

AW-UWB-EV-200 USB/UART data protocol v0.02

1. Connection: USB cable
2. One data frame per second
3. Data frame format and description, data package format: json

	Filed	Type	Length	Range	Description
1	devild	string	--		Device id
2	Version	string	--		Firmware version
3	t	string	--		Timestamp in second
4	e	int	1	0/1	Presence state: 1:presence, 0:absence
5	d	float	--		Range of the Object, cm
6	fm	float	--	0-100	Fast move
7	r	float	--		RPM
8	b	float	--		BPM
9	rw	[float,float...]	20*17		Waveform of origin radar reflected signal, time window:20s,fps:17
10	rcw	[float,float...]	20*17		Waveform of respiration, time:20s,fps:17

4. Demo Python script : plot_demo.py

Pls install the Python environment according to readme.md.

5. Notices:

- (1) Check the tty Name and change corresponding source codes in plot_demo.py, as COMx for Windows or tty.* for Linux OS.

The position of source code as below:

```
def main():  
  
    recv = SerialCollect("COM3")  
  
    collect = threading.Thread(target=recv.recv)  
  
    collect.setDaemon(True)  
  
    .....
```

- (2) It will be 30 secs or longer for data processing and output after the device is powered on.