

BCI protocol (v1.1)

-----For Bluetooth & USB Oximeter

Package Length : 5 bytes

Transmit Rate : 50 Hz

Package Content :

Byte	Bit	Description
1	0~3	Signal strength (0~8)
	4	1=no signal, 0=OK
	5	1=probe unplugged, 0=OK
	6	1=pulse beep
	7	Sync bit = 1 (Package Head)
2	0~6	Pleth (0-100, invalid pleth=0)
	7	Sync bit = 0
3	0~3	Bargraph (0-15, invalid bar=0)
	4	Sensor off=1, 0=OK
	5	Pulse research=1, 0=OK
	6	Bit 6 of Byte 3 is bit 7 of the Pulse Rate
	7	Sync bit = 0
4	0~6	Bits 0-6 of Byte 4 are bits 0-6 of the Pulse Rate
	7	Sync bit = 0
5	0~6	SpO2 (0-100%)
	7	Sync bit = 0

Tips:

Invalid pleth = 0 Invalid Bargraph = 0

Invalid Pulse Rate = 0xFF Invalid Spo2 = 0x7F

Android demo: <https://github.com/zh2x/SpO2-BLE-for-Android> *

iOS demo: <https://github.com/zh2x/SpO2-BLE-for-iOS>

Change Log:

history	content	date
v1.1	Add android and iOS demo source github link.(The android demo is only suitable for BLE Oximeter, not for dual mode Oximeter.) Add change log.	2015 -11 - 10