Android Application

GDS-2000HD/HG Series

USER MANUAL

ISO-9001 CERTIFIED MANUFACTURER

GW INSTEK

The information in this manual was correct at the time of printing. However, Good Will continues to improve products and reserves the rights to change specification, equipment, and maintenance procedures at any time without notice.

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Table of Contents

Overview

The Android System Application User Manual primarily provides an overview of the system's built-in software. Users can quickly master the software's operation methods through this manual. It mainly includes: Application Center, Network Services, File Manager, Screen Recording, etc.

Application Center	Allows software/system upgrades and adds language and function to instrument apps.
Network Services	Connects to PC for corresponding operations.
File Manager	Views file categories.
Screen Recording	Enables video recording of current operations.
Screen Capture	Takes screenshots of the current interface.
Settings	Enables Bluetooth connection, language switching and other functions.
USB Mouse/Keyboard	Allows direct operation on the instrument through these devices.
Note	USB mouse and keyboards can be purchased separately and should be compatible with Android devices.

App Center

If the user needs to upgrade the software/system or add languages/functions to the instrument app, please contact the after-sales service personnel to obtain the upgrade files.

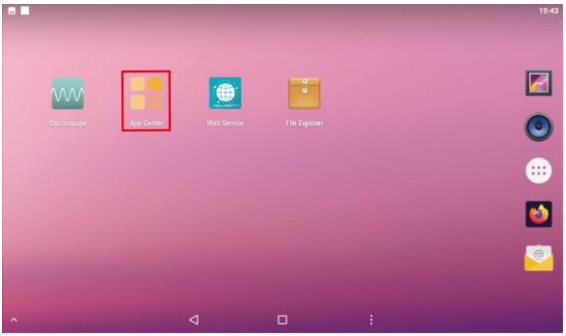
Step

1. The following two methods can be used to access the application center interface.

Method 1

In the main interface of Android system, click "App Center" as shown in Figure 1-1.

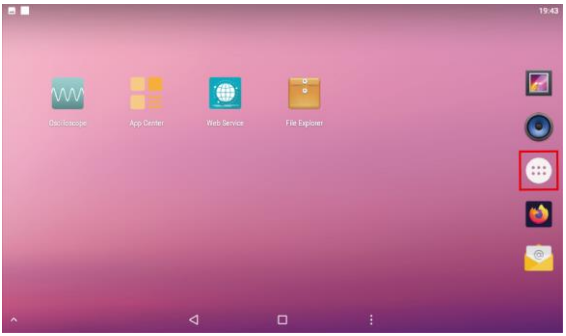
Figure 1-1

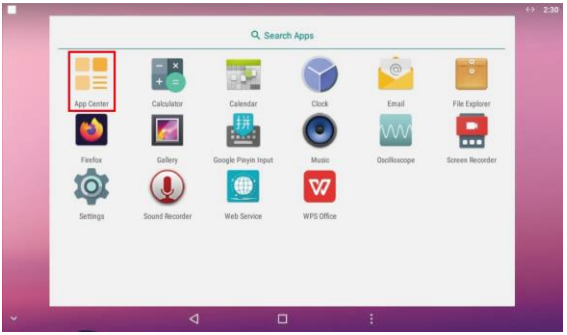


Method 2

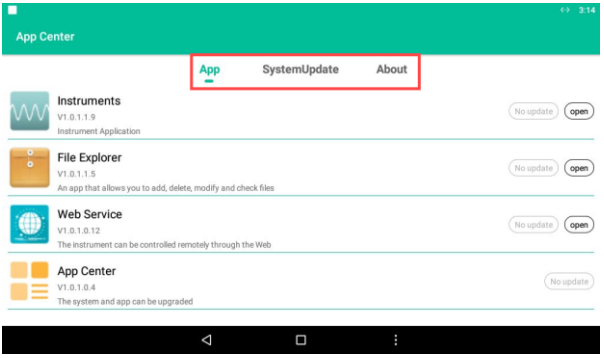
Click "App Drawer" to enter System built-in application list to find "Web Service", as shown in Figure 1-2.

Figure 1-2





Enter "App Center" interface, includes "App", "SystemUpdate" and "About", as shown in the below figure.

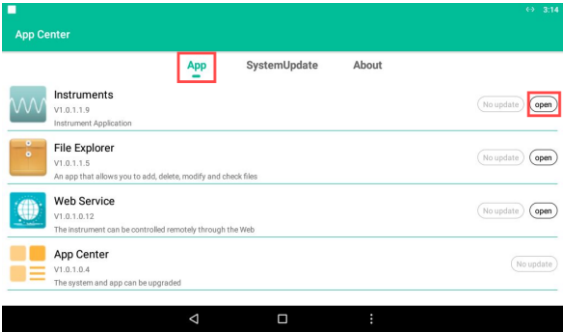


How to upgrade the software

Step

1. In the “App” directory of “App Center”, click “open” the corresponding App can be opened, as shown in Figure 1-3.

Figure 1-3



2. After inserting the USB disk, the App Center will check whether there is an App that can be upgraded on the USB disk.If there is an upgradeable App version, click "update" to update,as shown in Figure 1-4; if not, it will display “No update”, as shown in Figure 1-5.

Figure 1-4

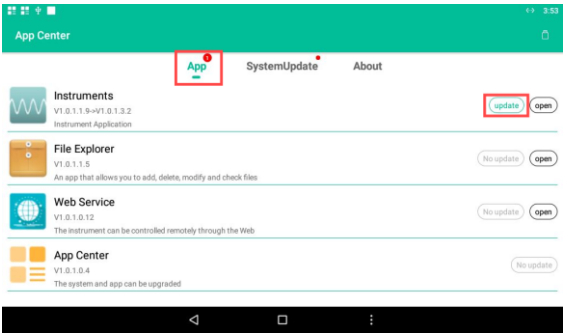
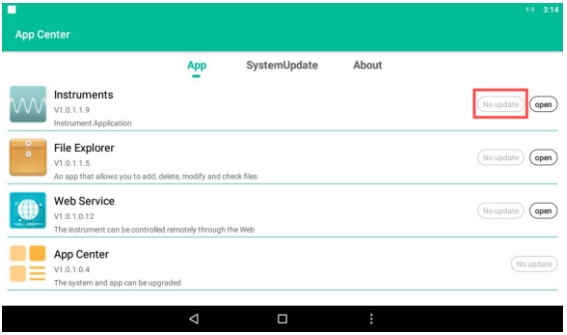


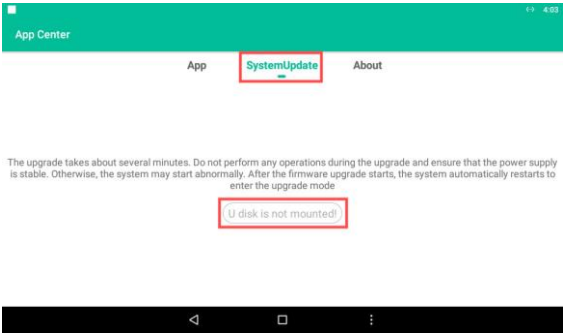
Figure 1-5



How to upgrade the system

Step

1. In the "System" directory of "App Center", it needs to be plugged into a USB disk. If not, system interface as shown in the below figure.



2. After inserting USB disk, update package can be loaded if there is an update package in the USB disk; if not, will display "No update package found!", as shown in Figure 1-6. If the update package in the USB disk cannot be upgraded, the system interface will prompt the corresponding reason, as shown in Figure 1-7.

Figure 1-6

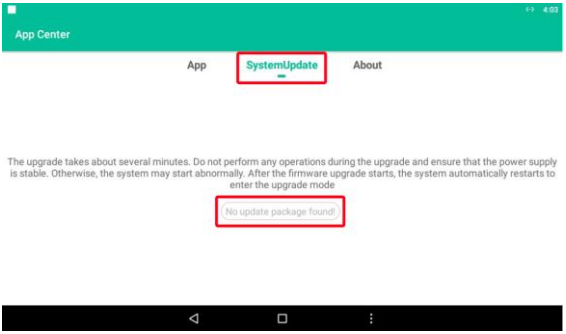
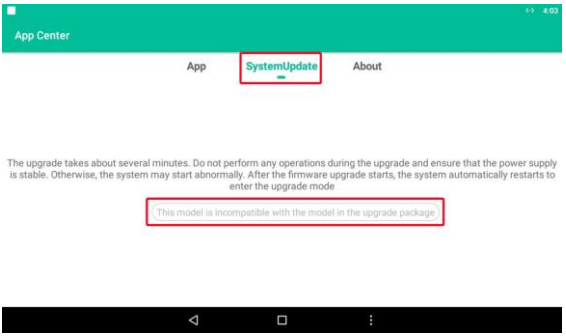


Figure 1-7



3. When the update package on the USB disk is updatable, can click "Firmware update" button, as shown in Figure 1-8, or drop down the status bar to see the upgrade prompt, click "App Center" prompt to upgrade, as shown in Figure 1-9.

Note

You cannot exit the App after clicking Upgrade, the system will be upgraded and restarted within a few minutes.

Figure 1-8

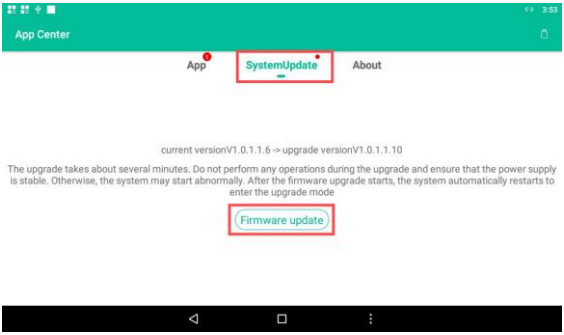
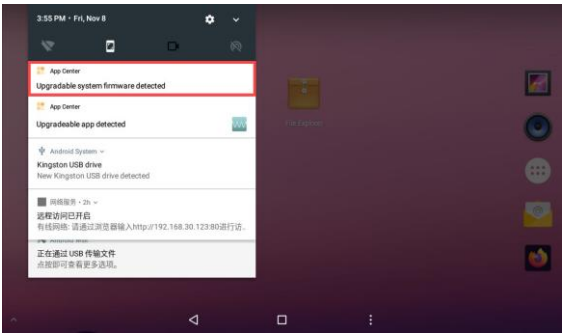
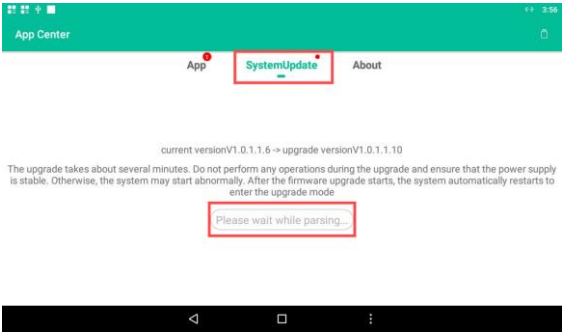


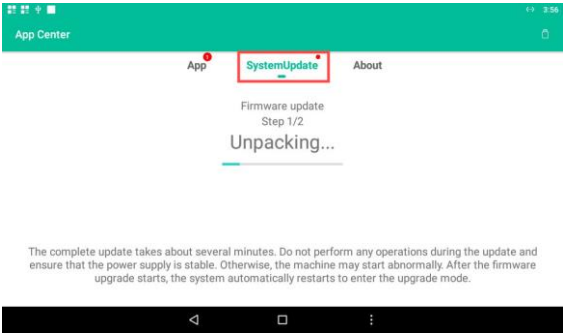
Figure 1-9



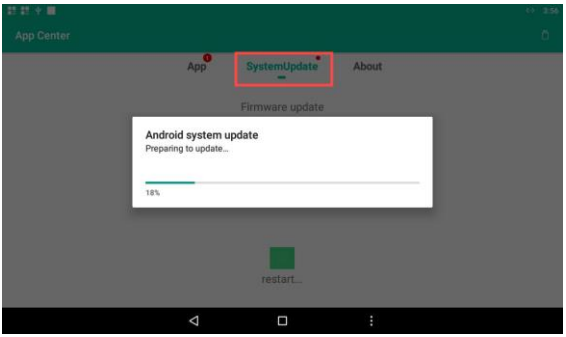
4. After clicking “Firmware update” button, the update package is parsed, as shown in the below figure.



5. Enter the firmware upgrade unpacking step, as shown in the below figure.



6. After the firmware upgrade package is unzipped, the system will automatically update and restart the instrument, as shown in the below figure.



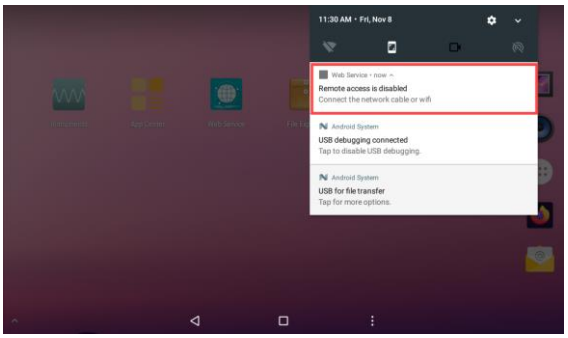
Note

To upgrade the system, the APP that comes with the system will also be upgraded according to the update package.

Web Service

Step

1. The program operates in the background upon machine startup, and when you access the notification bar, a network service notification confirming successful program initiation, as shown in the below figure.

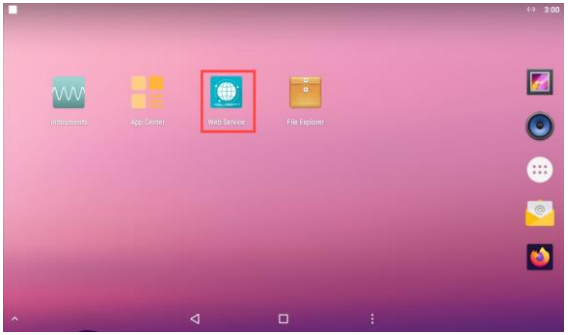


2. The following two methods can be used to access the network service interface.

Method 1

If you want to use network service, can click "Web Service" APP directly as shown in Figure 2-1.

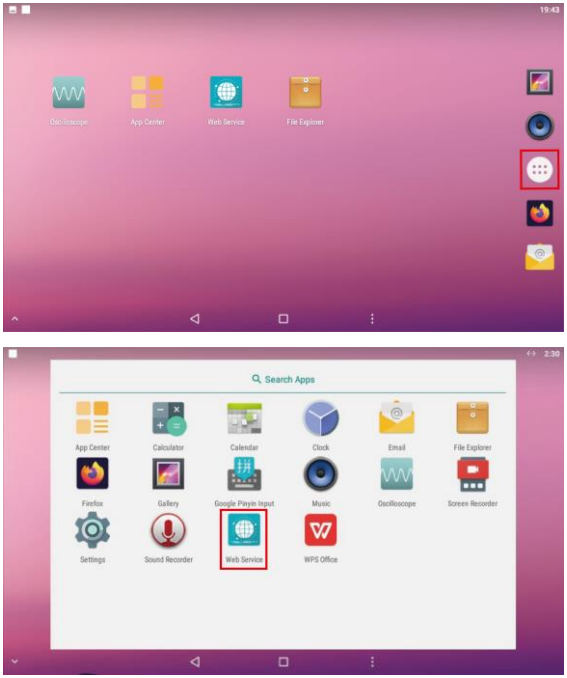
Figure 2-1



Method 2

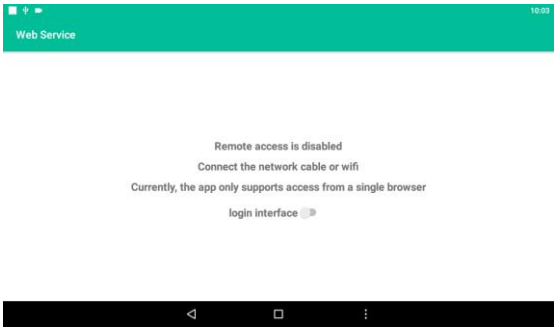
Click "App Drawer" to enter System built-in application list to find "Web Service", as shown in Figure 2-2.

Figure 2-2



Enter "Web Service" interface, as shown in Figure 2-3. Network service can be performed by connecting to wired network.

Figure 2-3



Note

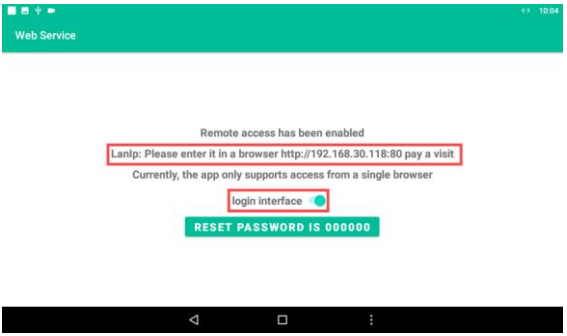
When the login interface switch is highlighted, using the web service will redirect to the login screen. If the login interface is not enabled, using the web service will directly redirect to the control interface without requiring login.

Use wired network to use Web Service

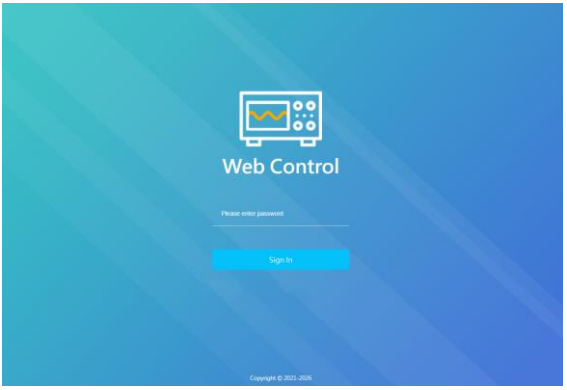
The following operations are described using the login interface as an example.

Step

1. When connecting to the wired network for web service, you can see the website information in the network service interface,as shown in the below figure.



2. Enter the corresponding website in the browser to jump to the login screen, as shown in the below figure. Default password is 000000.



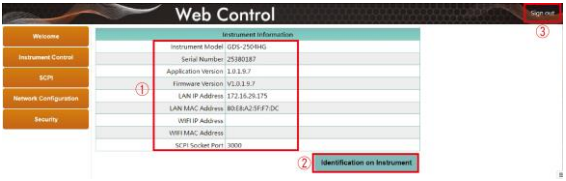
Note

The current program only supports single-user login. When you log in using this browser, other computers

or browsers will be unable to log in unless you click on the exit or close button.

3. After logging in, the PC side will jump to the "Web Control" page, as shown in Figure 2-4. The instrument network service interface will show that you are logged in, as shown in Figure 2-5.

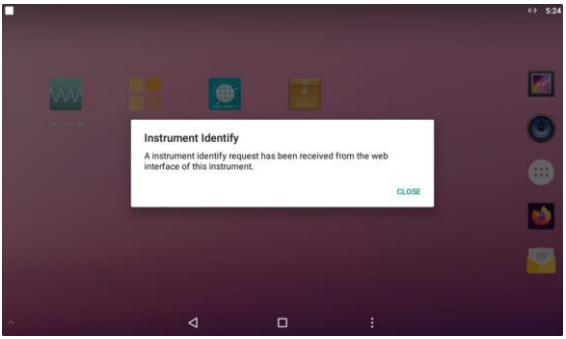
Figure 2-4



Entering the "Web Control" page will default to the "Welcome" module.

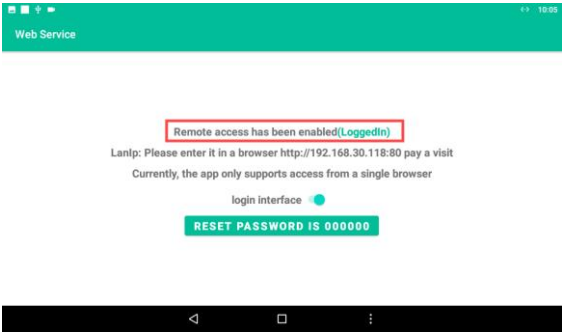
① Represents various kinds of information within the machine.

② Click "Identification on Instrument" button, the machine will pop up a window and play a ringing for 3 seconds, as shown below.

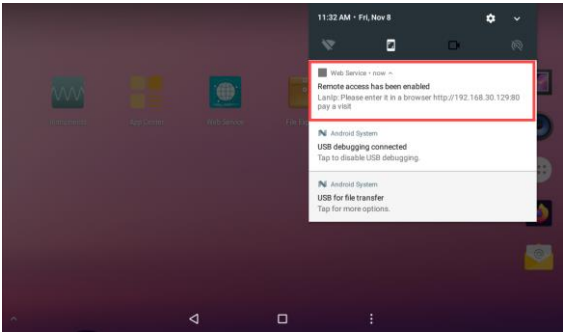


③ Click "Sign out" button will perform the exit operation, and jump back to the login screen.

Figure 2-5



4. If you drop down the status bar in the main interface of the instrument, you will see such a notification, showing that remote access has been enabled and access is carried out in the LAN, as shown in the below figure.



5. Click the "Instrument Control" button on the left to jump to the instrument control interface, as shown in Figure 2-6; the corresponding web service interface will be displayed "(Logged ln)(Viewing)", as shown in Figure 2-7.

Figure 2-6

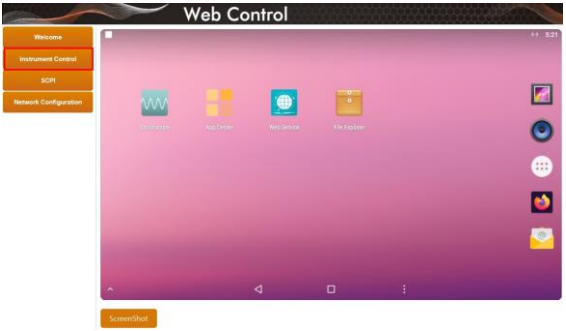
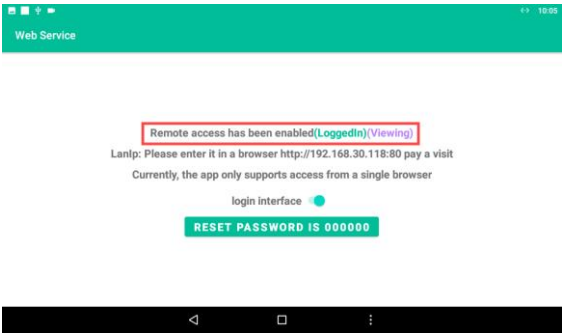


Figure 2-7



6. Click the "SCPI" button on the left to jump to the following interface, as shown in the below figure. Enter the SCPI Command in the Command Input Box, click "Send" to send the command, the instrument will receive the corresponding SCPI command, if the command has a return value, the corresponding return value will be displayed in the Response Box.

7. Click the "Network Configuration" button on the left to jump to the following interface, as shown in the below figure. This interface is used to modify the IP address and other

information of the current connection network. Click "Apply" to save the changes after filling in the information.

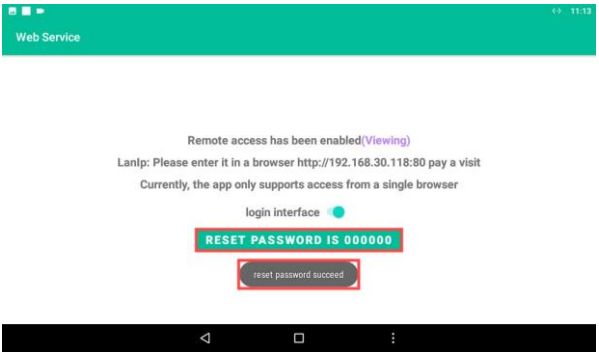
Note

You need to log in again after the modification, because the IP has been modified. In addition, after the modification is completed, it may not be accessible because of conflicts with other IP addresses or other circumstances.

8. Click the "Security" button on the left to jump to the following interface, as shown in the below figure. Enter the old password and the new password and click "Apply" to save the new password. The new password will take effect after logout (That is, if you do not exit, you can continue to perform other operations in this interface).

Note

If you forget your password, open the Web Service App and enter the interface, click "RESET PASSWORD" button, will reset the password to 000000, as shown below.

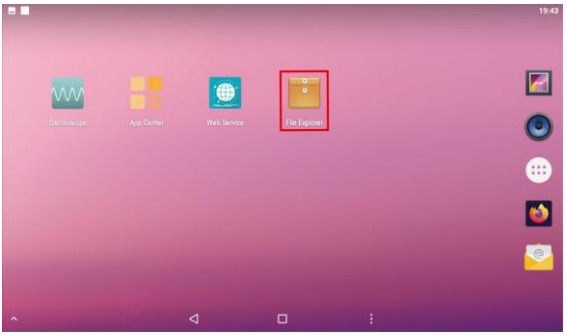

11:13
Web Service
Remote access has been enabled(Viewing)
LanIp: Please enter it in a browser http://192.168.30.118:80 pay a visit
Currently, the app only supports access from a single browser
login interface
RESET PASSWORD IS 000000
reset password succeed

File Explorer

Step 1. The following two methods can be used to access the file explorer interface.

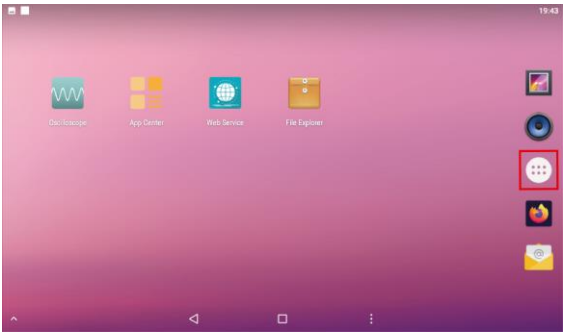
Method 1 Click "File Explorer" as shown in Figure 3-1.

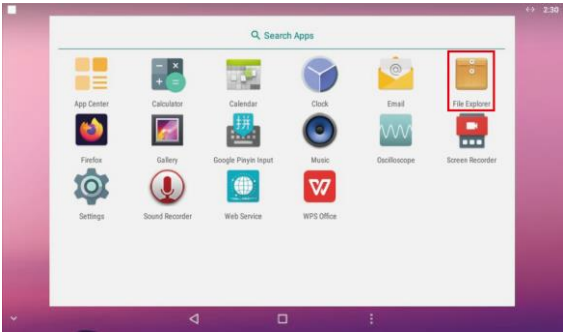
Figure 3-1



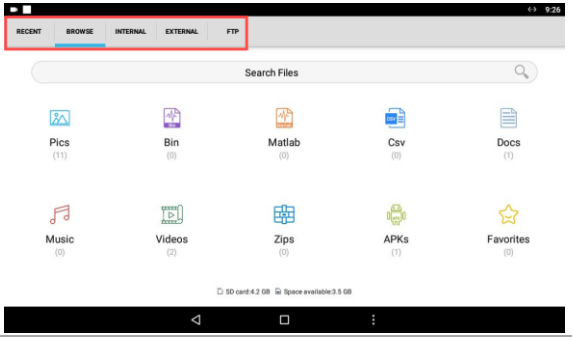
Method 2 Click "App Drawer" to enter System built-in application list to find "File Explorer", as shown in Figure 3-2.

Figure 3-2



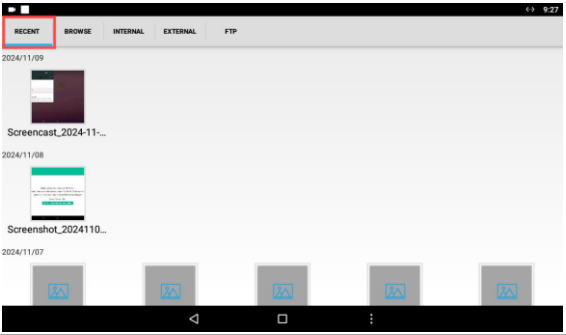


2. Enter “File Explorer” interface, as shown in the below figure.The interface includes five menus: RECENT, BROWSE, INTERNAL, EXTERNAL.



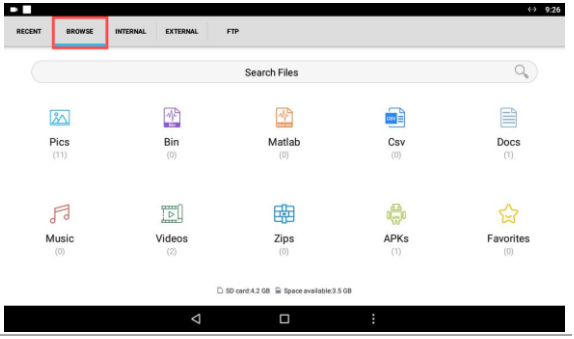
RECENT

Click “RECENT” directory, as shown in the below figure. You can see recent screenshots, files, and more.



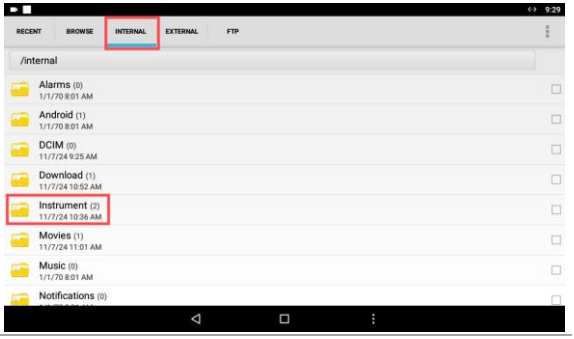
BROWSE

Click "BROWSE" directory, as shown in the below figure. There are 10 categories: Pics, Bin, Matlab, Csv, Docs, Music, Videos, Zips, APKs, Favorites. Click on the corresponding category to view the data.



INTERNAL

Click "INTERNAL" directory, as shown in the below figure.

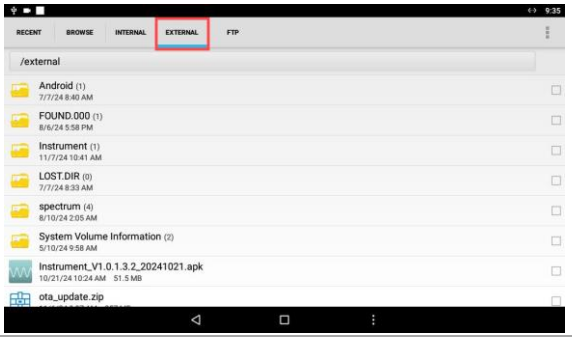


Note

The "Instrument" directory is the directory where the oscilloscope stores the files.

EXTERNAL

After inserting the USB disk, click the "EXTERNAL" directory to display the file in the USB, as shown in the below figure.



How to view the images saved by the instrument

The following operations are described using the login interface as an example.

Step

1. Click “Oscilloscope” App,as shown in Figure 3-3, or click “App Drawer” to enter System built-in application list to find "Instruments", as shown in Figure 3-4.

Figure 3-3

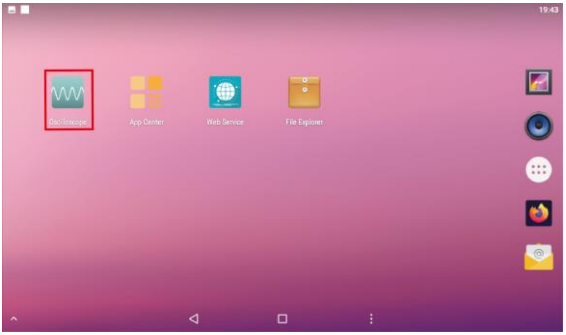
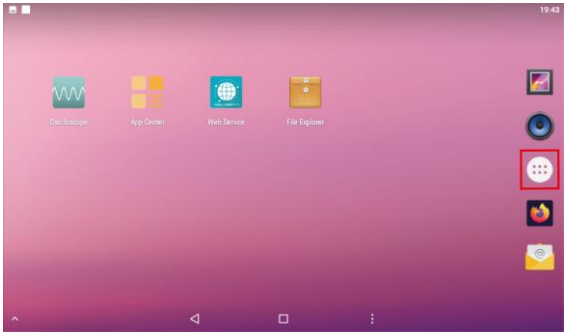
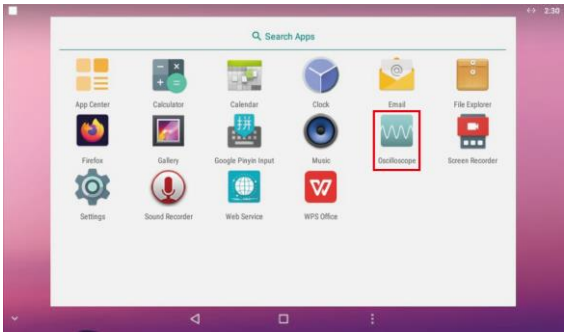


Figure 3-4

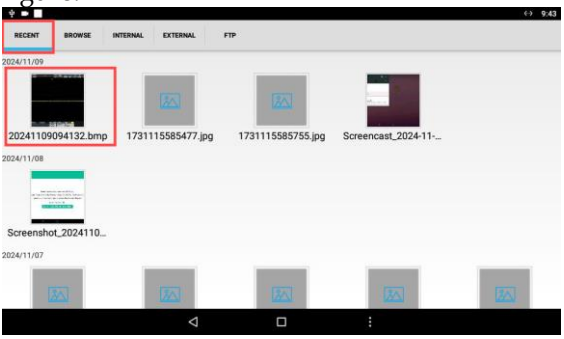




2. In the Oscilloscope interface, click  to select Save function and then click "Save", type select "Image", click "Save" finally, the current picture of the instrument interface can be saved, as shown in the below figure.

3. Click "File Explorer", and then click "RECENT" directory, you can see the saved

instrument picture, as shown in the below figure.



How to copy files to an external directory

Step

1. Click "INTERNAL" directory, check "Instrument" file, click button, as shown in the below figure.

2. 3-4. Click "EXTERNAL" directory, click "Paste", as shown in Figure 3-5.The "Instrument" folder in the internal file is successfully copied to the external directory, as shown in Figure 3-6.

Figure 3-5

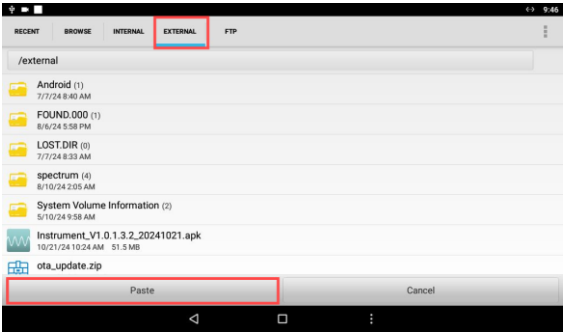
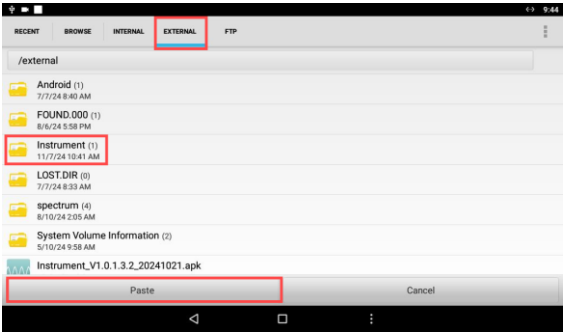


Figure 3-6



Screen Recorder

Step

1. Click "App Drawer" to enter System built-in application list to find "Screen Recorder" App as shown in Figure 5-1, or drop down the status bar click can start recorder, as shown in Figure 5-2.

Figure 5-1

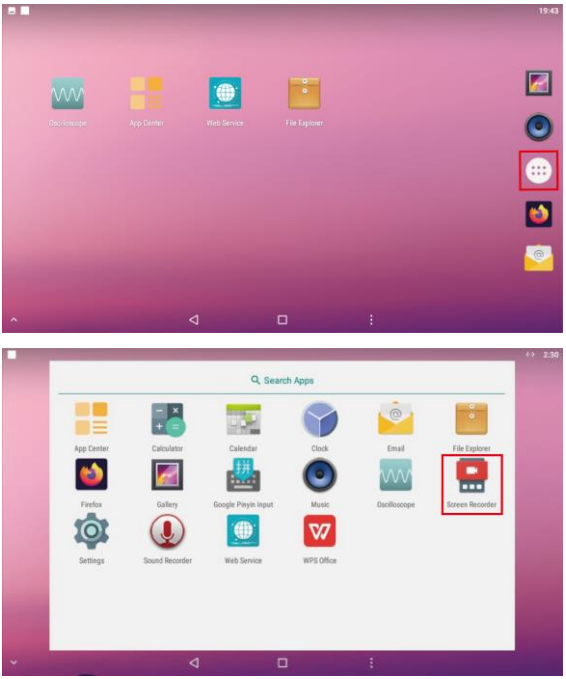
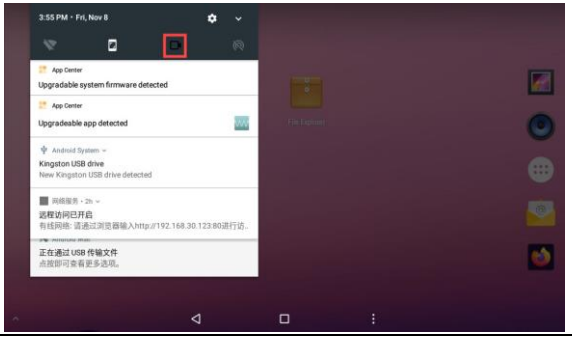
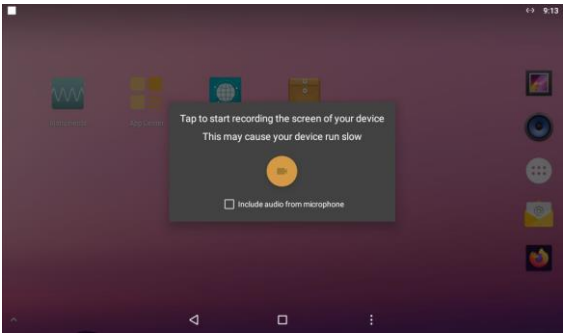


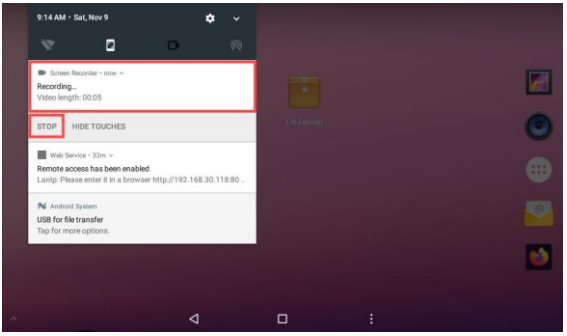
Figure 5-2



2. Enter “Screen Recorder” interface, click as shown in the below figure.



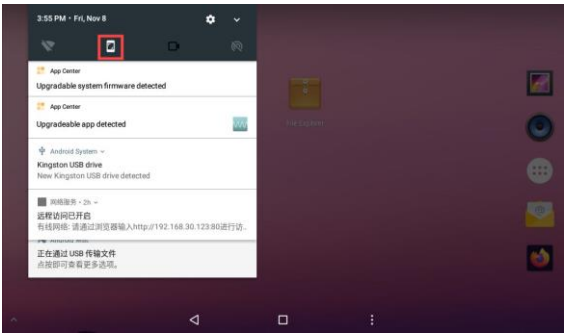
3. Drop down the status bar to see the screen recording time, click “STOP” to end the screen recording, as shown in the below figure.



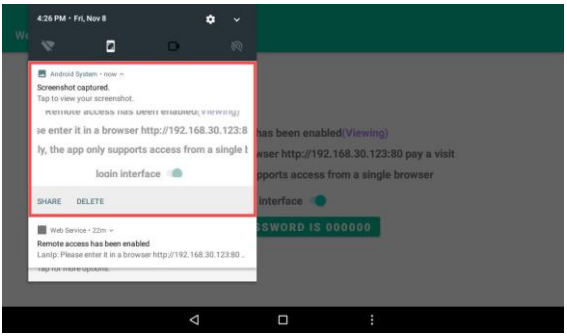
Screenshot

Step

1. Drop down status bar and click  . It can take screenshots of the current display interface of the instrument, as shown in the below figure.



2. After the screenshot is complete, drop down the status bar to view the screenshot information, as shown in the below figure.

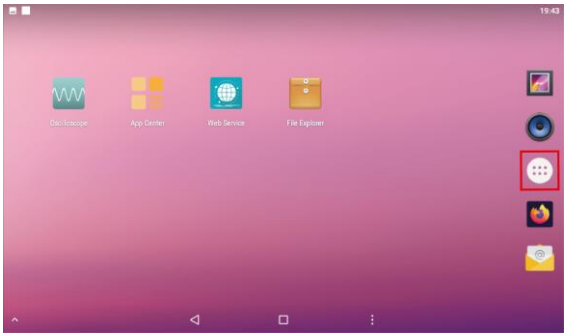


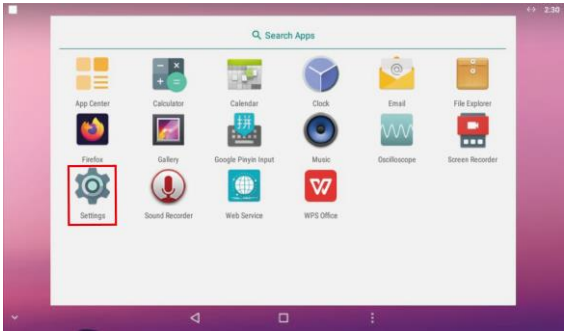
3. Click “File Explorer”, can view the screenshot obtained.

USB Bluetooth module

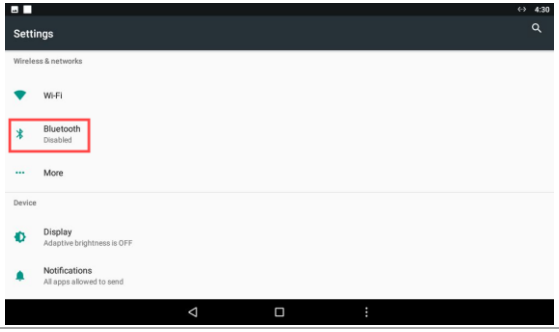
Step

1. Click "App Drawer" to enter System built-in application list to find "Settings", as shown in the below figure.

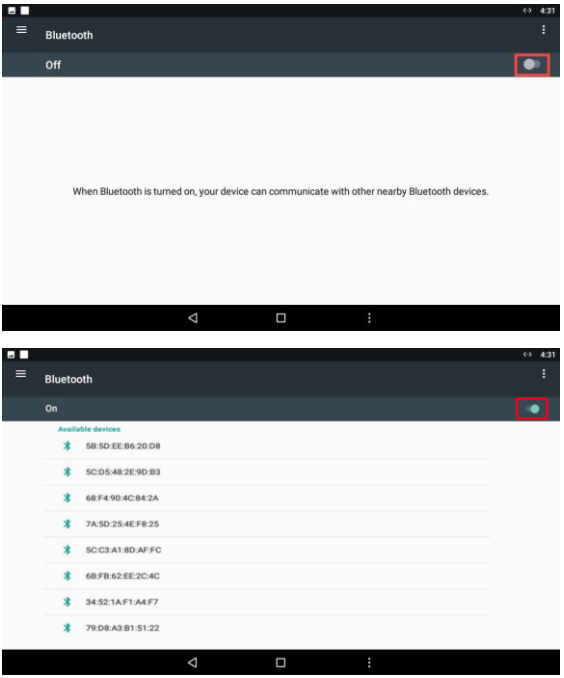




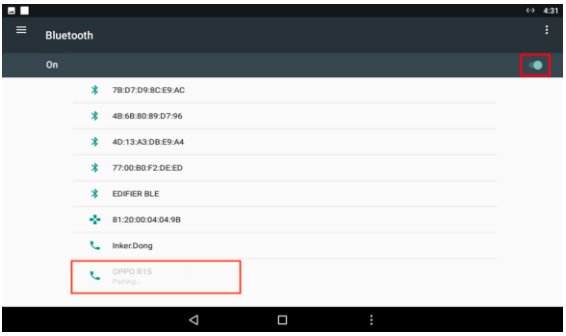
2. Enter "Settings" interface, click "Bluetooth", as shown in the below figure.



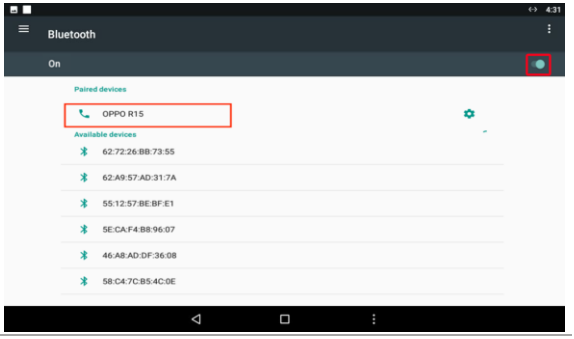
3. Enter “Settings” interface, click “Bluetooth”, as shown in the below figure.



4. In the “Bluetooth” interface, click the Bluetooth you want to connect, and the Bluetooth will enter the pairing state, as shown in the below figure.



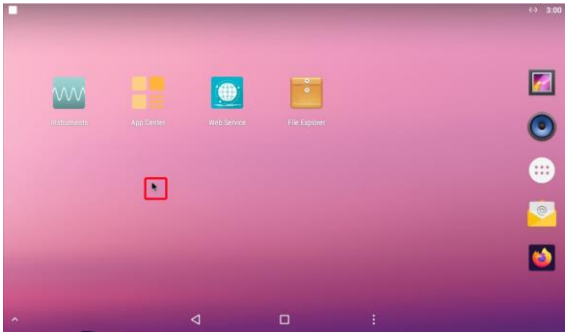
5. In the "Bluetooth" interface, click the Bluetooth you want to connect, and the Bluetooth will enter the pairing state, as shown in the below figure.



USB Mouse

Step

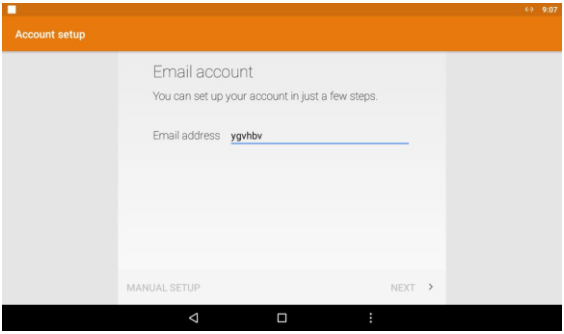
1. When the USB mouse is inserted, the mouse chart will appear on the screen, as shown in the below figure. The mouse operation is the same as the PC side.



USB keyboard

Step

1. When a USB keyboard is inserted, the keyboard can be used for input. For example, if you open Email, you can enter the content,as shown in the below figure.



Note

USB mouse and keyboards can be purchased separately and should be compatible with Android devices.