

Runbelt User Manual

V2.0

March, 2016

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1. Outline

1.1.Supporting

Apple IOS 8.0 plus, iPhone 5s plus.

1.2. Component

Name	Description
Runbelt Device 	To display user data.
IOS App - FOSLabs 	To operate or send user data.

1.3. Conception

Pattern: A display sequence that can be fixed(un-editable), dynamic (editable) or connected(getting data from an external source).

Playlist: A series of patterns that can be displayed in a set order or at random.

Runbelt device just can display a Pattern or a Playlist at a time, But all Patterns and Playlists can be edited in FOSLabs.

Loading: The data will display on device and be saved in Flash of Runbelt device.

Previewing: The date will display on device and be saved in Memory

of Runbelt device.

When Runbelt device is powered off, the loading data won't lose but the previewing data will.

2. Getting Started

2.1. Hardware Preparation

Press the button 1 for 5 seconds to start up device. See Picture 1.



Picture 1. Runbelt Device

2.2. Software Preparation

Provide UDID of iPhone for App developer. Download and install the FOSLabs App from <http://www.pyger.com/kshq>. See Picture 2.



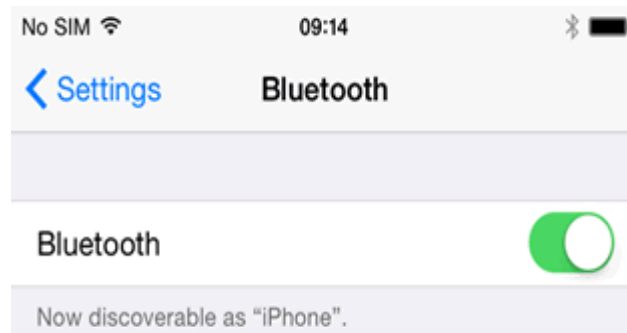
Picture 2. The Installed App - FOSLabs

2.3. Bluetooth Connection

2.3.1. Switching on the Bluetooth setting

If the Bluetooth setting of iPhone has been switched on, ignore this step.

If not, go to the IOS system settings to switch it on. See Picture 3.



Picture 3. Bluetooth Setting

2.3.2. Scanning and connecting the device

Open the FOSLabs App, click the CONNECT menu on the bottom right and switch on the Bluetooth switcher to scan Runbelt devices. See Picture 4.



Picture 4. Scanning Devices

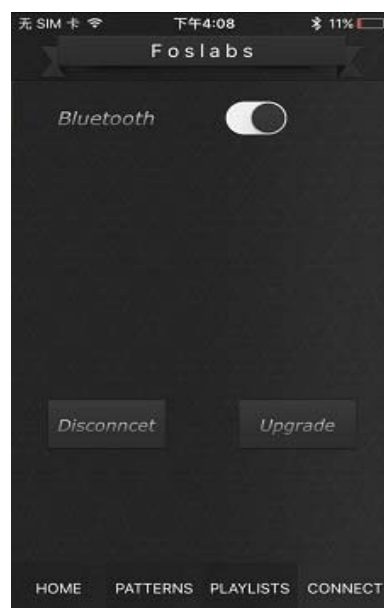
When the scanning finished, click "My Devices" and choose a Runbelt device to connect. See Picture 5 and Picture 6.

Note: The SN of a Runbelt device is "BELT" followed with 8 digit hex numbers.



Picture 5. Choosing a Device

When connected, previewing or loading a Pattern or Playlist on a Runbelt device are available.



Picture 6. Device been Connected

3. Patterns

3.1. Patterns Interface

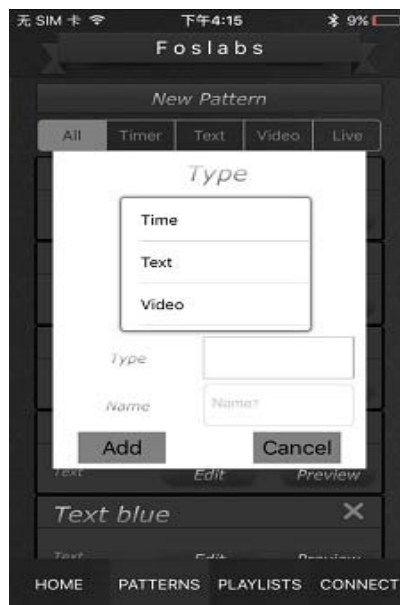
Open FOSLabs --> Click PATTERNS menu, See Picture 7.



Picture 7. Patterns Interface

3.2.Adding Pattern

Go to PATTERNS interface --> Click “New Pattern” --> Select a Pattern type --> Input a Pattern name --> press the “Add” button. See Picture 8.

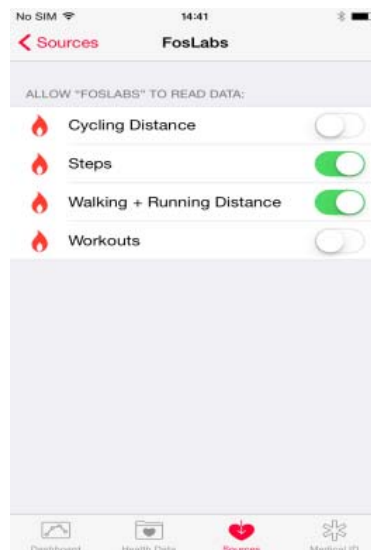


Picture 8. Adding a Pattern

There are eight kinds of Pattern types:

Time, Text, Video, StopWatch, TimeRemaining, Navigation, DistanceTraveled, DistanceRemaining.

Note : The data of DistanceTraveled and DistanceRemaining comes from Health APP of Iphone. The Sources setting of Health should be open to Foslabs. See Picture 9.



Picture 9. Sources setting of Health

3.3.Editing Pattern

Note: StopWatch、Navigation、DistanceTraveled、DistanceRemaining are un-editable.

3.3.1. Editing Time Pattern

Go to PATTERNS interface --> Press the "Edit" button under a Time Pattern --> Select a time format --> Select a color --> Click "<" to save and return. See Picture 10.



Picture 10. Editing a Time Pattern

There are three kinds of Time formats:

HH : MM : SS, HH : MM 24, HH : MM 12.

And four kinds of colors: White, Red, Green, Blue.

3.3.2. Editing Text Pattern

Go to PATTERNS interface --> Press the "Edit" button under a Text Pattern --> Input a text --> Select a color --> Click "<" to save and return. See Picture 11.



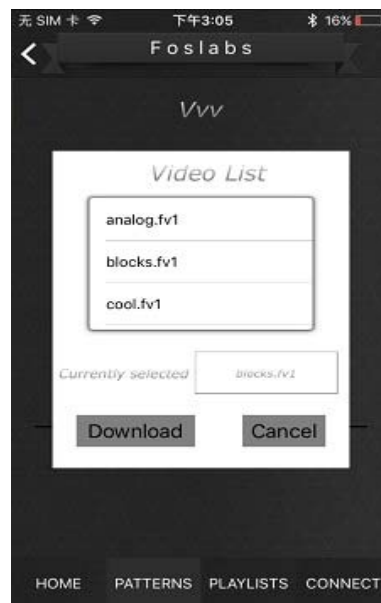
Picture 11. Editing a Text Pattern

Text can be Chinese character, English, Digital and symbol.

Four kinds of colors are available: White, Red, Green, Blue.

3.3.3. Editing Video Pattern

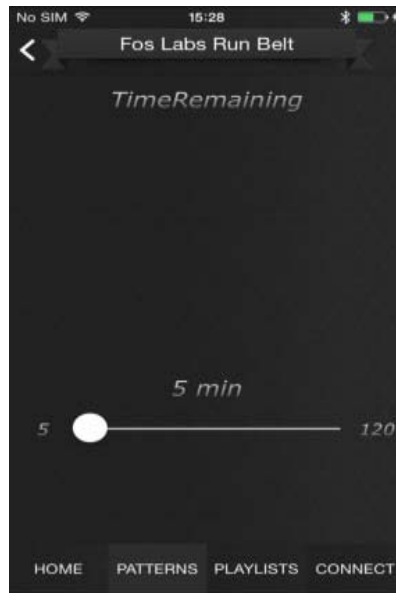
Go to PATTERNS interface --> Press the "Edit" button under a Video Pattern --> Click "Select Video" --> Select a video file in the Video List --> Click "Download" --> Click "<" to save and return. See Picture 12.



Picture 12. Editing a Video Pattern

3.3.4. Editing TimeRemaining Pattern

Go to PATTERNS interface --> Press the "Edit" button under a TimeRemaining Pattern --> Slide the dot to set a time (5-120min) --> Click "<" to save and return. See Picture 13.



Picture 13. Editing a TimeRemaining Pattern

3.3.5. Editing Navigation Pattern

Navigation pattern is un-editable.

Runbelt device can display "Rider" , "stop" , "slow" , "<---" , and "--->" according to moving status of iPhone.

3.3.6. Editing DistanceTraveled Pattern

DistanceTraveled pattern is un-editable.

3.3.7. Editing DistanceRemaining Pattern

DistanceRemaining pattern is un-editable.

3.4. Previewing Pattern

Make sure Bluetooth connected --> Go to PATTERNS interface --> Press the "Preview" button under a pattern to preview.

3.5. Modifying Pattern Name

Go to PATTERNS interface --> Click the name of a Pattern --> Input a Pattern name --> Click "Complete" . See Picture 14.

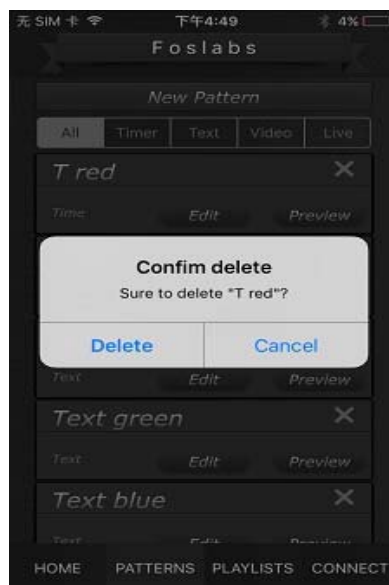


Picture 14. Modifying a Pattern Name

3.6. Deleting Pattern

3.6.1. Pattern not in Playlist

Go to PATTERNS interface --> Click the "X" symbol of a Pattern on top right corner --> Click "Delete" . See Picture 15.

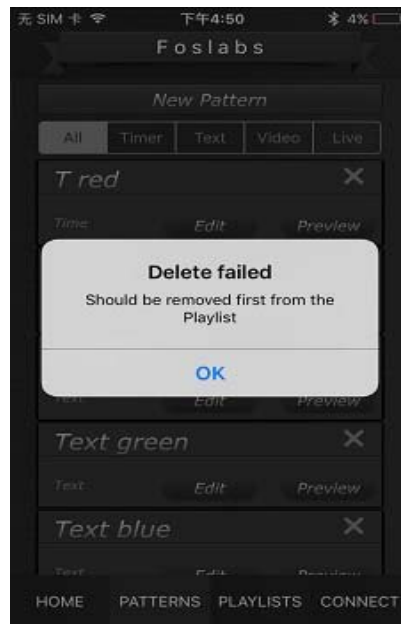


Picture 15. Deleting a Pattern

3.6.2. Pattern in Playlist

If a Pattern been added to a Playlist, it can't be deleted directly. It should be removed from Playlist first. See Picture 16.

(See "4.3.4. Removing Pattern from Playlist" to find out how to remove a Pattern from Playlist.)



Picture 16. Deleting a Pattern Failed

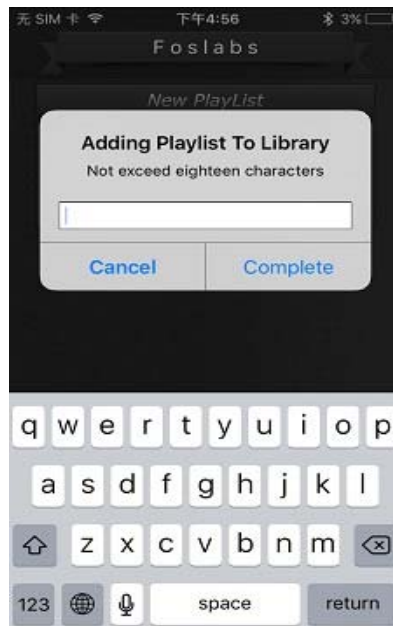
4. Playlists

4.1. Playlists Interface

Open FOSLabs --> Click PLAYLISTS menu;

4.2. Creating Playlist

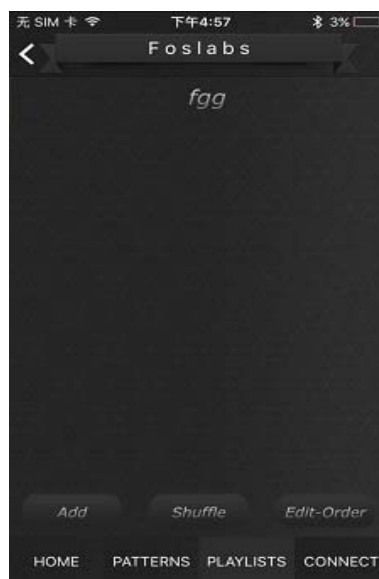
Go to PLAYLISTS Interface --> Click "New Playlist" --> Input a Playlist name -- Click "Complete" . See Picture 17.



Picture 17. Creating a Playlist

4.3. Editing Playlist

Go to PLAYLISTS Interface --> Press the "Edit" button under a Playlist. See picture 18.



Picture 18. Editing a Playlist

4.3.1. Adding Pattern

Go to Editing PLAYLISTS Interface --> Press the "Add" button --> Select a Pattern --> [Input Length of Pattern] --> Click "Add" . See picture 19.



Picture 19. Add a Pattern to Playlist

The range of time length: 0-30s

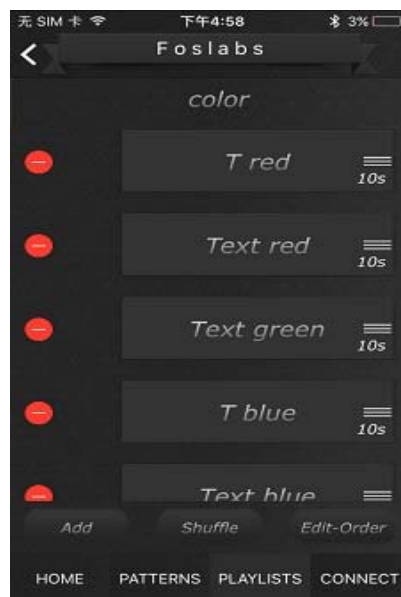
Maximum Patterns of a Playlist: 10

4.3.2. Shuffling Pattern

Go to Editing PLAYLISTS Interface --> Press the "Shuffle" button. Then the order of a Playlist can be changed randomly.

4.3.3. Editing Pattern Order

Go to Editing PLAYLISTS Interface --> Press the "Edit-Order" button --> Press and drag the "≡" symbol of a Pattern up and down to change order --> Press the "Edit-Order" button again to return. See Picture 20.

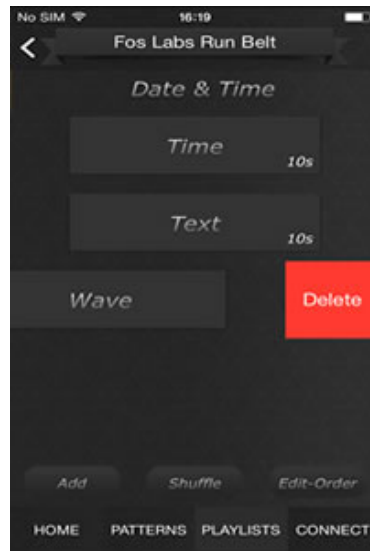


Picture 20. Editing a Pattern Order

4.3.4. Removing Pattern from Playlist

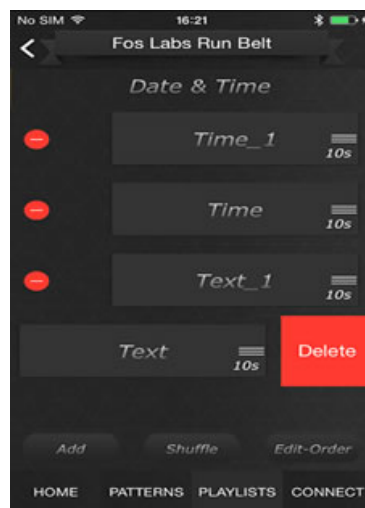
Two ways:

1. Go to Editing PLAYLISTS Interface --> Slide a Pattern to the left --> Click "Delete" on the right of a Pattern. See Picture 21.



Picture 21. Removing a Pattern from Playlist

2. Go to Editing PLAYLISTS Interface --> Press the "Edit-Order" button --> Click the red dot on the left of a Pattern --> Click "Delete" on the right of a Pattern. See Picture 22.



Picture 22. Removing a Pattern from Playlist

4.4. Loading Playlist

Make sure Bluetooth connected --> Press the "Load" button under a Playlist. Then device will load data from iPhone and display the Playlist.

Note: The display of Navigation, DistanceTraveled and DistanceRemaining on device need Bluetooth connection all the time.

4.5. Previewing Playlist

Make sure Bluetooth connected --> Press the "Preview" button under a Playlist. Then device will load data from iPhone and preview the Playlist.

4.6. Modifying Playlist Name

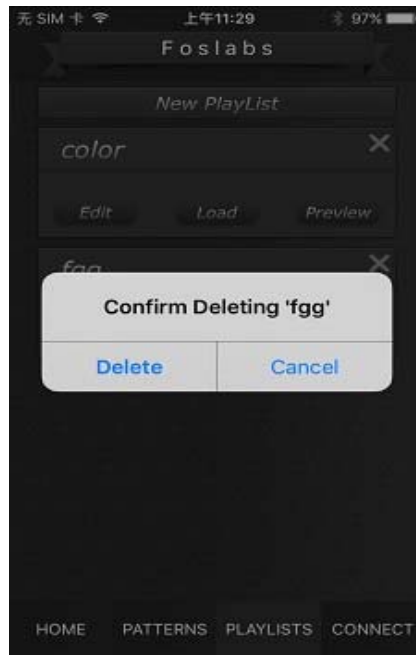
Go to PLAYLISTS Interface --> Click the name of a Playlist --> Input a Playlist name --> Click "Complete" . See Picture 23.



Picture 23. Modifying a Playlist Name

4.7. Deleting Playlist

Go to PLAYLISTS Interface --> Click the "X" symbol of a Playlist on top right corner --> Click "Delete" . See Picture 24.

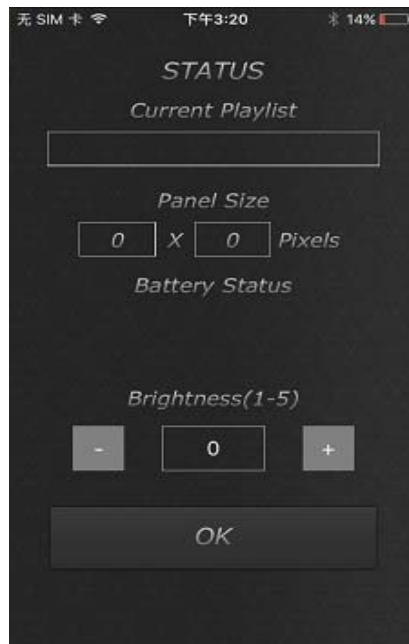


Picture 24. Deleting a Playlist

5. Active P&P

HOME menu --> Active P&P.

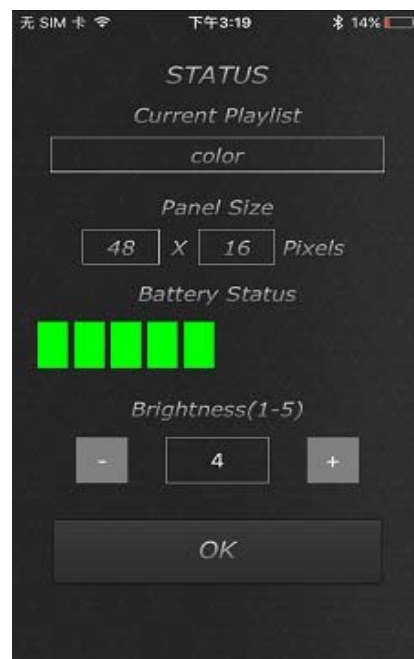
When there is no Bluetooth connection with device, Active P&P interface looks like this:



Picture 25. Bluetooth not Connected

When there is Bluetooth connection with device and a Playlist was

loaded to device, Active P&P Interface looks like this:



Picture 26. Bluetooth Connected

Loaded Item: Name of the Loaded Playlist.

Panel Size: Size of Runbelt LED screen.

Battery Status: Remaining power of Runbelt battery.

Brightness: Brightness of LED. Press "add" or "less" to adjust it.

6. Sleep/Wake

Make sure Bluetooth connected.

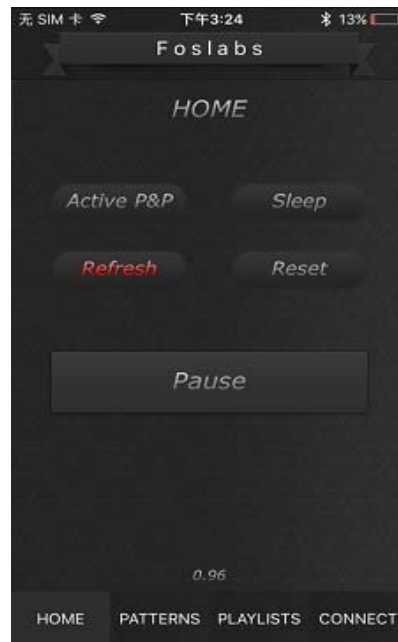
Press "Sleep" to turn off LED lights. When "Sleep" is pressed, "Sleep" turns to "Wake" .

Press "Wake" to turn on LED lights. When "Wake" is pressed, "Wake" turns to "Sleep" .

7. Refresh

When a loaded Playlist is modified, the "Refresh" button in HOME interface turns to red color. It reminds of reloading the loaded Playlist to take changes into effect.

When the red “Refresh” button is pressed, the loaded Playlist will reload and display from the beginning. See Picture 27.



Picture 27. Refresh

8. Reset

Make sure Bluetooth connected.

When the “Reset” button is pressed:

1. The loaded Playlist will display from the beginning.
2. The data of StopWatch and DistanceTraveled in a loaded Playlist will be set to zero.
3. The data of TimeRemaining and DistanceRemaining in a loaded Playlist will be set to initial settings.

9. Start/Pause

Make sure Bluetooth connected.

When the “Start” button is pressed:

1. The “Start” button turn to “Pause” .
2. The paused display continues to display.

When the "Pause" button is pressed:

1. The "Pause" button turn to "Start" .
2. The display will be paused.

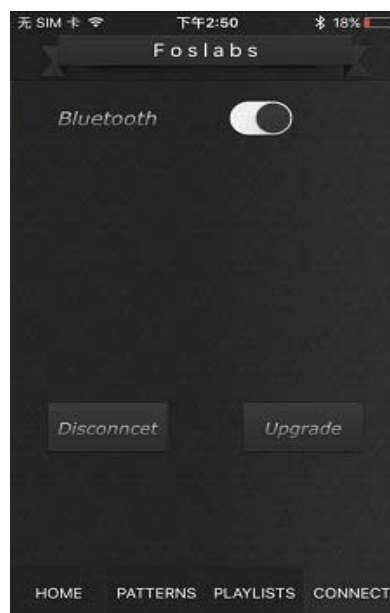
10. Upgrade

10.1. Upgrade of FOSLabs

Download and install the new FOSLabs from <http://www.pgyer.com/kshq>.

10.2. Upgrade of Device

Make sure Bluetooth connected. Press the "Upgrade" button to upgrade. See Picture 28.



Picture 28. Upgrading Device Software

11. Device Buttons

11.1. Button 1

Two functions for button 1:

1. Press button 1 for 3 seconds to start up or shut down device.

2. Press button 1 to adjust the brightness level of LED (Increase 1 lever per press, 0-5 brightness levels).

11.2. Button 2

1. Press button 2 for 3 seconds to check display of LED.
2. Press button 2 to display the next Pattern in a loaded Playlist.

12. Matters Need Attention

Don't bend Runbelt device too much so as not to damage it.

13. FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.