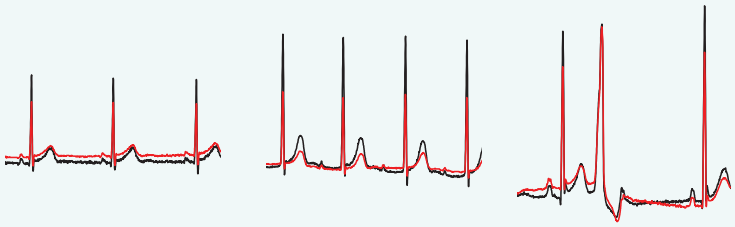
COGNIONICS DRY PAD ELECTRODE

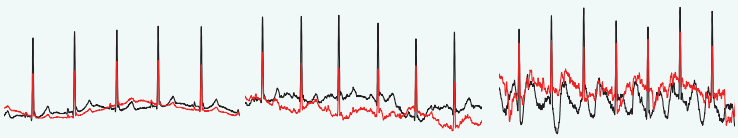
- Comfortable and non-irritating to the skin
- Reusable with minimal degradation of signal quality
- Low offsets, impedance and drift
- ‘Drop-in’ replacement for existing ECG/EEG/EMG systems
- Compatible with active and passive lead wires

‘Wet-Equivalent’ Signal Quality



Normal AV Block PVC

Evaluation on multiple subjects with different ECG morphologies. Simultaneous recordings from wet (black) and the Cognionics (red) sensor.



Standing Walking Running

Signal quality and artifact level is comparable to wet electrodes across different activities. The dry sensors are designed to work specifically with Cognionics harnesses which dampen movement while optimizing comfort. Optimal performance is achieved when the sensors, mechanics and electronics are designed together.

Advanced Sensor Construction

- Performance of any electrode is dependent on quality of electrolyte (body) to metal (electronics) interface
- Dry electrodes using bare metals traditionally have unstable electrochemical junction:
  - Large drifts and offsets
  - Movement artifacts
  - Noisy signal
- Cognionics solution combines the best properties of wet and dry electrodes
  - ✓ Dry surface to user’s skin
  - ✓ Cushioned sensor surface conforms to irregular body surfaces better than metal discs
  - ✓ Low-noise conduction between body and sensor
  - ✓ Stable Ag/AgCl Interface
- Use with Cognionics amplifiers and systems for optimal performance

Impedance	**10 - 100 KΩ on unprepared skin**
Electrode Material	**Ag/AgCl core**
Offset	**< 100mV (max.)**
Pad Diameter	**0.92” and 0.6”**

Contact Information:

Cognionics

info@cognionics.com