

- Needs to acquire sufficiently accurate digital representation of an EEG signal
- Needs to transmit output wirelessly to a base station
- Capable of transmitting over a minimum range of 20m (indoors), 50m (outdoors)
- Needs to be capable of supporting 3 users simultaneously with one base station
- Needs to operate for at least 24 hours of continuous use on a mobile power source
- Needs to avoid using live mains due to safety considerations
- Needs to allow user to control on/off function on each device
- Needs to allow base station user to control and configure network
- Needs to display visual representation of acquired data
- Needs to cost less than \$500.00 per unit to manufacture