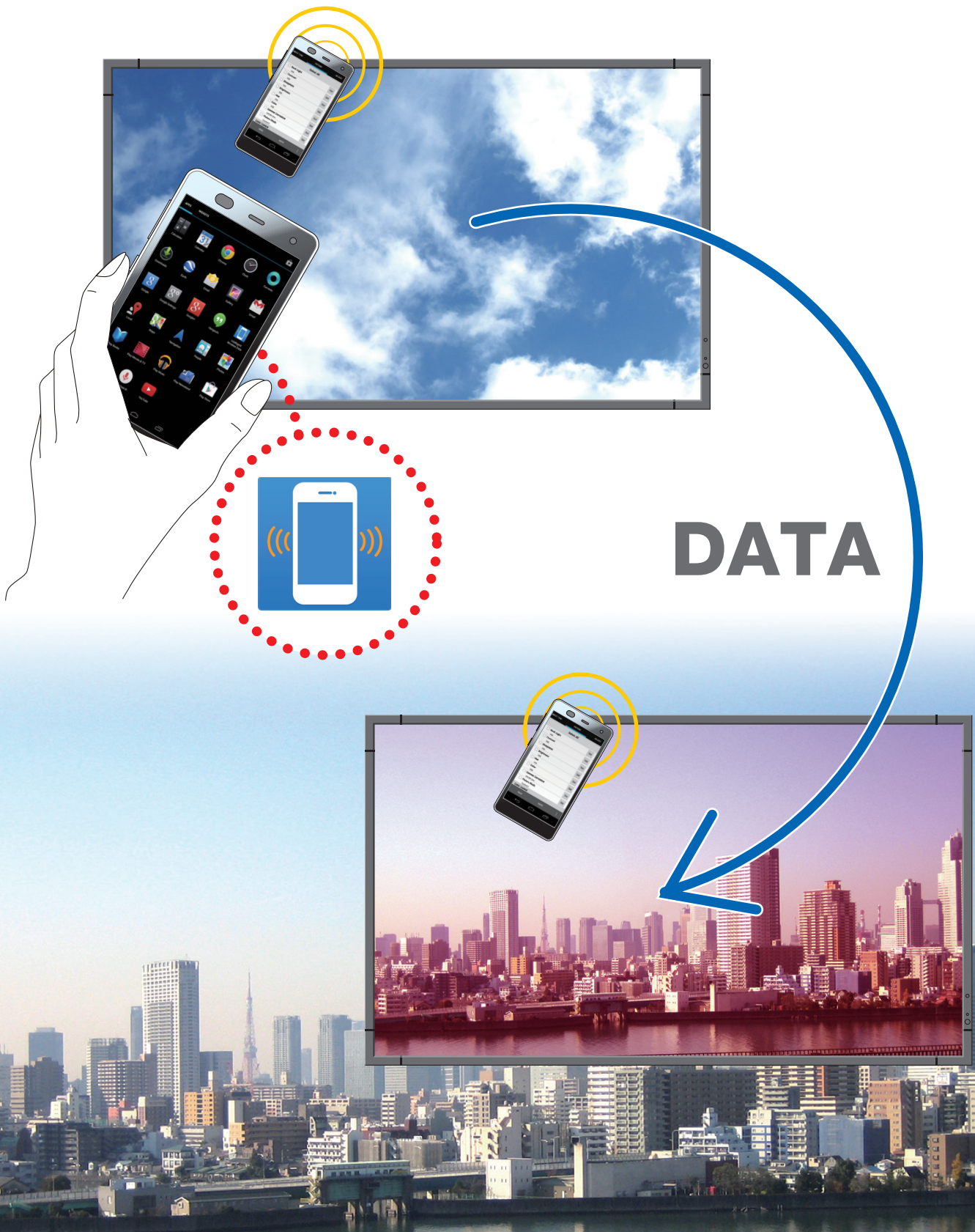


# Intelligent Wireless Data App Operating Guide



# Table of Contents

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<b>Overview</b> .....	1
Introduction .....	1
Operating Conditions .....	1
How to Install.....	1
Starting the application .....	2
Flow of Operation .....	4
<b>Names and functions of the various parts of the screen</b> .....	5
Main Screen.....	5
Select Model Name Screen.....	6
Setting Copy Screen .....	7
AUTO ID/IP SETTING screen .....	8
Setting Read and Write Function Screen .....	9
Notes .....	10
Changing the INPUT TYPE .....	10
Display Information Screen .....	11
Security Setting Screen.....	12
All Data For Service Screen.....	13
About Screen.....	14
<b>About trademarks</b> .....	15

# Overview

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## 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 1.0.9).

Reference: In this manual, the Android 5.1.1 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

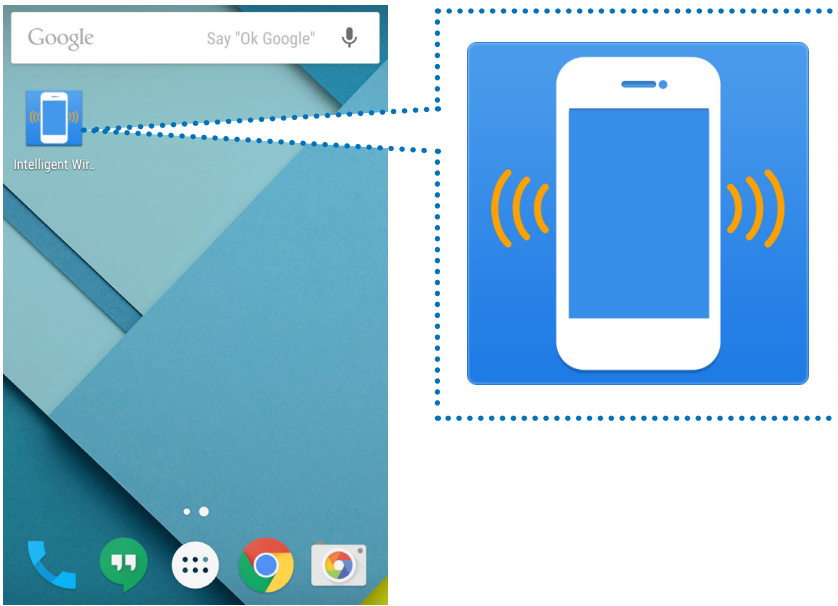
Search for Intelligent Wireless Data App from Google Play and then download and install the app in the terminal.



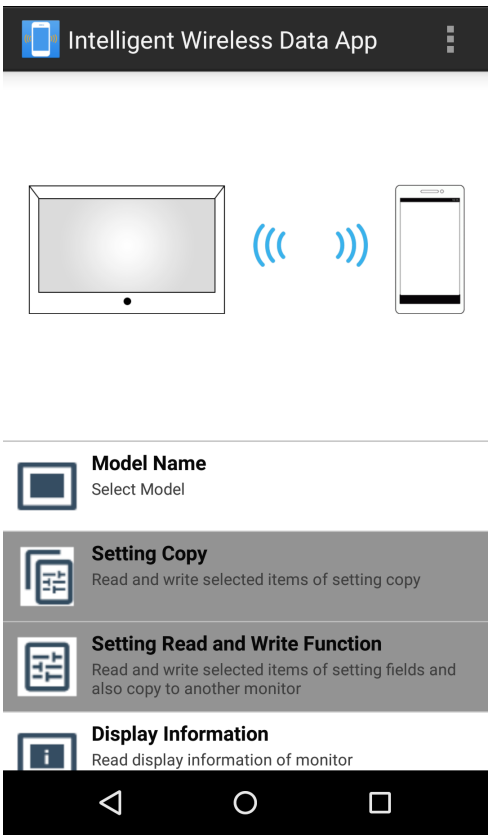
<https://play.google.com/store/apps/details?id=com.necdisplay.IntlWirelessDataApp>

# Starting the application

1. Tap 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
2. Switch off the main power supply.

### Reference:

Writing the setting value/adjustment value is possible in a standby state on some of the displays by performing the following settings.

### [The displays that support writing in a standby state]

LCD-P403 / LCD-P463 / LCD-P553 / LCD-P703 / LCD-P801 / LCD-X464UN / LCD-X464UNS / LCD-X464UNV / LCD-X474HB / LCD-X554UN / LCD-X554UNS / LCD-X554UNV / LCD-X555UNS

### [Necessary OSD Settings]

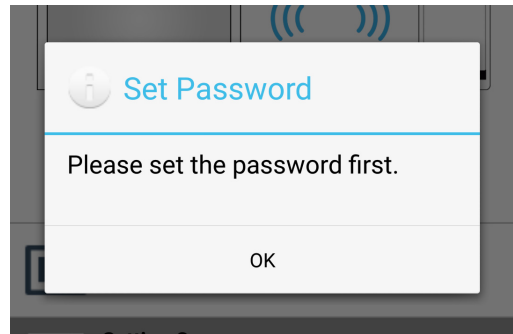
“EXTERNAL CONTROL” - “LAN POWER” : OFF  
“ADVANCED OPTION1” - “INPUT DETECT” : NONE  
“ADVANCED OPTION1” - “OPTION SETTING” - “OPTION POWER” : OFF

## 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.

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

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.

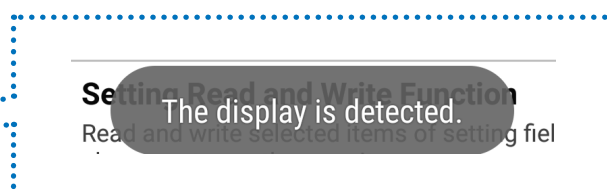
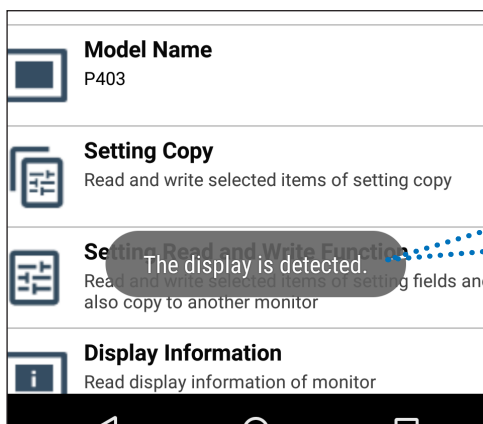


## Communication with the Intelligent Wireless Data sensor

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 terminal. Please refer to the instruction manual of the terminal for more information.



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



# Flow of Operation

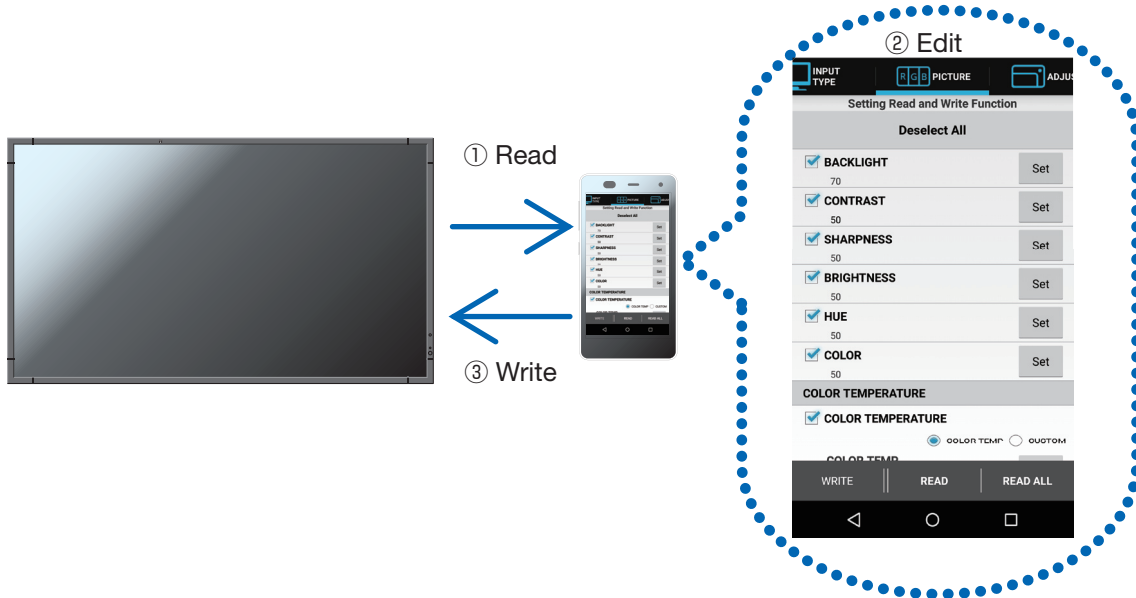


To read/write an adjustment value/setting value of the display, bring the terminal close to the Intelligent Wireless Data sensor of the display and press the READ / WRITE button of the application. Or, after pressing the READ/WRITE button of the application, bring the terminal close to the Intelligent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

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. If the READ/WRITE button is pressed first, the terminal will start reading/writing upon detection.

## ● 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.

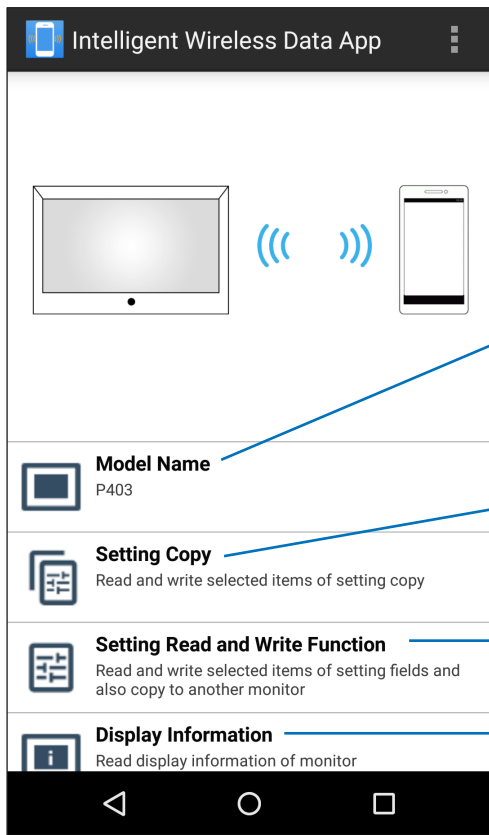


- [Precautions when reading and writing]
- Please perform reading or writing with the main power of the display switched off.
  - Before communication with the display, locate the position where the message “The display is detected.” is displayed at the bottom of the application and perform reading and 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.



### Model Name

The model selection screen appears. After selecting the model, you will be able to select the Setting Copy and the Setting Read and Write Function.

### Setting Copy

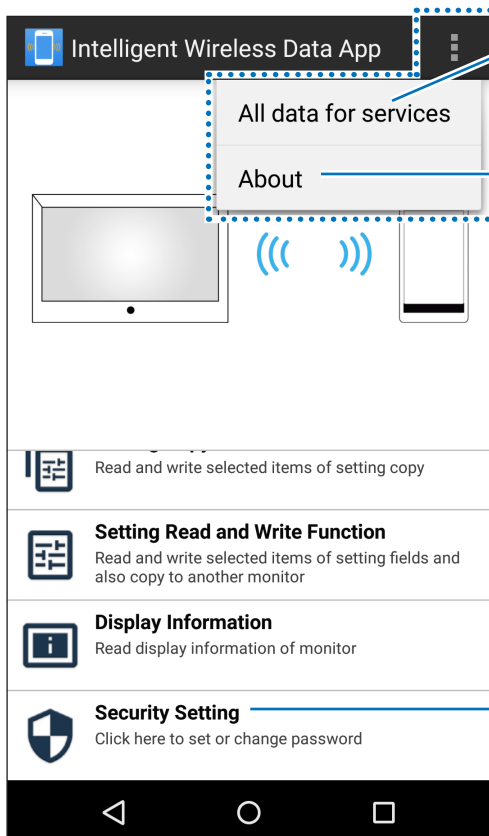
Function to select and read/write the item to be copied using the setting copy function of the display.

### 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.



### All Data For Service

Fault diagnosis function.

### About

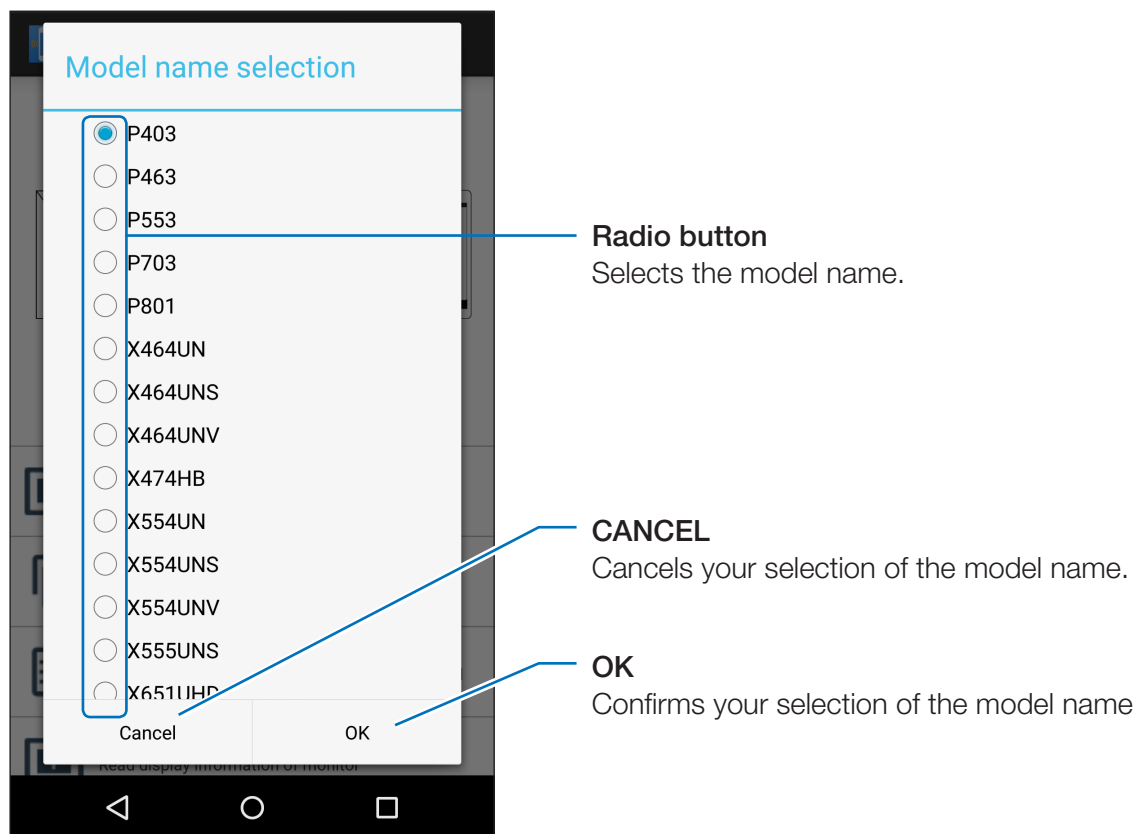
Version Information.

### Security Setting

Sets the password for communicating with the display.

## Select Model Name Screen

Selects the model name of the display.



### Reference:

- Items to be read/written are different depending on the display.



# 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. See "Setting Read and Write Function Screen" for how to configure settings.

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

**AUTO ID/IP SETTING**  
The AUTO ID/IP SETTING screen appears.

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

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

**[Notes]**

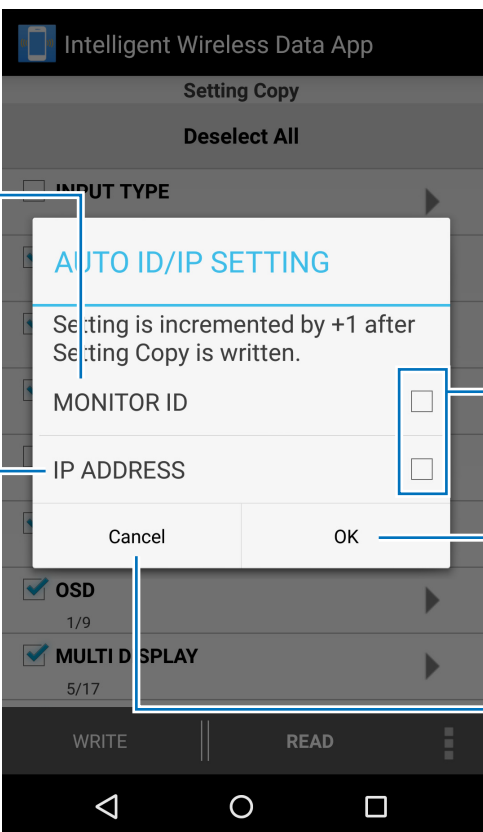
- The differences with the setting copy function of the display are as follows.
  - \* Each input terminal setting can not copy everything. Only the setting of the input terminal selected using INPUT TYPE can be copied.
  - \* "ENABLE" is also copied together with "MULTI DISPLAY" - "TILE MATRIX" - "TILE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

**Reference:**

- Refer to the Instruction Manual of the display for the setting copy target items.
- Some items are not displayed or set in OSD depending on the display.

## AUTO ID/IP SETTING screen

After writing the Setting Copy, AUTO ID/IP SETTING adds 1 to the setting value for MULTI DISPLAY → ID CONTROL → MONITOR ID, or EXTERNAL CONTROL → IP ADDRESS SETTING → IP ADDRESS. This function allows you to write a monitor ID or IP address that is connected to multiple displays.



**MONITOR ID**  
After MULTI DISPLAY - ID CONTROL - MONITOR ID has been written, 1 is added to the setting value for monitor ID.

**IP ADDRESS**  
After EXTERNAL CONTROL - IP ADDRESS SETTING - IP ADDRESS has been written, 1 is added to the setting value for IP address.

**Checkbox**  
Select items from settings to enable each function.

**OK**  
Finalizes AUTO ID/IP SETTING selection.

**Cancel**  
Cancels AUTO ID/IP SETTING selection.

### [ATTENTION]

- This function cannot be used if the MULTI DISPLAY - ID CONTROL - MONITOR ID checkbox is left unchecked or cannot be written to.
- This function cannot be used if the EXTERNAL CONTROL - IP ADDRESS SETTING - IP ADDRESS checkbox is left unchecked or cannot be written to.
- This function cannot be used when the setting values for monitor ID or IP address are at maximum, 100 and 255 respectively.
- Calculating IP address using AUTO ID/IP SETTING is possible only with the fourth octet.

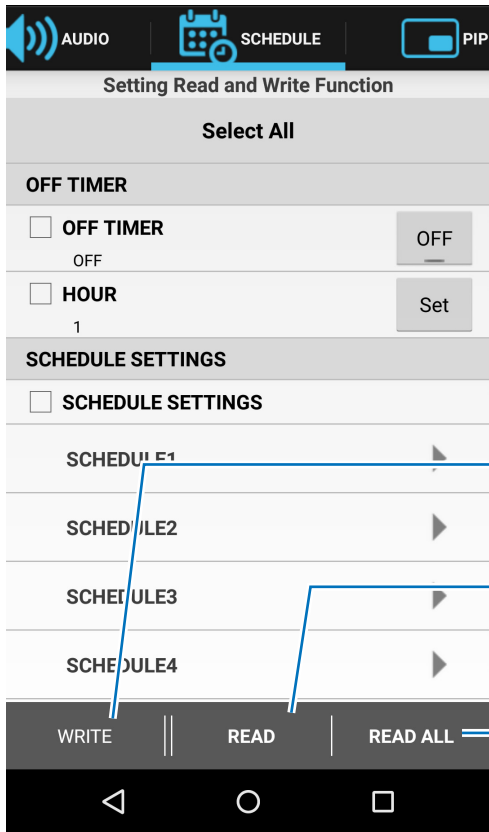
# Setting Read and Write Function Screen

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 are not displayed or set in OSD depending on the display.

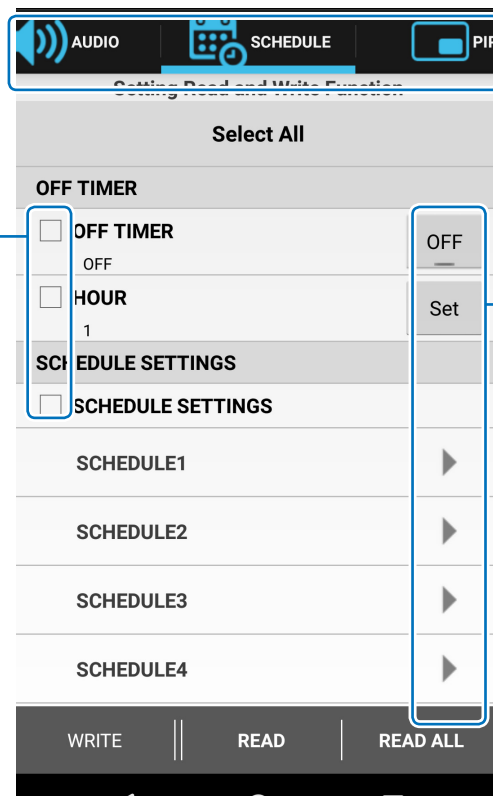


**WRITE**  
Writes data of the selected item to the display.

**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.



**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.

# Notes

## 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.

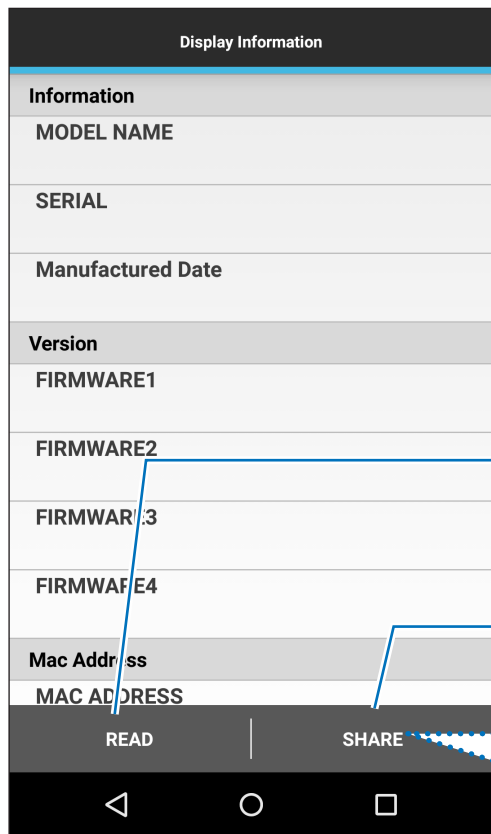
Tab	Item
PICTURE	BACKLIGHT
	CONTRAST
	SHARPNESS
	BRIGHTNESS
	HUE
	COLOR
	COLOR TEMPERATURE
	COLOR CONTROL
	GAMMA CORRECTION
	MOVIE SETTINGS
	PICTURE MODE
ADJUST	AUTO ADJUST
	ASPECT
AUDIO	VOLUME
	TREBLE
	BASS
	AUDIO INPUT
PIP	ASPECT
OSD	INPUT NAME
MULTI DISPLAY	TILE MATRIX (When TILE MATRIX MEM = INPUT)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

**Reference:**

- Changing the INPUT TYPE will initialize items on the list and all the Check boxes have been selected.
- Some items are not displayed depending on the display.

# Display Information Screen

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





## 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.

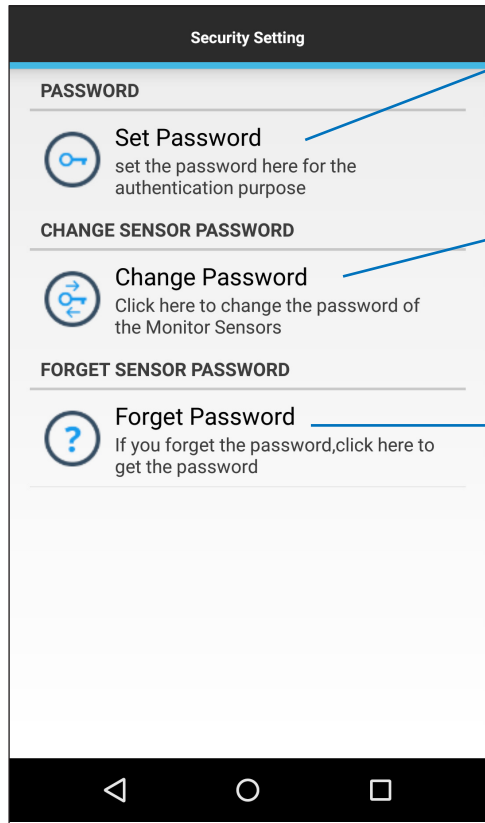
### Sending multiple attachment

-  Android Beam
-  Drive
-  Gmail

# 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

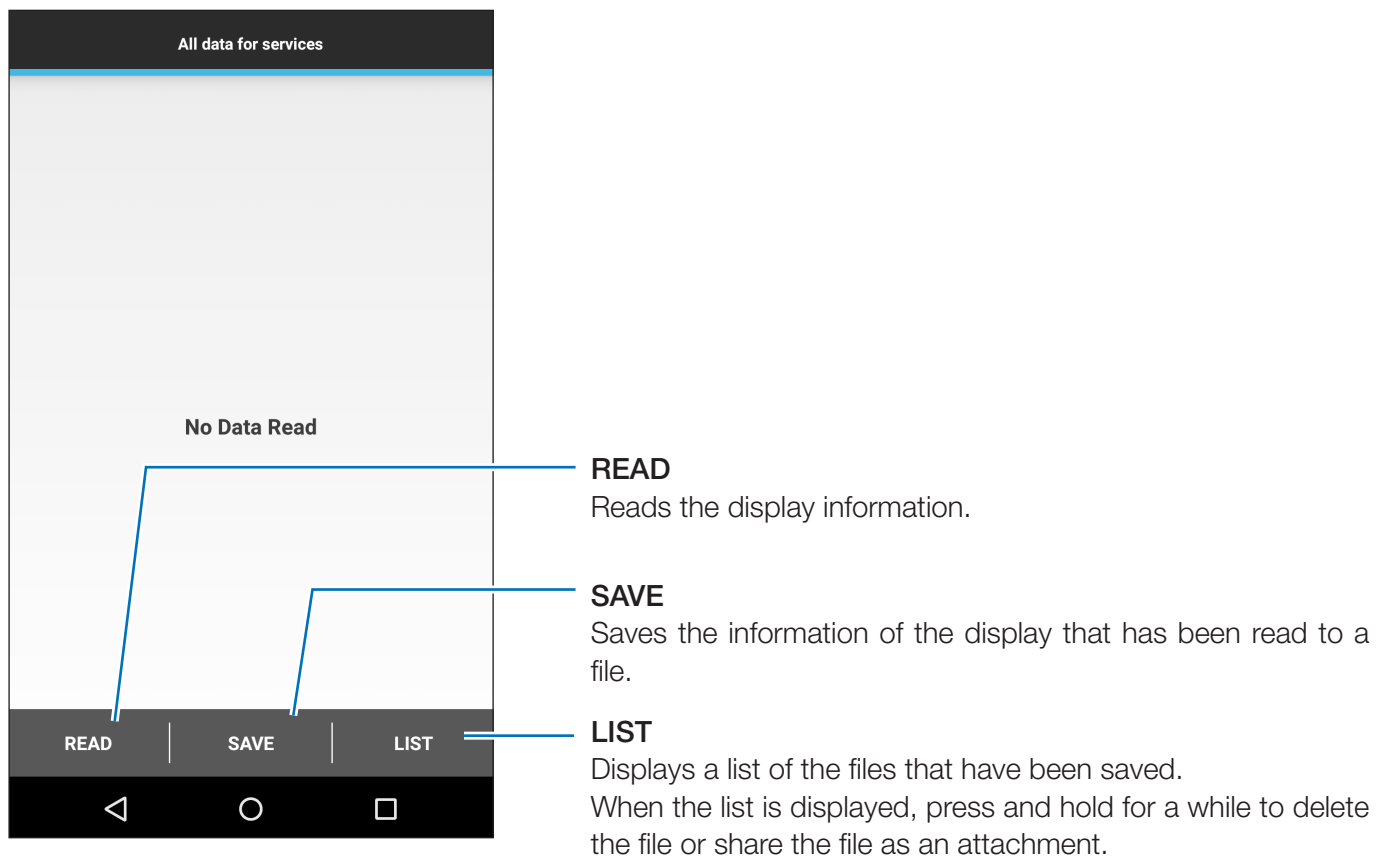
## Forget Password

Displays a hint in case you have forgotten your password.



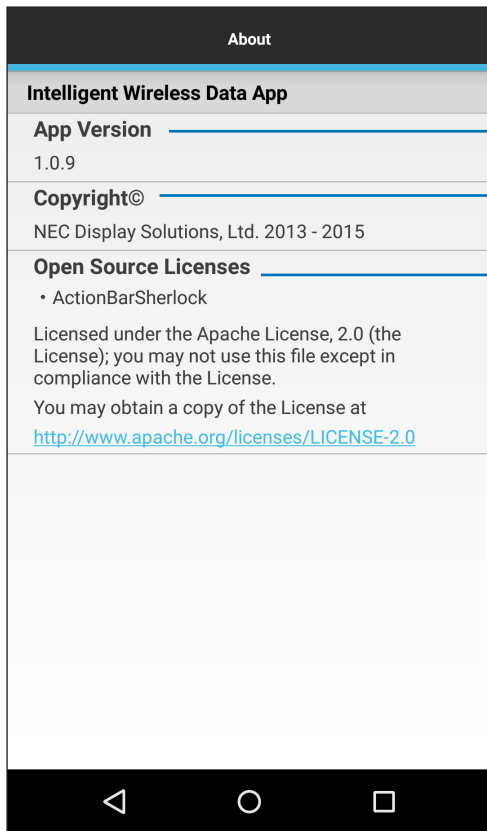
## All Data For Service Screen

This screen is used for fault diagnosis.



# 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

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