EFIX F4 & F7 GNSS

Quick Tour with eField

(Internal UHF Work Mode)

By surveyors , for surveyors

Guidance

This quick tour consists of the following information:

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1. Prerequisites

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1.1. Hardware

EFIX F4 base kit, EFIX F7 rover kit.

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1.2. Software

eField.

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2. Steps to set internal UHF work mode with eField

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2.1. Base & rover installation

Screw the F4 receiver on the tripod adapter,
fix the UHF whip antenna on the receiver.

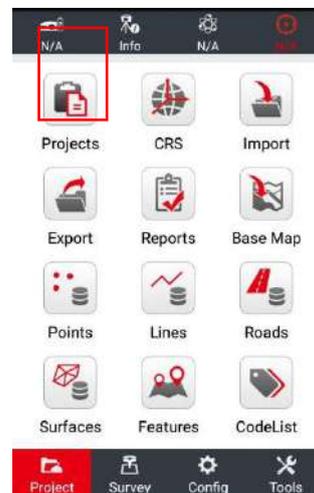Screw the F7 receiver to the pole, fix the UHF
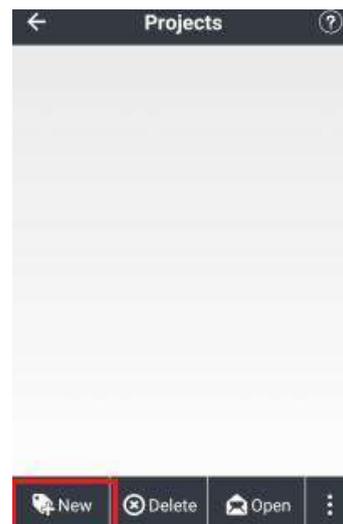whip antenna on the receiver.

2.2. Create a project

(1) Power on the receiver: Long press the F4 power button until the green and blue LED lights are on.
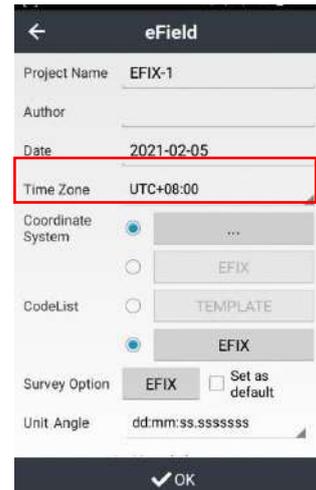
(2) Launch the eField software.

(3) Tap **[Projects]** - **[Project]** to create or open a project.
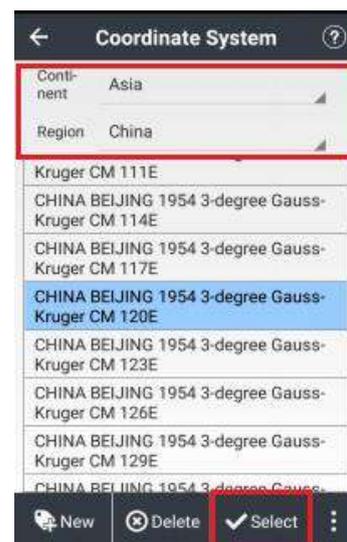

(4) Tap **[New]** to create a new project.

(5) Input the project name, the author of the project and the time zone of working region.

(6) Tap **[Coordinate System]** to choose the coordinate system of the project.

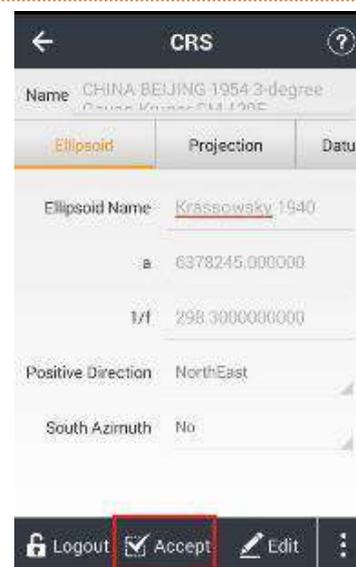(7) Tap **[Add]** to add pre-define coordinate system in the list.

(8) Select the continent and region according to working area.

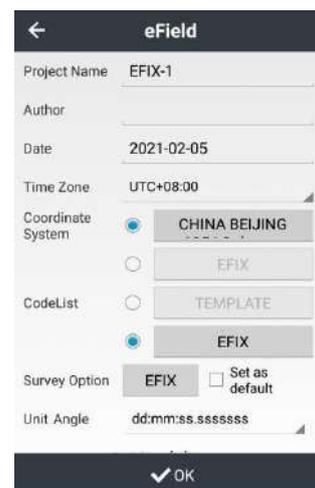(9) Find proper coordinate system to use.

(10) Tap **[Select]** to confirm.

(11) Selected coordinate system is available in the pre-define list, tap **[Select]** to confirm.

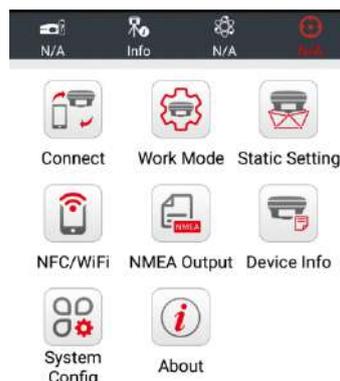(12) Check parameters of coordinate system and tap **[Accept]** to confirm.

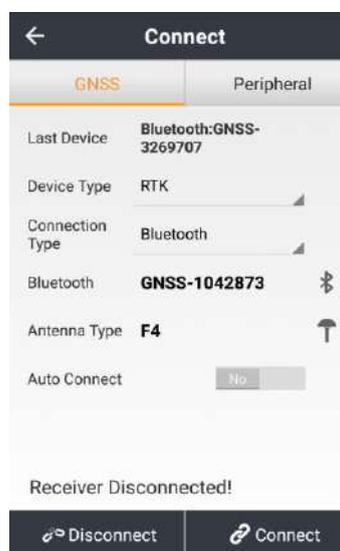

(13) Tap **[OK]** to finish the project setting.

2.3. Connect to a receiver

(1) Tap **[Config]** - **[Connect]**.

(2) receiver supports two kinds of connection method in eField: Bluetooth connection and Wi-Fi connection.
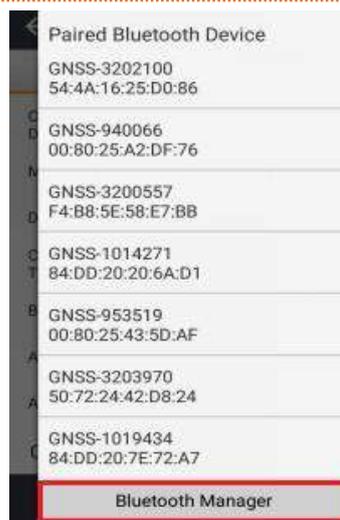
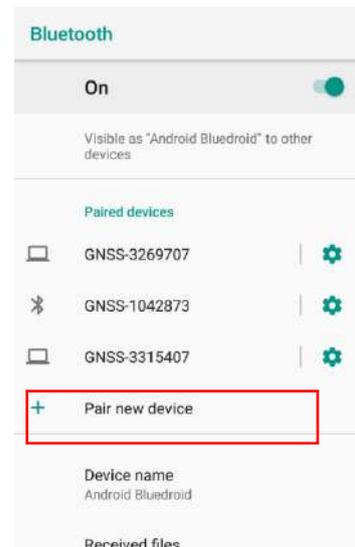(3) Select the proper one to connect.

2.3.1. Bluetooth connection

(1) Select manufacturer as **[RTK]**, device type as **[F4]**, connection type as **[Bluetooth]**.

(2) Tap the Bluetooth icon on the right side to select the Bluetooth device.

(3) Tap **[Bluetooth Manager]** to pair Bluetooth device. If the target device has been paired with the controller, select it in the **[Paired Bluetooth Device]** list directly.
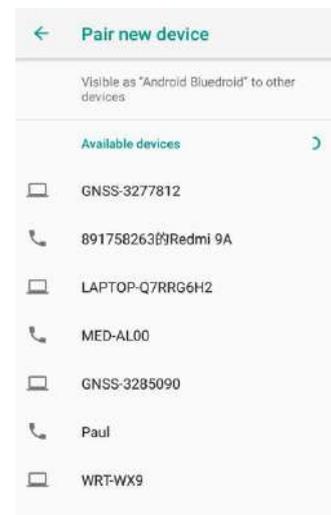
(4) Switch on the Bluetooth module at right-top corner, tap **[Pair new device]** to search the target receiver.
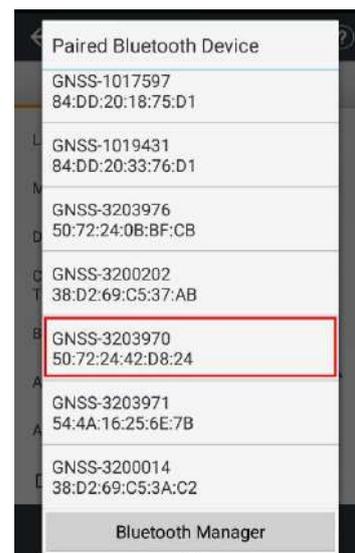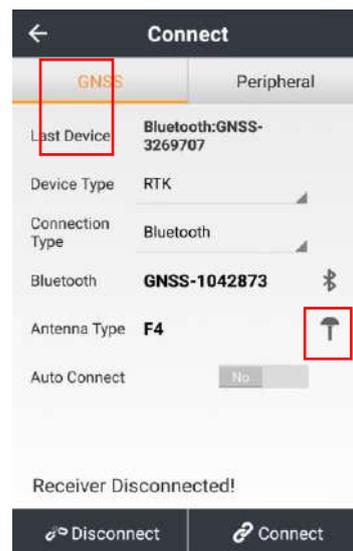
(5) Select the target one in the list.
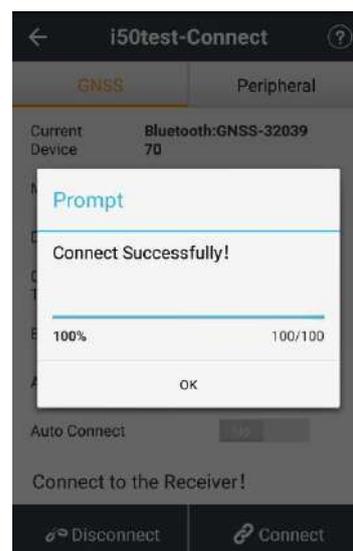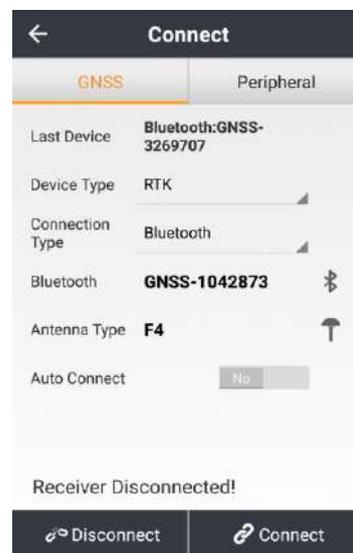
(6) Tap to pair with it.

(7) Select the paired receiver in the **[Paired Bluetooth Device]** list.

EFIX logo

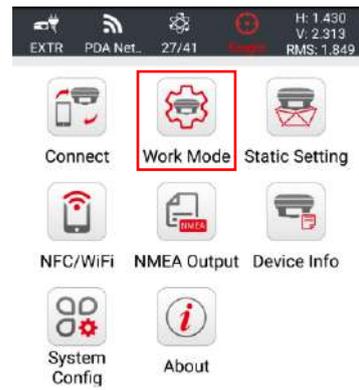(8) Tap **[Antenna]** icon to select the corresponding antenna type.
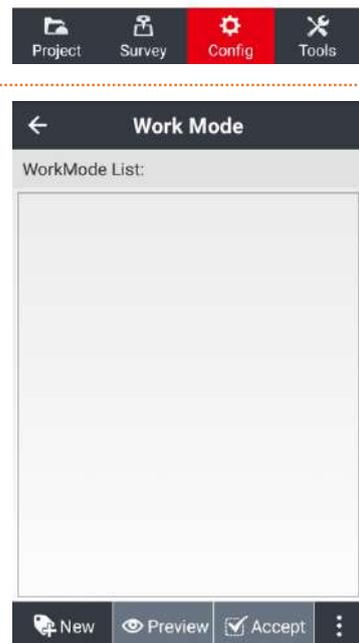

(9) Tap **[Connect]** to build the connection.

(8) Tap **[Antenna]** icon to select the corresponding antenna type.
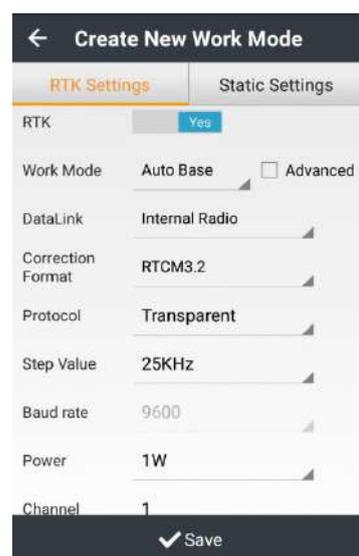
2.4. Create a base work mode

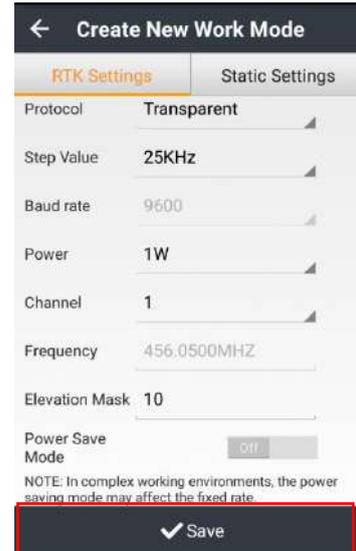(1) Tap **[Config]** - **[Work Mode]** to create or accept a work mode.
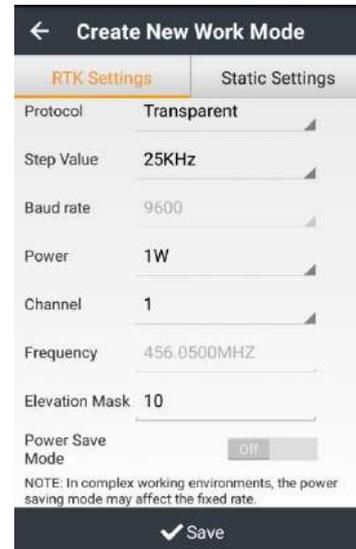
(2) Tap **[New]** to create a new work mode.

(3) Select the work mode as **[Auto Base]**, datalink as **[Internal Radio]**, protocol as **[Transparent]**, step value as **[25kHz]** and choose the channel.

(4) Check the **[Frequency]** and tap **[Save]**.

(5) Input the name of the new work mode and tap **[OK]**.

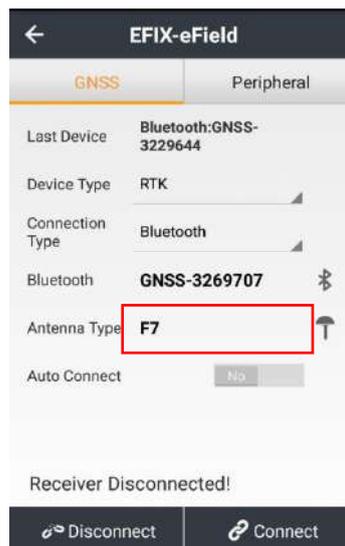(6) Select the new work mode in the **[Work Mode List]** and tap **[Accept]**.

(7) Click **[Accept]** to apply the work mode, There will pop up a message with 'Start up base successfully and break connection', which means the base was set successfully.

2.5. Connect to a rover

Connect to a rover receiver, the step is the same as connecting to a base receiver.

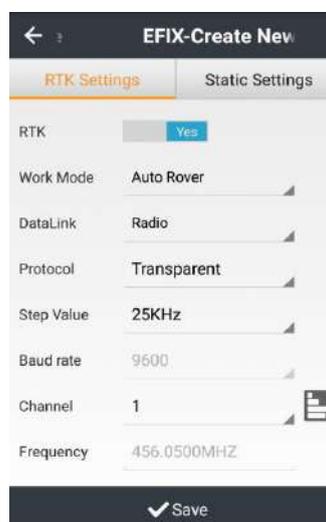Antenna type select F7, and tap **[Connect]** icon to connect.
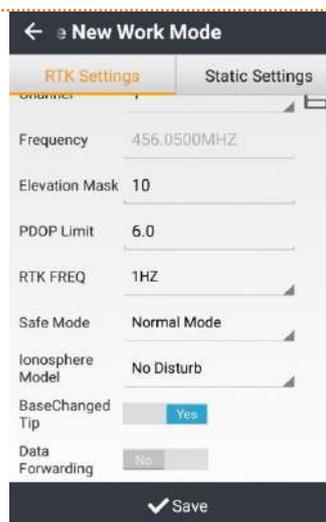
2.6. Create a rover work mode

(1) Tap **[Config]** - **[Work Mode]** to create or accept a work mode.

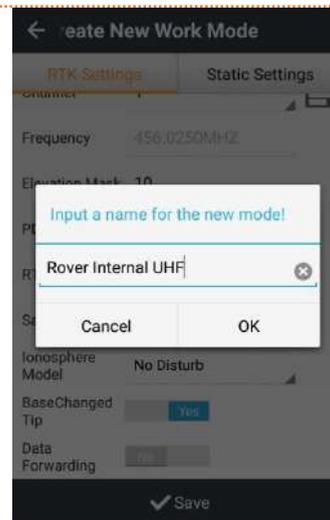(2) Tap **[New]** to create a new work mode.

(3) Select the work mode as **[Auto Rover]**, datalink as **[Radio]**, protocol as **[Transparent]**, step value as **[25kHz]** and choose the same channel as base receiver.

(4) Check the frequency value, enable **[BaseChanged Tip]**, and tap **[Save]**.
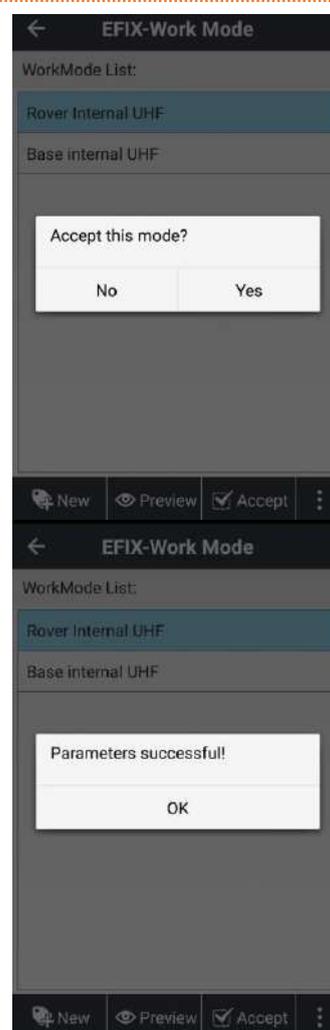
(5) Input the name of the new work mode and tap **[OK]**.

(6) Select the new work mode in the **[Work Mode List]** and tap **[Accept]**.

Click **[Accept]** to apply the work mode, There will pop up a message with '**Parameters successful!**', which means the rover was set successfully.

2.7. Survey

(1) Wait until the green LED flashes and the software shows **[Fix]**, which means the rover is getting the correction data from base.

(2) Tap the **[Survey] - [Map]** to start your work.

(3) Tap the [Survey] icon to collect the points and start your work.

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