QUICK START HERE

Wiz by Pocket Neurobics

(i) Product Suite

- Uwiz-4:   1/2/3/4 eeg channels, pIR HEG

- Q-wiz: 1/2/3/4 eeg chs, eeg Cap, pIR/nIR HEG

- U-wiz: 1/2 eeg channels

- X-wiz: 1/2 dc-coupled chs: nIR near-infrared blood oxygenation biofeedback, plus pIR passive-infrared forebrain temperature (metabolism) biofeedback

(ii) Software

- Windows, MAC, Android:

  - BioSignal.Network web app in browser

- Windows

  - EEGer

  - BioExplorer

  - BioEra

  - Better Fly

(iii) General Installation and Startup

USB Driver Installation

- On Windows, see www.biosignal.network/WizDriverForWindows.html

- On MAC, Android, Wiz just works.

Operation

- Uwiz-4, U-wiz & X-wiz do not have any buttons, plugging them into a USB will cause them to start transmitting. Any mode changes are commanded by the software

- Q-wiz has mode buttons, but in general again, mode changes will be commanded by the software

Modes

Current Mode is defined by the number of blinks of the Mode LED:

- No blinks – mode to update firmware

- 1 blink – HEG mode: 2 ch, 32sps

- 2 blinks – EEG mode: 2 ch, 128sps

- 3 blinks – ExG wideband (eg EMG): 2 ch, 512sps

- 4 blinks – EEG4 mode: 4ch, 256sps

Device & Signal Integrity

- At startup, a test signal is transmitted on each channel for five seconds

- EEG Electrode Impedance can be measured

  ○ off-line (ie momentary) on 4 channels

  ○ in real-time on 2 channels (Ch1 & Ch2)

- EEG variance is tested and evaluated as OK/not OK.

- HEG signals evaluated as in/out of range

- Signal evaluations are reported by

  ○ reversal on Mode LED blink on Wiz

  ○ sent to PC application

In case of fire

- *U4/U/X-wiz have pin-hole button on side to sequence through Modes: Program/1/2/3/4 blinks*

- *Pressing pin-hole button (or Mode button on Q-wiz) during Power-up will do factory reset. Lastest firmware version can then be uploaded using facility at BioSignal.Network*

Questions?

BioSignal.Network