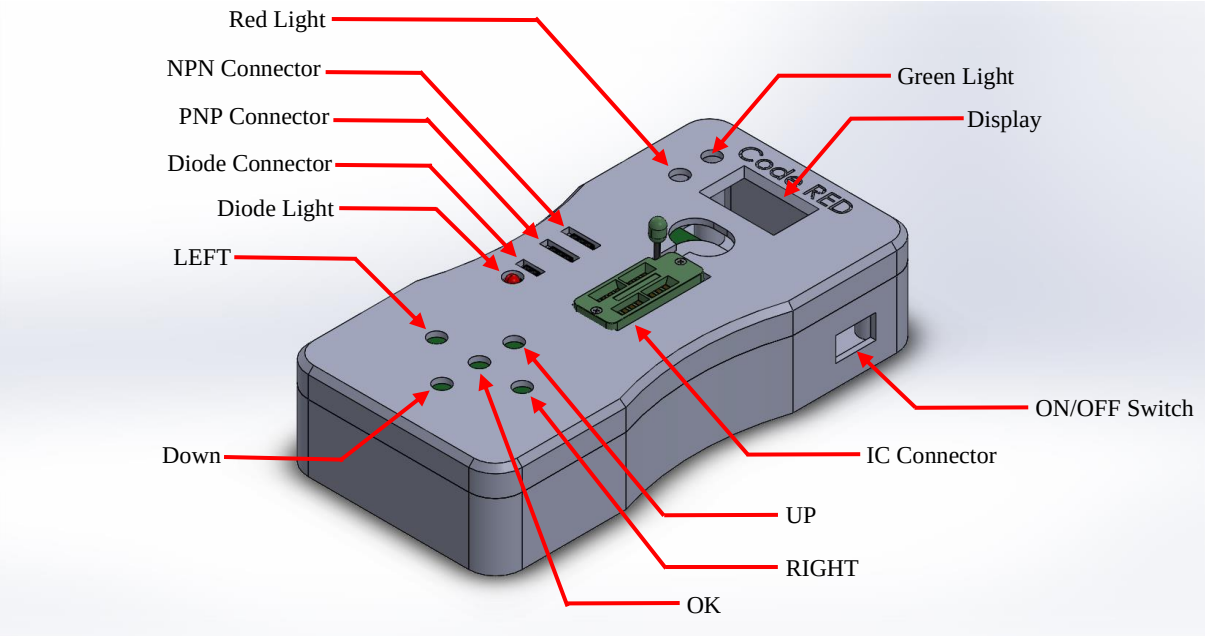
Component Tester by *CodeRed*

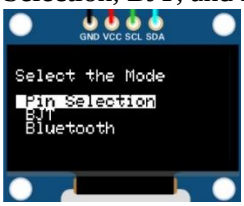
User Manual



1. First you need to power up the device.

2. Then switch on the device using ON/OFF Switch.

3. Then you will automatically go to our home page. You can see 3 modes in the display: Page Selection, BJT, and Bluetooth.



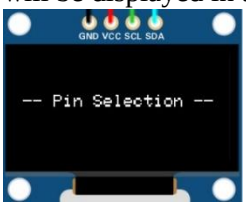
4. If you need to check a diode simply connect the diode and if the diode is working, the Diode Light near the diode connecter will light up.

5. If you are going to check an IC which is included in our database you need to select Pin Selection. If you are going to check a BJT you need to select BJT. If you are going to use our mobile app you need to select Bluetooth.

6. You can select the mode using the UP and DOWN keys and simply press OK to go to that mode.

Pin Selection Mode:

1. After selecting Pin Selection and pressing OK you will go to the pin selection mode. The mode will be displayed in the display.



2. Connect your IC to the IC connector. Make sure you have properly connected the IC.

3. You will be automatically moved to the next display. There you have to select the number of pins of your IC. Use the UP and DOWN keys to select the number and press OK to confirm.

4. Then you get the IC list in the display. Press right to go to the next page. Press LEFT to go to the previous page. Select the IC using UP and DOWN keys. After selecting the correct IC press, OK to confirm.

5. Then you can see the testing message in the display.

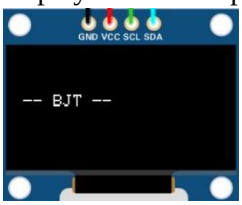
6. If your IC passed all the test cases the Green Light will light up and you get a message in the display.

7. If your IC failed one or more test cases the red light will light up and you get a message of the number of test cases passed out of the total test cases.

8. If you need to retest the IC press RIGHT or press LEFT to go to the home page.

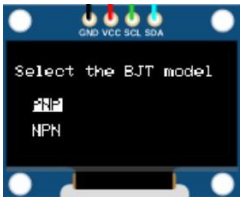
BJT Mode:

1. After selecting BJT and pressing OK you will go to the pin selection mode. The mode will be displayed in the display.



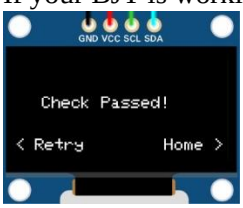
2. Connect your BJT to the corresponding connecter. Make sure you have connected the BJT properly.

3. You will be automatically moved to the next display. There you have to select the type of your BJT (NPN or PNP) there. Use the UP and DOWN keys to select the type and press OK to confirm.



4. Then the BJT type that you have selected can be seen in the display.

5. If your BJT is working the Green Light will light up and you get a message in the display.

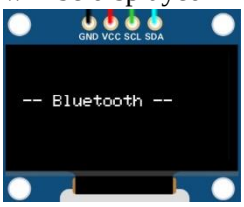


6. If your BJT is not working the red light will light up and you get a message in the display.

7. If you need to retest press RIGHT or press LEFT to go to the home page.

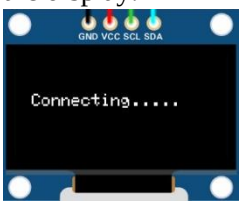
Bluetooth Mode:

1. After selecting Bluetooth and pressing OK you will go to the pin selection mode. The mode will be displayed in the display.



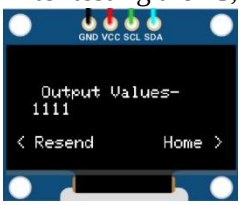
2. Connect the IC properly to the IC connector. Make sure that the IC has been properly connected.

3. Then the device will be connected to your phone. The connecting message will be displayed in the display.



4. Then you can control the device using our mobile app.

5. After testing the IC, you can see the values of the output pins in order in the display.



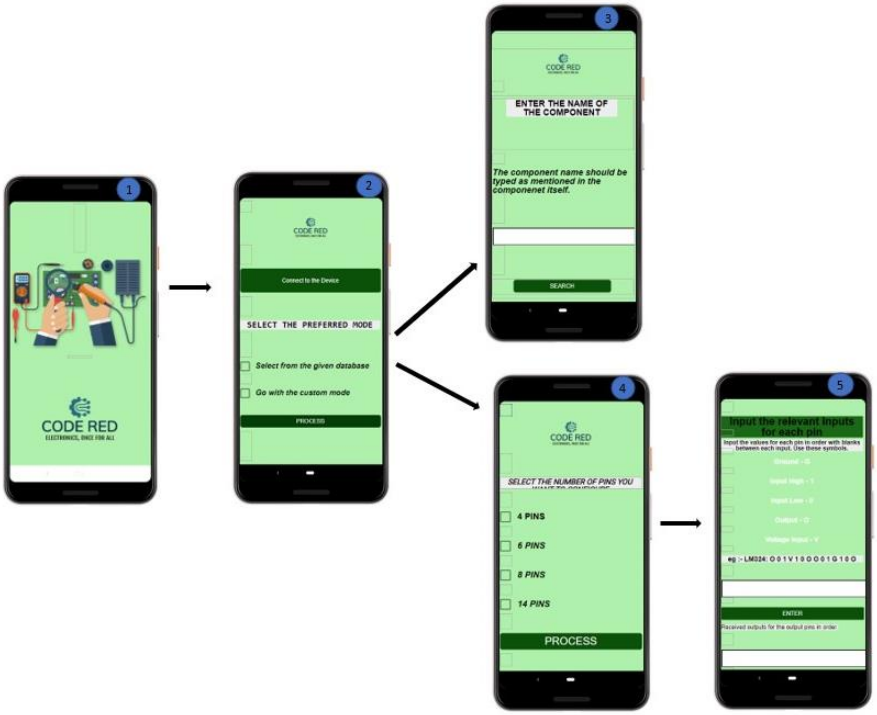
6. If you need to retry press Left and If you need to go home page press RIGHT.

Mobile application:

1. By using the app we are able to go with two modes.

2. As shown in screen 2 we can select the component from the provided database or go with the custom mode.

3. In the custom mode we need to select the number of pins of the IC we are going to test.



4. And as in screen 5 we must input a string which contains the configuration of each pin in their order. The configuration of each pin should be mentioned using the exact symbols provided.
   Ground – G
   Input High – 1
   Input Low – 0
   Output – O
   Voltage input - V

5. We are able to receive the reading of each output pin in order after the testing is completed. It will be displayed on the textbox below in screen 5.

6. Debugging of the device can also be done using this custom mode.

7. By using the below QR code you would be able to download the CodeRed app.