How to get raw data (UART) of TF series lidar via Arduino - TF03 UART

serial_port_utility_latest.exe

1, Software

a, serial_port_utility_(Any common serial/COM software is OK)

b, Arduino IDE

2, Hardware Connection

Connect TFseires lidar to Arduino





王抬與2270 王抬與2270 王抬與2270 王抬與2270 王抬與2270 王抬與2270 王抬與2270

₹2²⁷⁰ 王抬束²²⁷⁰ 王抬束²²⁷⁰ 王抬束²²⁷⁰ 王抬束²²⁷⁰ 王抬束²²⁷⁰ 王抬束²²⁷⁰

王怡英 2270 王怡英 2270 王怡英 2270 王怡英 2270 王怡英 2270 王怡英 2270 王怡英 2270

122¹⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰

王抬束²²⁷⁰ 王抬束²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰

22¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰ 王抬英²²¹⁰

王始與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰ 王治與²²⁷⁰

1,22⁷⁰ 王始與22⁷⁰ 王怡與22⁷⁰ 王怡與22⁷⁰ 王怡與22⁷⁰ 王怡與22⁷⁰ 王怡與22⁷⁰

TF03 UARTArduinoUART_RXD Blue wire colorTXUART_TXD Brown wire colorRX5V5VGNDGND

3, Communication

Check if the hardware connection is ok, then open the software.

1) Upload 'TF03_UART_test.ino' to Arduino UNO

Monitoring data via Arduino 'Serial Monitor'

2) Monitoring data via serial_port_utility_

a, choose 'COM-X-Enhanced COM Port' and other settings as below

Serial Port Utility						
File Edit View Tools	Control Help					
📄 🚥 🕨 📗		÷	王怡英2270	王怡爽2210		
Serial Port Se	tting	王怡爽2270	王祚	爽2270	王怡爽2270	
Port COM8	3 -					
Baudrate 1152	200 -					
Data Bits 8	•					
Parity None	2 - 19 10 270					
Stop Bits 1	-					
Flow Type None	王治束2270 ▼	270	王怡英2270	王怡英 2270		
💿 TF-series_test Arc	duino 1.8.5					
File Edit Sketch Too	Is Help	于怡爽2270	EM	·爽 2270	王怡爽2270	
	Auto Format	Ctrl+T				
TF-series test	Archive Sketch					
WWO#include (Li	Fix Encoding & Reload	Chill, Shift, M				
	Serial Plotter	Ctrl+Shift+I				
/* IMP 270	MCE101 Firmuran Underson	Curr Smith E	王作			
This program is	WIFITUT FIRMWARE Opdater			of TFmini-Plus p	roduct	
王治邦 2270	Board: "Arduino Uno"		>	王怡英2270		
For details, re	Port: "COM8"		Serial p	orts		
	Get Board Info		COM8		7-2270	
For Arduino boa	Programmer: "AVRISP mkll"		> the function	n of software v	Isual	
*/	Burn Bootloader					
-ur# 2270	101克 2270	270	2270			

b,click 'Start' , then will see the data

Remember to choose the 'Text'

Serial Port Utility					
File Edit View Tools Co	ntrol Help	270	270	s 2270	. . 2270
	■ 0 + -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flos		
┌ Serial Port Setti	ng — dist	= 291 strength =	780	in Temprature =	67.00 ce

	工始死亡	MIDE - LOL DEPENDEN - 700	chap remptation e	- 07100 - 00
5		dist = 290 strength = 787	Chip Temprature	= 67.00 ce
Port COM8	_	[15:31:55.210] dist = 291	strength = 791	Chi
D 1 1 445000		[15:31:55.226] dist = 290	strength = 786	Chi
Baudrate 115200	_	[15:31:55.235] dist = 291	strength = 793	Chi
D		[15:31:55.258] dist = 291	strength = 784	Chi
Data Bits 8	_	[15:31:55.283] dist = 291	strength = 793	Chi
D 11		dist = 291 strength = 795	Chip Temprature	= 67.00 ce
Parity None	_	[15:31:55.299] dist = 291	strength = 788	Chi
C. D.L. 4		[15:31:55.305] dist = 290	strength = 791	Chi
Stop Bits 1	–	[15:31:55.315] dist = 291	strength = 782	Chi
53-0 T		[15:31:55.334] dist = 292	strength = 787	Chi
Flow Type None	_	[15:31:55.346] dist = 292	strength = 787	Chi
		[15:31:55.354] dist = 292	strength = 793	Chi
Receive Setting		[15:31:55.374] dist = 291	strength = 785	Chi
Receive Secting		[15:31:55.409] dist = 291	strength = 791	Chi
G Taut C Have	王怡爽221	dist = 290 strength = 788	Chip Temprature	= 67.00 ce
Text Onex		[15:31:55.417] dist = 292	strength = 790	Chi
Auto Food Line		[15:31:55.424] dist = 291	strength = 787	Chi
Auto Feed Line		[15:31:55.434] dist = 292	strength = 796	Chi
Dicplay Sond		[15:31:55.453] dist = 292	strength = 787	Chi
🕶 Dispiay Sella		[15:31:55.505] dist = 291	strength = 781	Chi
🗸 Display Time		[15:31:55.534] dist = 291	strength = 789	Chi
Dispidy Time		[15:31:55.576] dist = 292	strength = 795	Chi
THE A	7-10-22-14-	[15:31:55.616] dist = 291	strength = 783	Chi
Send Setting		[15:31:55.654] dist = 292	strength = 788	Chi
U U		[15:31:55.663] dist = 291	strength = 795	Chi
⊂Text ⊙Hex		[15:31:55.674] dist = 292	strength = 791	Chi
Elex.	- I	[15:31:55.685] dist = 291	strength = 787	Chi
🗆 Loop 1000 🕂	ms	[15:31:55.694] dist = 292	strength = 792	Chi
		[15:31:55.712] dist = 292	strength = 783	Chi
		[15:31:55.733] dist = 291	strength = 792	Chi
		Elize	- モ怡が	

C, save the log



☑ Display T:	File nam	e:	J. HALER AT	T-14		1-10-10	~ 00	celcius celcius	de de
Send Setting Save as ty		: Message Log(*.txt)						celcius celcius	de de
C Text	∧ Hide Folders				Save	Cancel	00	celcius celcius	de de de
Loop 1000		[15:31:55.712] dis	it = 292	strength = 783	Chip	Temprature =	67.00	celcius celcius	de de
		[15:31:55.733] dis	Et = 291	strength = 792	Cn1p	iemprature =	67.00	celclus	ae

0 王的概²²⁷⁰ 王的概²²⁷⁰ 王的概²²⁷⁰ 王的概²²⁷⁰ 王的概²²⁷⁰ 王的概²²⁷⁰

王始與²²⁷⁰ 王始與²²⁷⁰ 王始與²²⁷⁰ 王始與²²⁷⁰ 王始與²²⁷⁰ 王始與²²⁷⁰

422¹⁰ 王怡與²²¹⁰ 王怡與²²¹⁰ 王怡與²²¹⁰ 王怡與²²¹⁰ 王怡與²²¹⁰ 王怡與²²¹⁰

王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰ 王抬英²²⁷⁰

₹1270 王怡東2270 王怡東2270 王怡東2270 王怡東2270 王怡東2270 王怡東2270

王始與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰

来22⁷⁰ 王治莱²²⁷⁰ 王治莱²²⁷⁰ 王治莱²²⁷⁰ 王治莱²²⁷⁰ 王治莱²²⁷⁰ 王治莱²²⁷⁰

王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰ 王抬與²²⁷⁰

4.2270 王怡英.2270 王怡英.2270 王怡英.2270 王怡英.2270 王怡英.2270 王怡英.2270 王怡英.2270

王始與²²⁷⁰王始與²²⁷⁰王指 王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指與²²⁷⁰王指

122¹⁰ 王怡英²²¹⁰ 王怡英²²¹⁰ 王怡英²²¹⁰ 王怡英²²¹⁰ 王怡英²²¹⁰ 王怡英²²¹⁰

王指英²²⁷⁰ 王指英¹²⁷⁰ 王指英²²⁷⁰ 王指英²²⁷⁰ 王指英²²⁷⁰ 王指英²²⁷⁰ 王指英²²⁷⁰

₹21⁷⁰ 王怡英²²⁷⁰ 王怡英²²⁷⁰ 王怡英²²⁷⁰ 王怡英²²⁷⁰ 王怡英²²⁷⁰ 王怡英²²⁷⁰

王怡與²²⁷⁰王怡與²²⁷⁰王怡與²²⁷⁰王怡與²²⁷⁰王怡與²²⁷⁰王怡與²²⁷⁰王怡與²²⁷⁰

015cm. 015cm. 015cm. 015cm. 015cm.