

Instruction Manual of LDR-App

for use with water leak detector LDR-20



●Table of Contents

	Page
About LDR-App with Android mobile phone	2
Preparing the LDR-App of mobile phone app	3
How To Install the LDR-App of Mobile Phone App	4
Start up screen after installation.....	8
Main screen of the application (change device register name and check App version)	10
LDR-App Sound Data Acquisition Function	11
LDR-App Report Function	12
LDR-App Mapping Function	13
LDR-App Data Deletion	16
LDR-App Recording Function	18

About LDR-App with Android mobile phone

A mobile phone can be connected when using Fuji Water Leak Detector LDR-20 so that listening records and recordings can be made together with position information on this app.

■ System Requirements

OS: Android 8-13 (as of May, 2023)

The device must have the following:

- Earphone jack (line input) or USB type-C interface with microphone input
- GPS function

*This app is not supported on iOS.

Caution

The accuracy of position information depends on the performance of the mobile phone and communication environment.

Preparing the LDR-App of mobile phone app

Preparing for installation

When installing on Android 8-13 enable this app in the "Allow this provider's app " dialog box in the security warning screen that is displayed at installation.

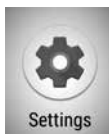
How To Install the LDR-App of Mobile Phone App



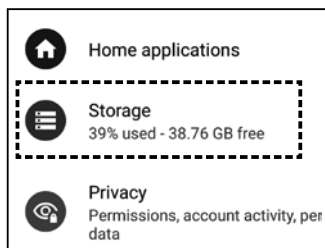
Insert the USB memory stick containing the install data(.apk file) into the USB Type-C insertion port on the mobile phone.

Caution

Take care not to apply force to the USB memory stick while it is inserted or damage the memory stick or connector.



Open "SETTINGS" on the Android device.

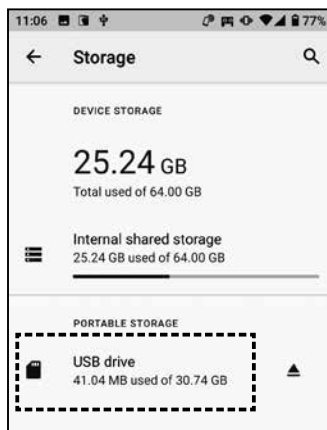


Tap "Storage". (In case of Android10)

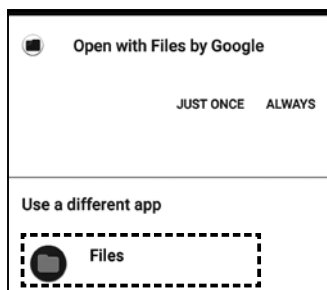
Note:

The display may differ according to the version of the OS or Android model. For details, contact the mobile phone manufacturer.

How To Install the LDR-App of Mobile Phone App



Tap "USB drive" in "Storage".

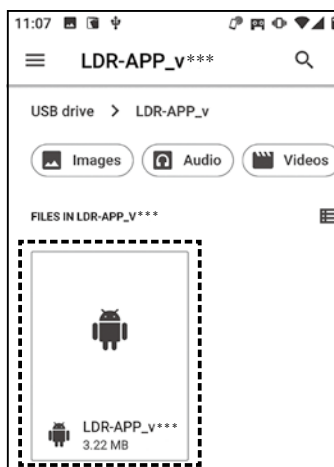


*If this screen is not displayed, go to the procedure on the next page.

How To Install the LDR-App of Mobile Phone App



Tap the "LDR-App" file.



Tap the "LDR-App" install data in the file. :

How To Install the LDR-App of Mobile Phone App

Your phone and personal data are more vulnerable to attack by unknown apps. By installing this app, you agree that you are responsible for any damage to your phone or loss of data that may result from its use.

CANCEL CONTINUE

This message appears. Read and agree to the message, and tap "CONTINUE".



Leak Detector Data Logger

Do you want to install this application?

CANCEL INSTALL

This message appears. Tap "INSTALL" to start installation.

Start up screen after installation



Enter the serial number of the LDR-20 in the Serial no. field, then tap "Register".

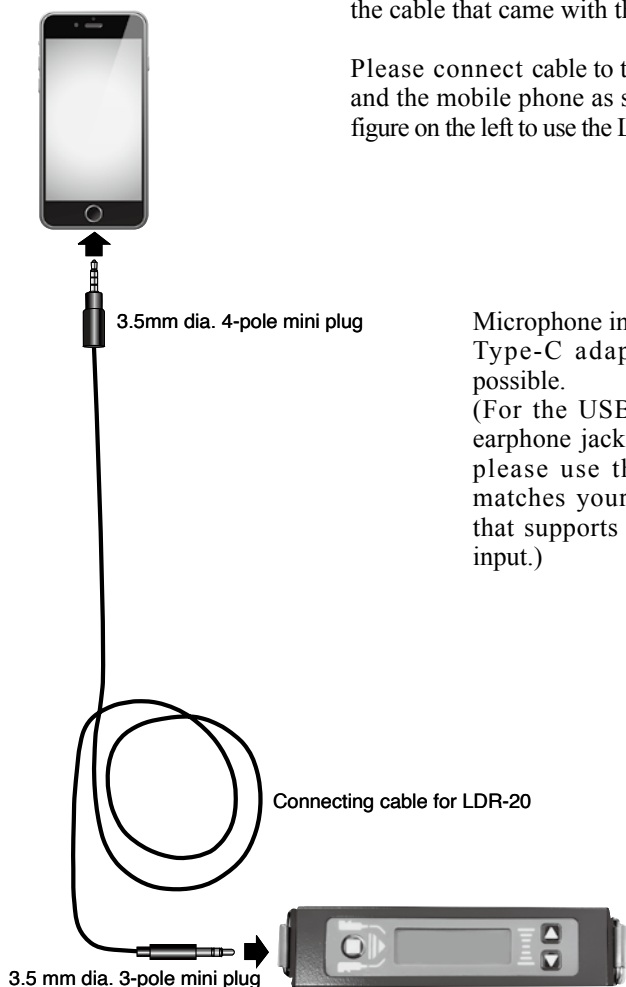
Tap 'Cancel' to close the application.

How To Connect The mobile phone with The Main Unit

Example of Connection

To connect the mobile phone to the main unit and use the LDR-App, Use the cable that came with the product.

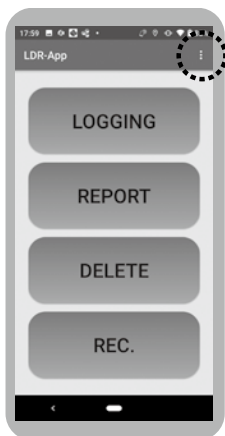
Please connect cable to the main unit and the mobile phone as shown in the figure on the left to use the LDR-App.



Microphone input via USB Type-C adapter is also possible.

(For the USB Type-C to earphone jack conversion, please use the one that matches your model and that supports microphone input.)

Main screen of the application (change device register name and check App version)



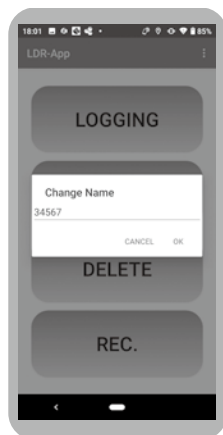
After starting up this application, you see the main screen as shown in the left figure.

Tap the vertical ellipsis and menu comes up. Here you can change the name of the registered device and check the version of the application.

Tap 'Change Name'

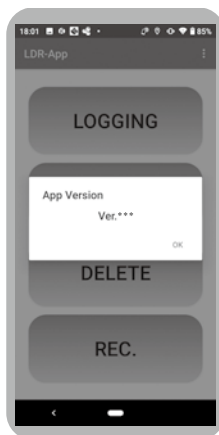
The registered name can be changed up to 8 characters.

(The initial value is the last five digits of the main unit serial number.)



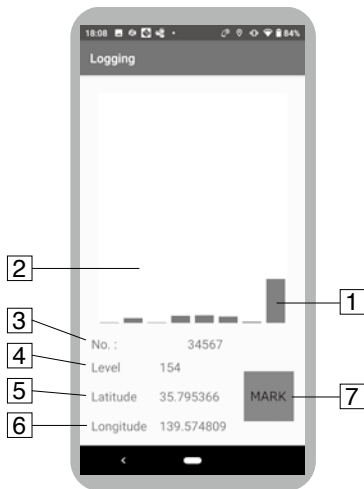
Tap 'App Version'

App version number is displayed.



LDR-App Sound Data Acquisition Function

LOGGING



This function shows the sound level and position at which sound is judged to be present. This function can be used only when the mobile phone is connected to the main unit of LDR-20.

Tap "LOGGING" in the main screen. During the investigation, you can mark points of concern. This will be reflected to report and mapping.

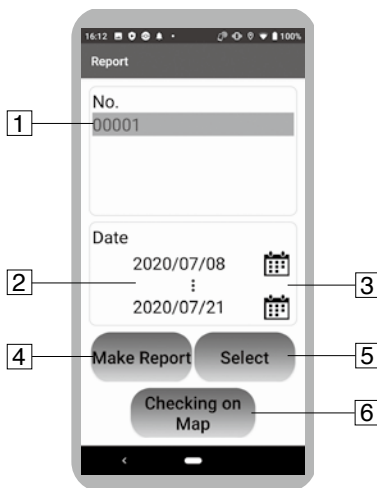
1	Sound level current position	Currently input sound level
2	Sound level	Sound level at which sound is judged to be present. The right of the graph is the latest data.
3	No.	Registered name of the main unit.
4	Level	Latest sound level
5	Latitude	Latitude of position at which the latest sound level was acquired "--" is displayed when the position has not been acquired.
6	Longitude	Longitude of position at which the latest sound level was acquired "--" is displayed when the position has not been acquired.
7	MARK	Tap this to mark the latest sound level data. The button turns green when the mark is enabled. During the investigation, you can mark points of concern. This will be reflected to report and mapping.

LDR-App Report Function

REPORT

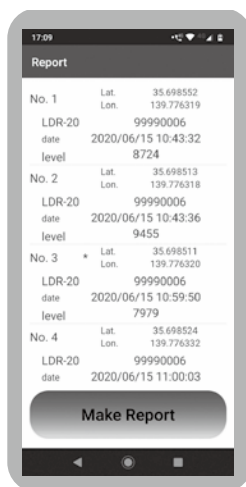
This function allows you to make a report of the sound level data.

Tap "REPORT" in the main screen.



1	No.	This displays a list of registered name contained in the acquired sound data. The selected name is displayed in green.
2	Date	This displays the list of registered name contained in the acquired sound data.
3	Calendar	Select the date range in the calendar.
4	Make Report	This generates a report using the selected registered name and date. The report is saved to directory /android/data/jp.co.fujitecom.ldapp/files/Report.
5	Select	Tapping this moves the screen to the selection screen for each individual record.
6	Checking on Map	This displays the position information of the selected registered name and date.

LDR-App Report Function



Select the registered name and tap "Select", then Data is displayed by individual record.

Select the data to make into a report. By default, all data is selected. The selected data is displayed in green.

The *mark is displayed for data that has been marked in the Logging screen.

Tapping the "Make Report" button generates the report.

The report is saved to directory / android/data/jp.co.fujitecom. ldapp/files/Report (The directory may vary according to the mobile phone you are using.)

LDR-App Report Function

Reports are generated as an image file A4 (portrait) in size and as a .csv file.

Two or more pages are generated if all of the data does not fit on one page.

The file name of a generated report file is "LDR_yyyyMMddHHmmss_p page.png" and "LDR_yyyyMMddHHmmss_p page.csv".

yyyyMMddHHmmss: Date (year/month/day/hour/minute/second) of the oldest data in the selected data.

Data Logger Report

作成日 2020年 06月 15日

NO	model	No.	date	Lat.	Lon.	level	ATT[dB]	MARK
1	LDR-20	99990006	2020/06/15 10:43:32	35.698552	139.776319	8724	0	
2	LDR-20	99990006	2020/06/15 10:43:36	35.698513	139.776318	9455	0	
3	LDR-20	99990006	2020/06/15 10:59:50	35.698511	139.776320	7979	0	*
4	LDR-20	99990006	2020/06/15 11:00:03	35.698524	139.776332	9592	0	
5	LDR-20	99990006	2020/06/15 11:00:05	35.698527	139.776327	6152	0	
6	LDR-20	99990006	2020/06/15 11:00:12	35.698527	139.776327	8332	0	
7	LDR-20	99990006	2020/06/15 11:00:14	35.698527	139.776327	8932	0	
8	LDR-20	99990006	2020/06/15 11:00:15	35.698521	139.776318	9356	0	
9	LDR-20	99990006	2020/06/15 11:00:23	35.698521	139.776318	4	0	
10	LDR-20	99990006	2020/06/15 11:00:25	35.698491	139.776312	9596	0	

If a file of the same name already exists, the newly generated file will be appended with "(1)" as in the below example.

Example:

LDR_20210826121513(1)_p1.png

LDR_20210826121513(1).csv

No.

LDR-App Mapping Function



This function allows you to visually check the detection route on the map.

Red plot : Marked point at logging function.

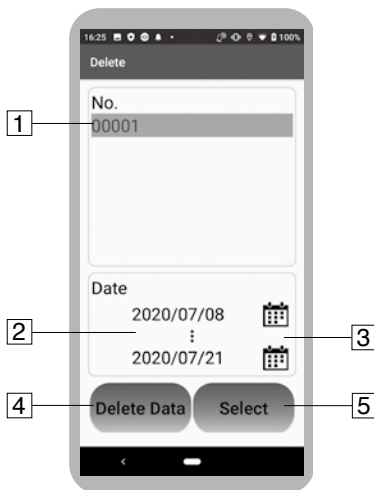
Blue plot : Detected point.

LDR-App Data Deletion

DELETE

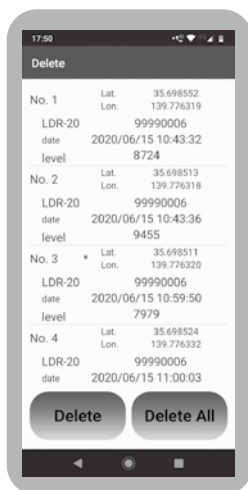
This function allows you to delete data.

Tap "DELETE" in the main screen.



1	No.	This displays a list of the lower five digits of serial numbers contained in the acquired sound data. The selected serial No. is displayed in green.
2	Date	This displays the range of acquisition dates contained in the acquired sound data.
3	Calendar	Select the date range in the calendar.
4	Delete Data	This deletes the report of the selected serial No. and date.
5	Select	Tapping this moves the screen to the selection screen for each individual record.

LDR-App Data Deletion



The data to delete is displayed by individual record.

A list of the data selected in the DELETE screen is displayed.

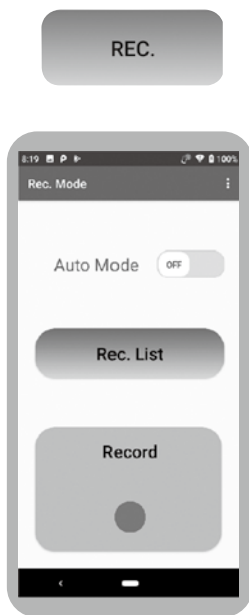
By default, no data is selected. The selected data is displayed in green.

The *mark is displayed for data that has been marked in the sound data acquisition screen.

Tapping “Delete” deletes the selected data.

Tapping “Delete All” deletes all data.

LDR-App Recording Function



Sound captured by the pick-up sensor can be recorded.

Tap "REC." in the main screen.

Make the required settings and recording in the Rec./Mode screen.

■ Auto Mode

When this is ON, sound data captured while sound is judged to be present is saved as a wav format file.

■ Rec. List

Tapping this moves the screen to the recording data list screen.

■ Record

This manually starts and stops recording. Sound data is saved as a wav format file.

The recording data is saved to directory `android/data/jp.co.fujitecom.ldapp/files/RecordData`.

(The directory may vary according to the mobile phone you are using.)



Leak Detection and Locating Technologies

FUJI TECOM INC.

Head office : 2-20, Kanda Sakuma-cho, Chiyoda-ku, Tokyo 101-0025, Japan
TEL : +81-3-3862-3196 FAX : +81-3-3866-1979
URL : <https://www.fujitecom.com/>
E-Mail : overseas_sales@fujitecom.co.jp

Technical development & training center :
8-6-16, Nobidome Niiza-city, Saitama 352-0011, Japan
TEL : +81-48-479-0581 FAX : +81-48-479-0584