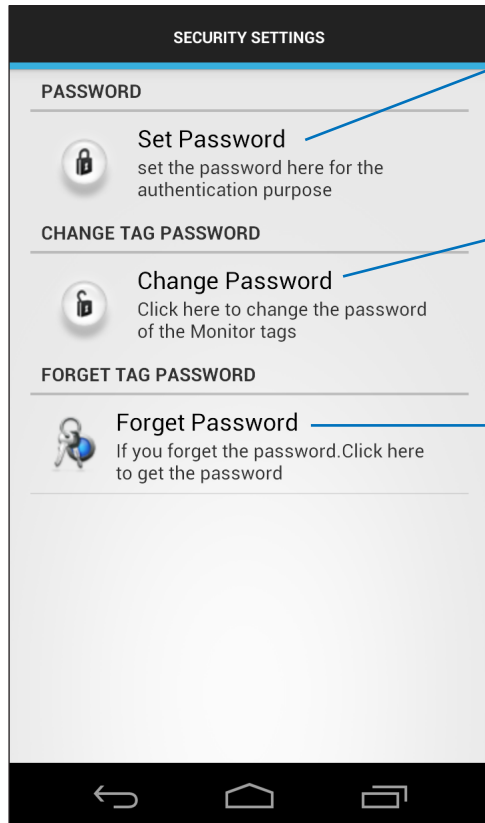
Read information can be shared as an attachment file or sent using a mail application etc.



Security Setting Screen

Registers the application password for communicating with the display, or for editing the password of the Intelligent Wireless Data sensor in this screen.

The initial password of the Intelligent Wireless Data sensor is set to "0000".



Set Password

Registers the application password to be used when communicating with the display

Number of characters that can be input: 4 numerical digits

Change Password

Changes the password registered in the Intelligent Wireless Data sensor. The password that is registered with the application can also be changed at the same time.

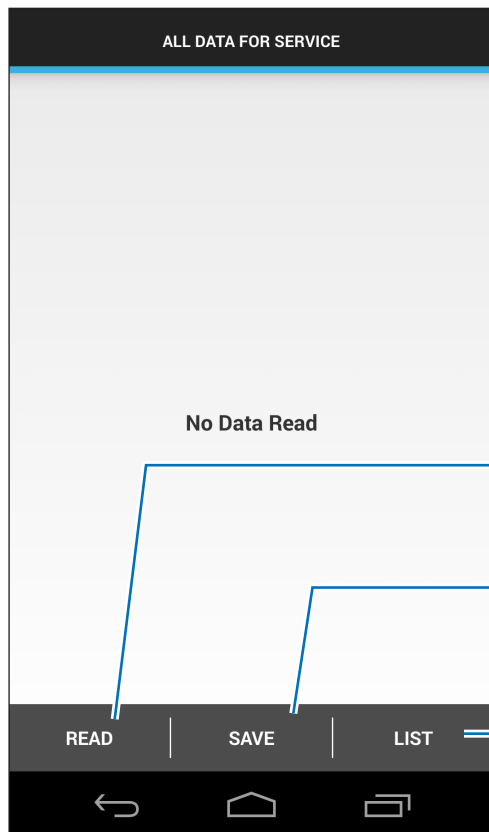
Number of characters that can be input: 4 numerical digits

Forget Password

Displays a hint in case you have forgotten your password.

All Data For Service Screen

This screen is used for fault diagnosis.



READ

Reads the display information.

SAVE

Saves the information of the display that has been read to a file.

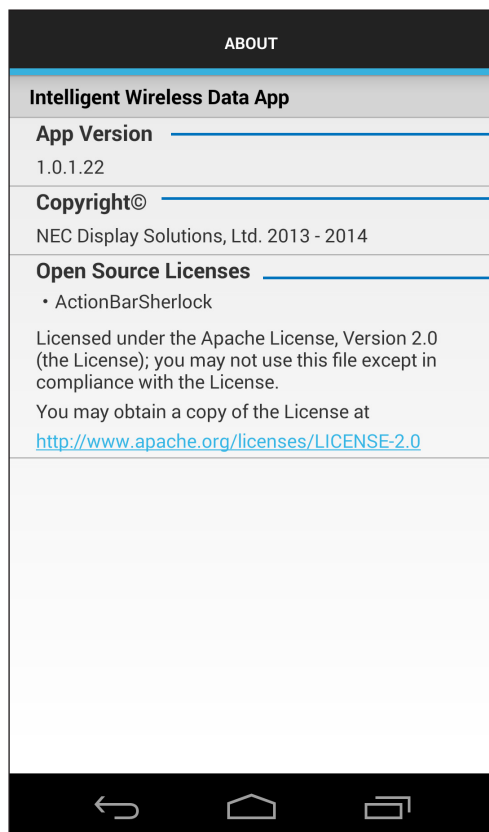
LIST

Displays a list of the files that have been saved.

When the list is displayed, press and hold for a while to delete the file or share the file as an attachment.

About Screen

This screen shows the version information etc.



App Version

Displays the version of the application.

Copyright

Displays the copyright information.

Open Source Licenses

Displays the open source license content.

About trademarks

The Android and Android logos, Google Play (old Android market) and Google Play logos, are trademarks or registered trademarks of Google Inc.

