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RCmall TFmini/TF02
Lidar Range Finder
Sensor Module OR
Ublox NEO M8N
GPS Compass
Module OR UNO R3
FZ3000 FZ3065
DR1683 FZ0972

★★★★★5.0

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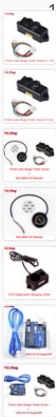
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1/31

Product Details

Feedback (30)

Shipping & Payment

Seller Guarantees

Czech
Republic via
China Post
Registered
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Estimated
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Time: 19-
30 days

Quantity:

- 1 +

piece (4648

pieces


available)


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Item specifics

Brand Name: RCmall

Drones Accessories Type: Drone Boxes

Package: Yes

Model Number: FZ3000 FZ3065 DR1683 FZ0972

Product Description

RCmall TFmini/TF02 Lidar Range Finder Sensor Module OR Ublox NEO M8N GPS Compass Module for Pixhawk4 Flight-Controller OR UNO R3 FZ3000 FZ3065 DR1683 FZ0972

Description

TFmini Lidar Range Finder Sensor Module

TFmini is a single-point micro ranging module and could be widely used in the integrated application of various drones, UAVs, Robots and industrial equipments. It is based on ToF (Time of Flight) principle and integrated with unique optical and electrical designs, so as to achieve stable, precise, high sensitivity and high-speed distance detection.

Features:

Operating Range : 0.3-12m

Maximum operating range at 10% reflectivity : 5m

Applicable voltage range : 4.5-6V

Average power consumption : 0.12W

Acceptance angle : 2.3°



Data bit:8

Stop bit:1

Parity bit:0

Minimum resolution ratio : 5mm

Light sensitivity : 70,000lux
 Accuracy : 1% (less than 6m), 2% (6m-12m)
 Size : 42mm * 15mm * 16mm
 Weight : 6.1g
 Main applications:Drone altitude holding and terrain following Machine control and safety sensor Robot distance detection
 Certification:CE,FCC,ROHS


Ublox NEO M8N GPS Compass Module for Pixhawk4 Flight-Controller

Features:
 NEO-M8N GPS Module
 Receiver type 72-channel u-blox M8 engine
 GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1
 SBAS L1 C/A: WAAS, EGNOS, MSAS
 Galileo-ready E1B/C (NEO-M8N)
 Nav. update rate1 Single GNSS: up to 18 HZ
 Concurrent GNSS: up to 10 Hz
 Position accuracy2 2.0 m CEP
 Acquisition2 Cold starts: 26 s
 Aided starts: 2 s
 Reacquisition: 1.5 s
 Sensitivity2 Tracking & Nav: -167 dBm
 Cold starts: -148 dBm
 Hot starts: -156 dBm
 Assistance AssistNow GNSS Online
 AssistNow GNSS Offline (up to 35 days)3
 AssistNow Autonomous (up to 6 days)
 OMA SUPL & 3GPP compliant
 Oscillator TCXO (NEO-M8N/Q),
 Crystal (NEO-M8M)
 RTC crystal Built-In
 Noise figure On-chip LNA (NEO-M8M). Extra LNA for lowest noise figure (NEO-M8N/Q)
 Anti jamming Active CW detection and removal.
 Extra onboard SAW band pass filter (NEO-M8N/Q)
 Memory ROM (NEO-M8M/Q) or Flash (NEO-M8N)
 Supported antennas Active and passive
 Odometer Travelled distance
 Data-logger For position, velocity, and time (NEO-M8N)

Specifications:
 GPS line order:
 black wire: GND
 Green line: TX
 Yellow Line: RX
 Red Line: + 5V
 White Line: SDA
 Orange Line: SCL
 Diameter: 53mm/2.1 inch
 Delivery size: 93 x 132mm/3.7 x 5.2 inch
 Net weight: 31g

TF02 LIDAR LED Rangefinder Single Point Ranging IP65 22M Benewake for Arduino Pixhawk Drone

TF02 is a newly developed product based on the widespread application experience of TF01. It possesses a higher performance and is applicable to more fields. On the basis of preserving multiple advantages from the last generation,

 system, product structure, fusion algorithm, a 22-meter-long range and a more stable in innovative production process and multiple software and hardware optimizations, Benewake upgrades LiDAR truly to a consumer level and makes it applicable in numerous fields.

Feature:

Protection grade reaches IP65
Anti-corrosive against pesticide
Small in size and light

Major Applications:
Drone altitude holding and terrain following
Machine control and safety sensors
Distance measuring instrument

UNO R3 ATmega328P ATmega16U2 with USB Cable Compatible for Arduino

Description:
Microcontroller: ATmega328P
Operating Voltage: 5V
Input Voltage (recommended): 7-12V
Digital I/O Pins: 14 (of which 14 provide PWM output)
Analog Input Pins: 6
DC Current per I/O Pin: 40 mA
DC Current for 3.3V Pin: 50 mA
Flash Memory: 32 KB (ATmega328) of which 0.5 KB used by bootloader
SRAM: 2 KB
EEPROM: 1 KB
Clock Speed: 16 MHz

Package Includes:

TFmini

1 X TFmini Lidar Range Finder Module
1 X Cable

TFminiX2

2 X TFmini Lidar Range Finder Module
2 X Cable

TFmini and GPS Module

1 x NEO-M8N GPS Module
1 x Two-sided sticker
1 X TFmini Lidar Range Finder Module
1 X Cable

GPS Module

1 x NEO-M8N GPS Module
1 x Two-sided sticker

TF02

1 X Benewake TF02 LIDAR LED Rangefinder Single Point Ranging IP65 22M

TFmini and UNO R3

1 X TFmini Lidar Range Finder Module
1 X Cable
1 X UNO R3 ATmega328P
1 X USB Cable

UNO R3

1 X UNO R3 ATmega328P
1 X USB Cable

Product Pictures

TFmini Lidar Range Finder Sensor Module



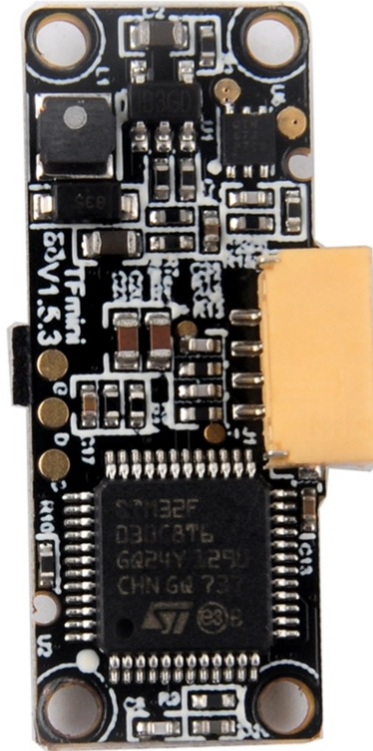
Single-Point Micro Ranging Module



TFmini Micro Lidar Module









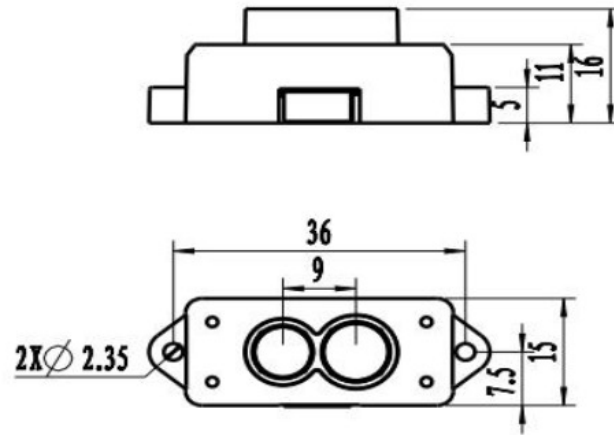
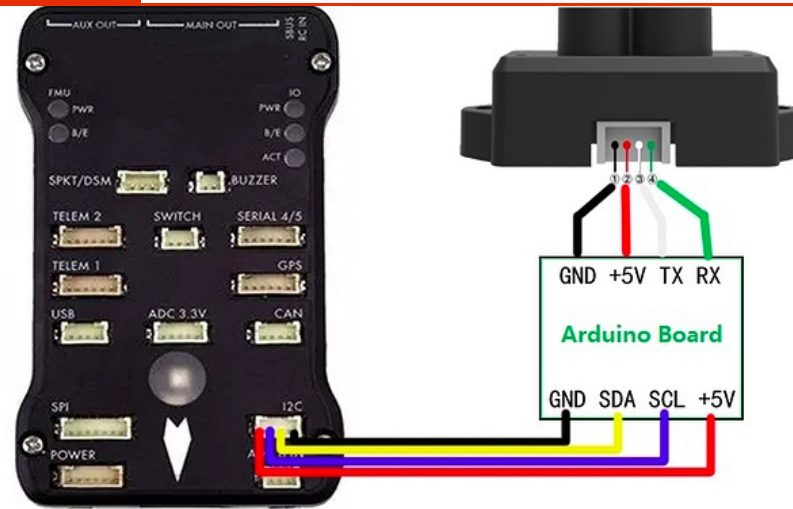


Fig. 6 TF_mini left module size drawing (unit: mm)







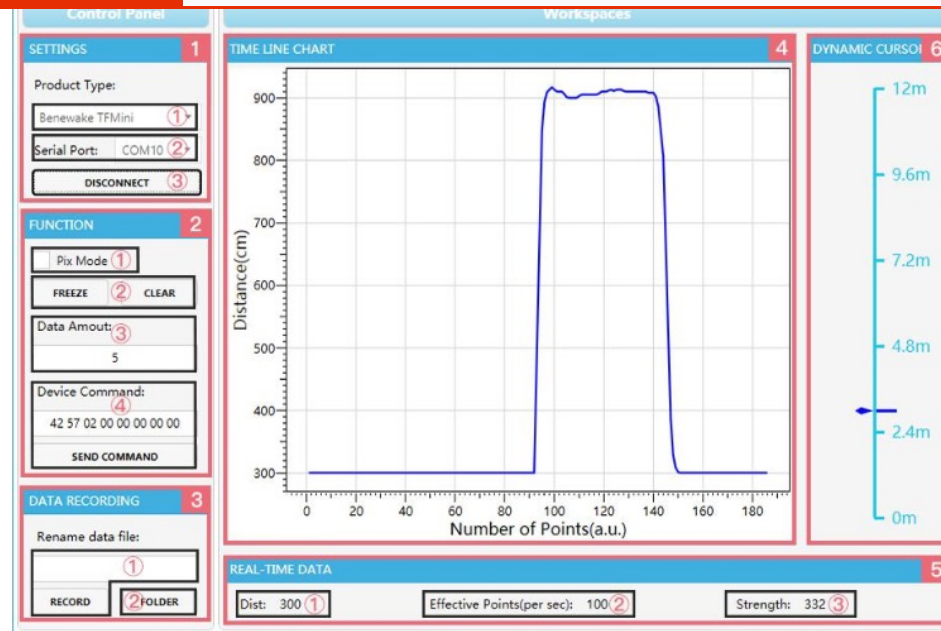
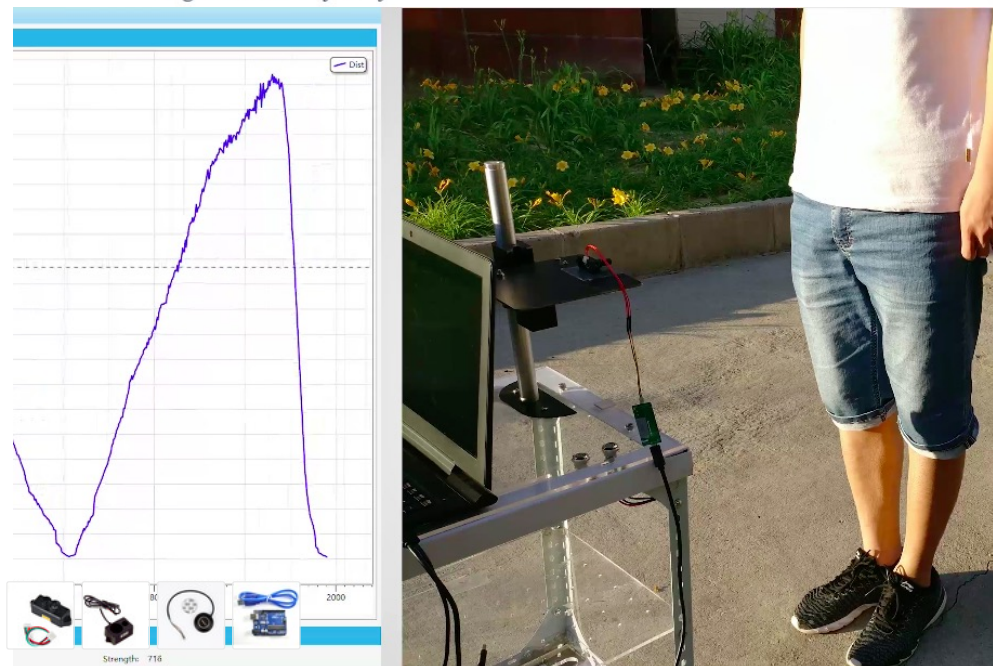


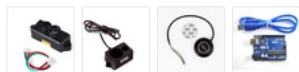
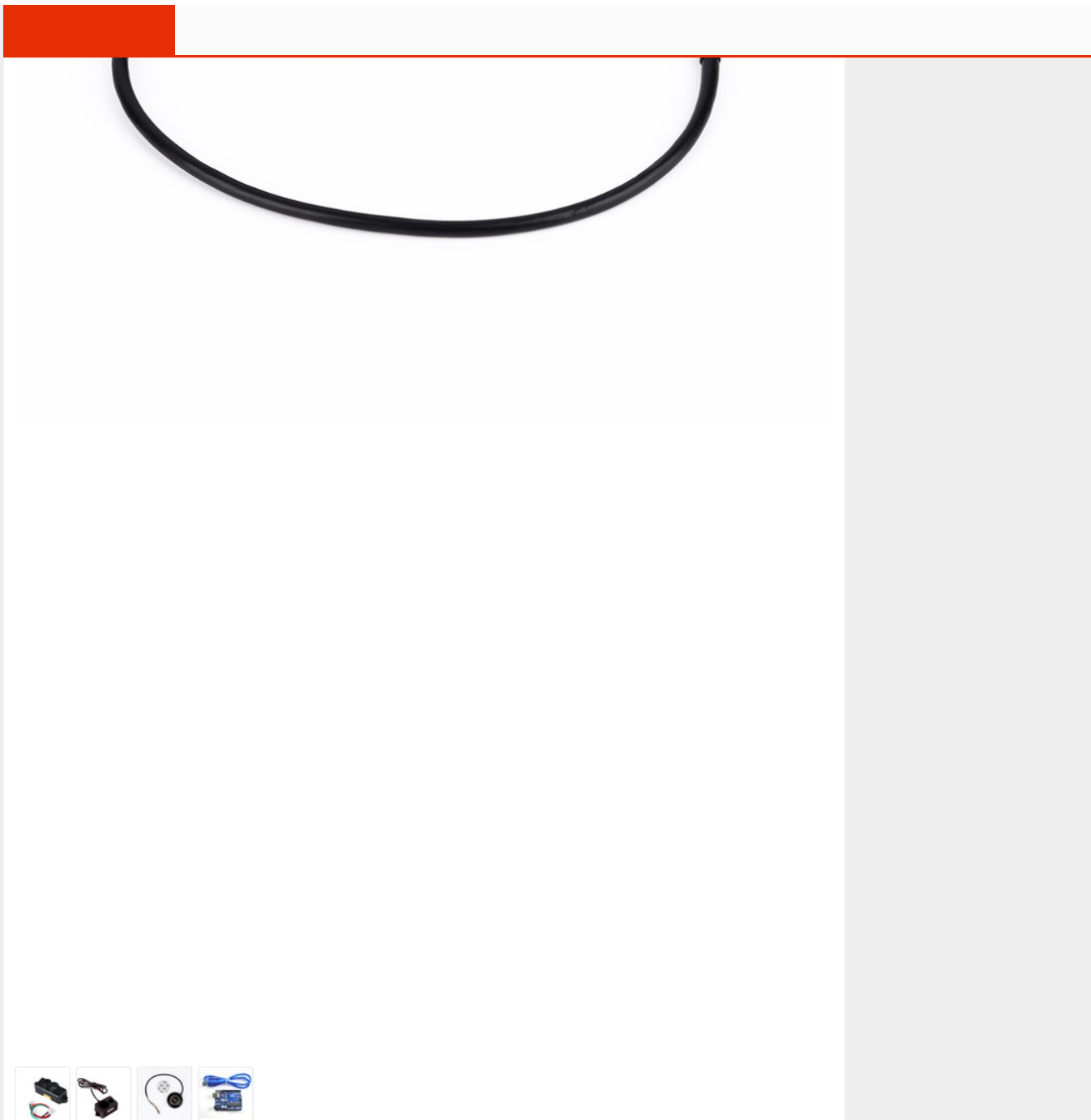
Fig. 5 Client Interface of Distance Measurement Demonstration in Windows



Ublox NEO M8N GPS Compass Module for Pixhawk4 Flight-Controller













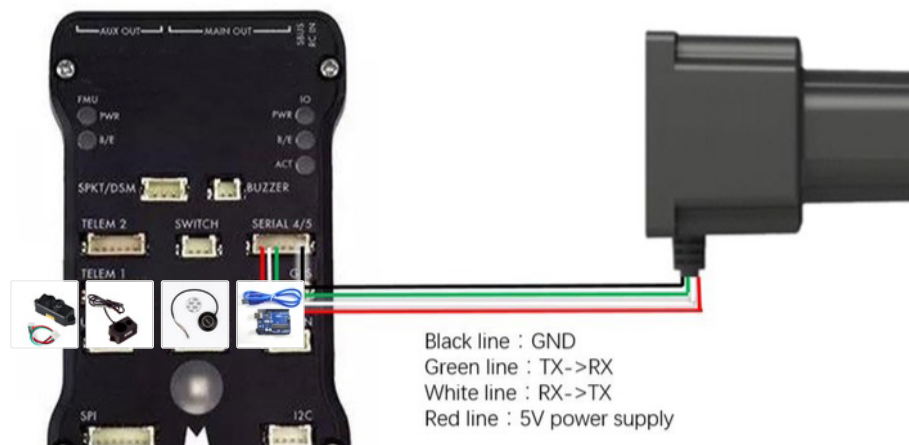


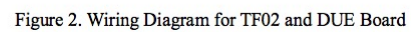
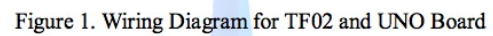


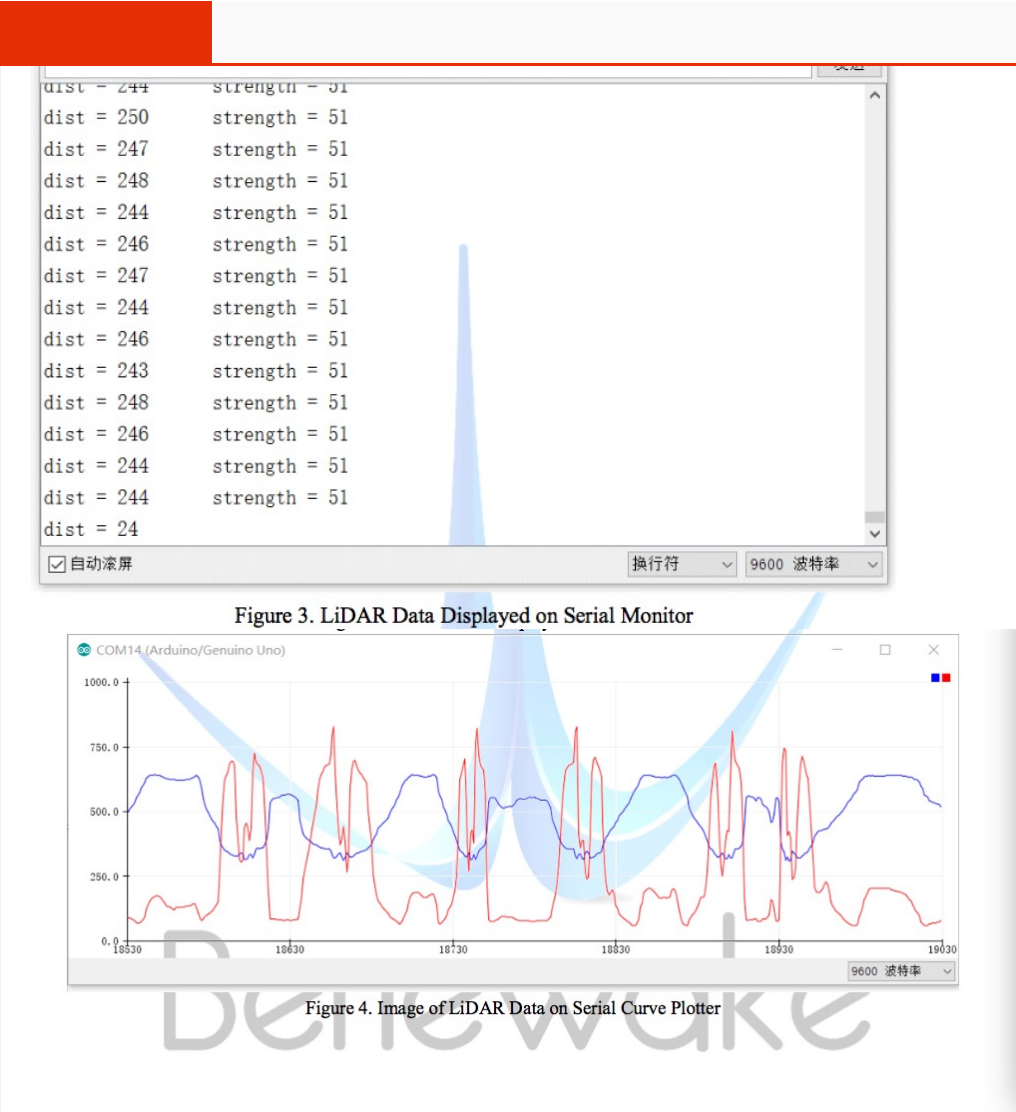
TF02 LIDAR LED Rangefinder Single Point Ranging IP65 22M Benewake for Arduino Pixhawk Drone



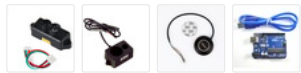
The optimal range can be up to 22 m
With the high frequency real-time measurement
TF02 possesses impeccable data processing algorithms
making product ranging perform more stably



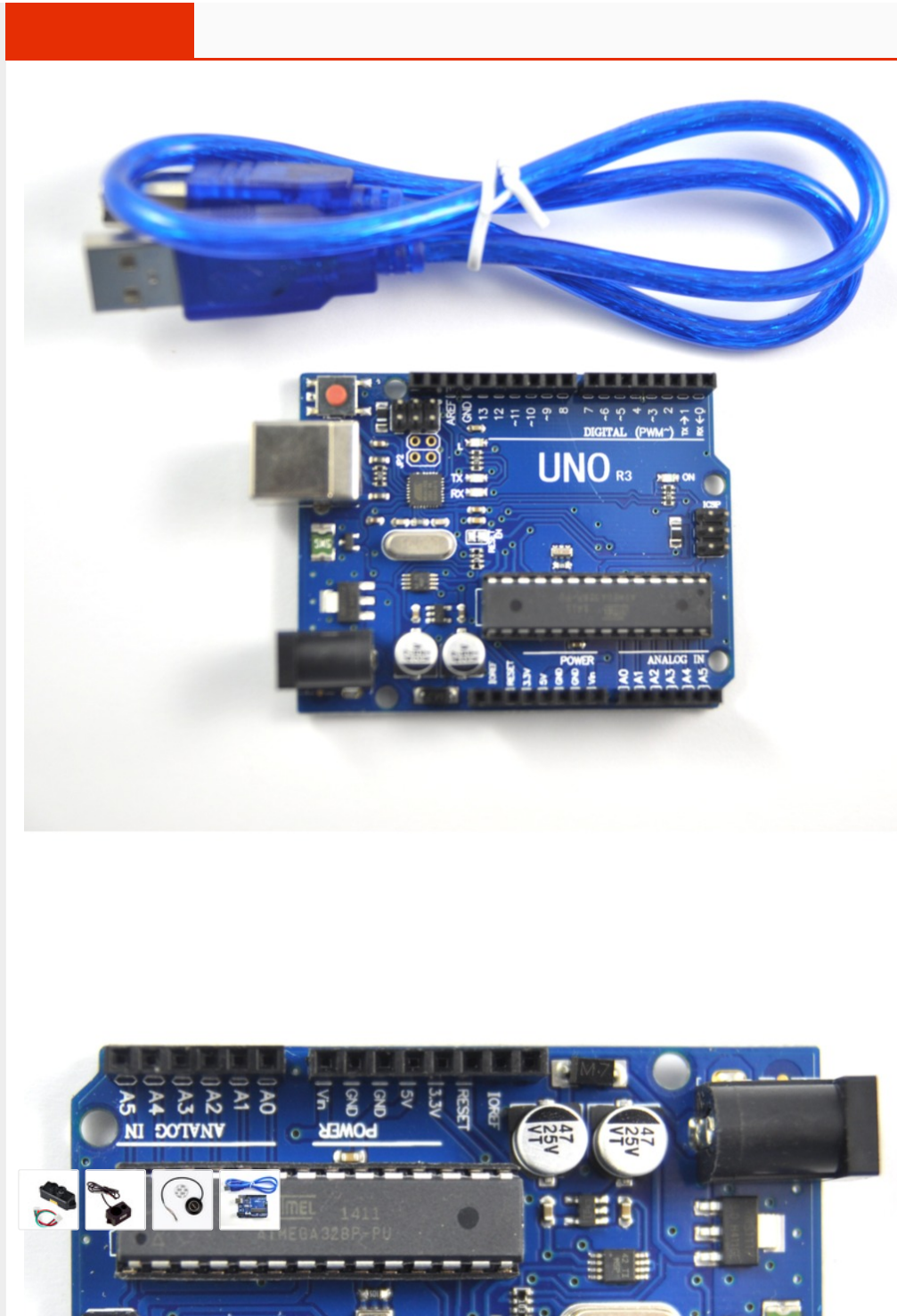


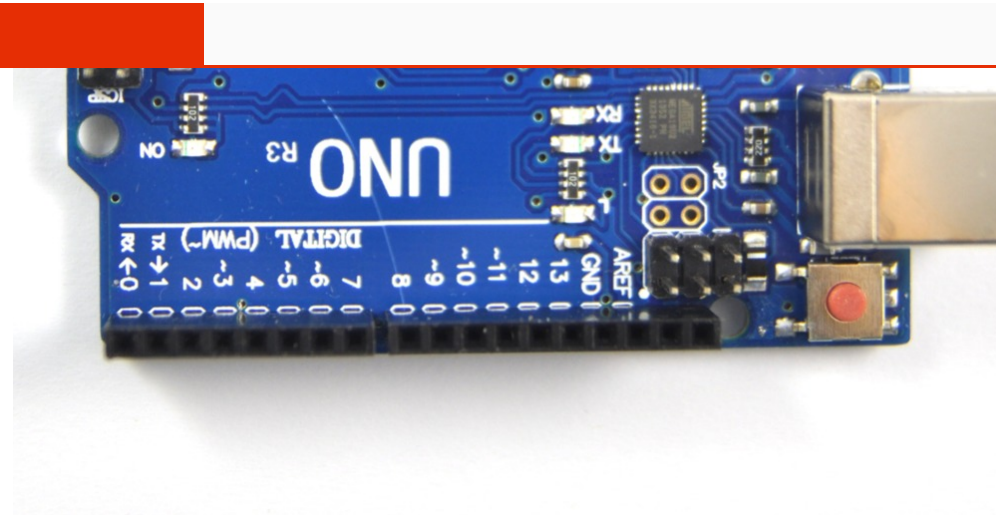


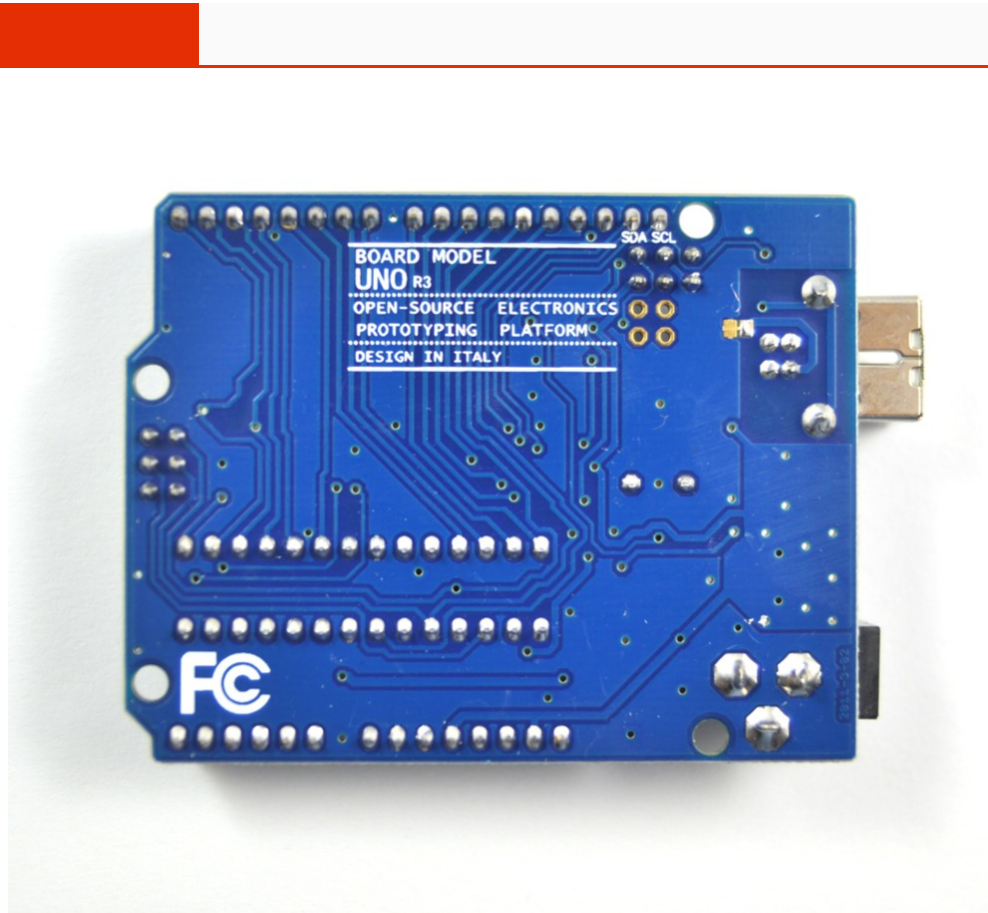
UNO R3 ATmega328P

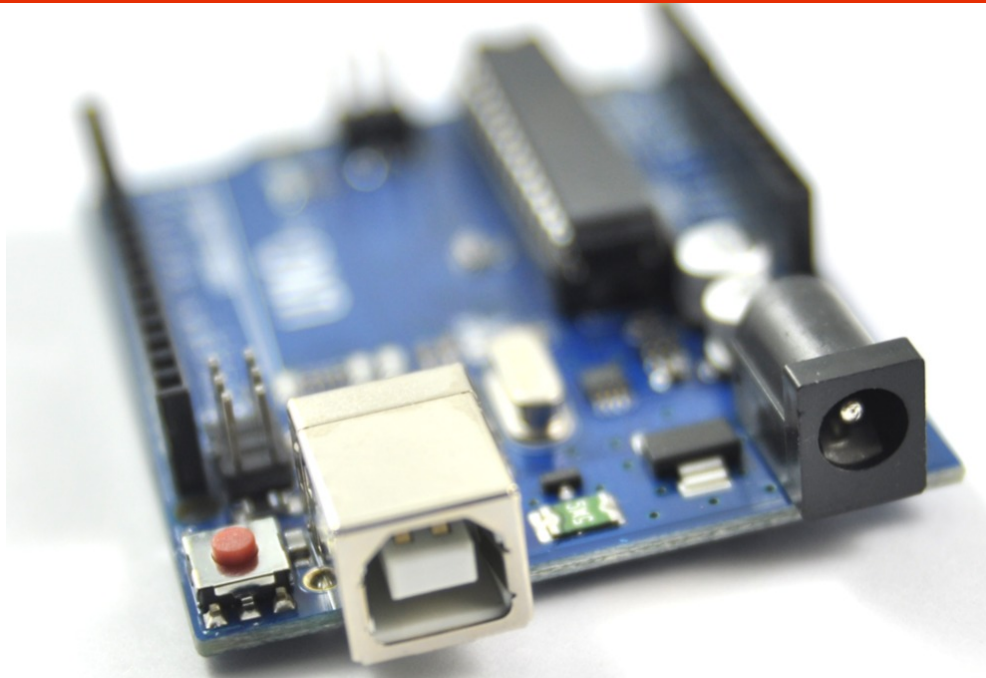













Packaging Details


Unit Type: piece

Package Weight: 0.025kg (0.06lb.)





3.7in x 1.18in x 0.79in)






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