Technical Manual Rev 1r0







The e-Gizmo Heart Rate Monitor kit a simple pulse sensor to your finger tip and ready to read your heart rate. A very useful design for studying your activity and monitoring your heart beat to have a live heart-rate data like medical equipment for your project.

FEATURES:

- With Pulse indicator
- High signal output
- Pulse sensor on board
- Compatible in all gizDuino MCU boards

GENERAL SPECIFICATION:

- Supply Input: +5V DC

- On board IC peripheral: LM324

- On board sensor: CNY70

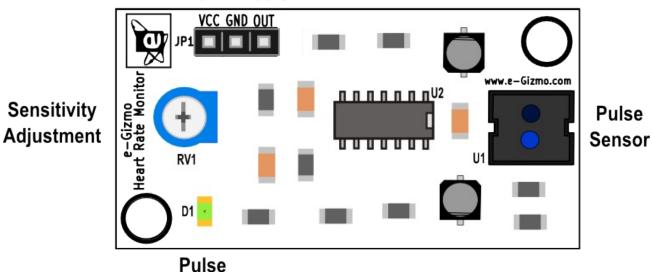
- Sensing Distance: 0.3 mm

- PCB Dimension: 44 mm x 23 mm



Pulse

+5V DC **Input Supply**



Indicator

Figure 1. Major parts presentation of e-Gizmo Heart Rate Monitor kit

Table 1. JP1 connections and descriptions

VCC GND OUT

PIN Name Descriptions

VCC + 5V DC Supply Input **GND** Ground connection OUT Analog Output connection





Figure 3. RV1 Illustration



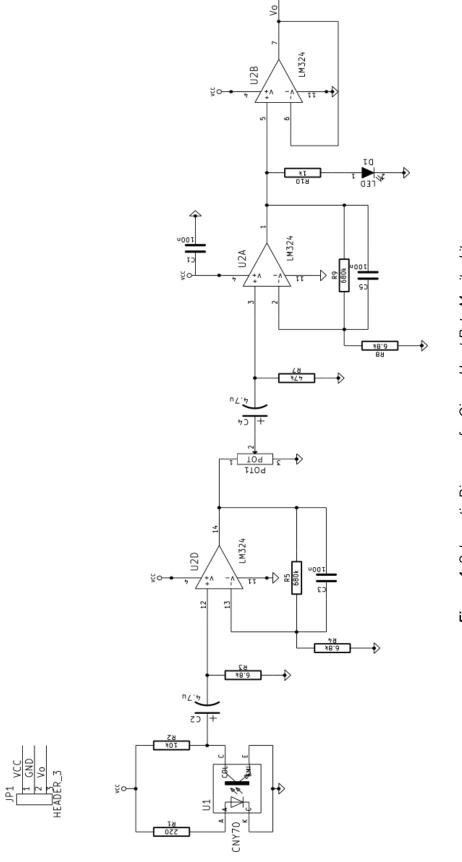


Figure 4. Schematic Diagram of e-Gizmo Heart Rate Monitor kit



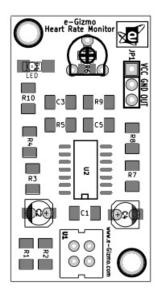


Figure 5. Parts Placement

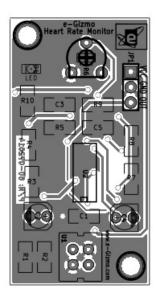


Figure 6. BottomPCBGuide

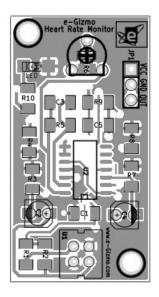


Figure 7. TopPCBGuide



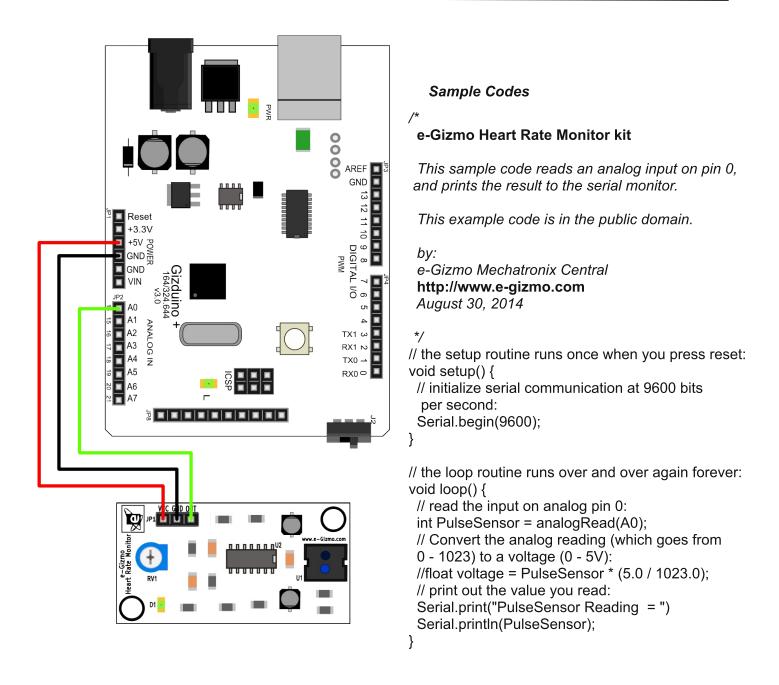


Figure 8. Sample Application of e-Gizmo Heart Rate Monitor kit with Sample codes.