

duelite



www.dart-sas.it

OT Bioelettronica

Administrative Office:

Via Lancia, 62 - Sc. A
10141 Torino (Italy)

Laboratory:

Corso Unione Sovietica, 312
10135 Torino (Italy)
mail@otbioelettronica.it

otbioelettronica.it



Developed with **LISiN**, Politecnico di Torino (Italy)



duelite

user-friendly EMG



2 EMG channels



General description

DueLite is a wearable EMG probe designed to meet the most demanding needs in different applications, including sports, ergonomics and rehabilitation. DueLite records 2 EMG signals using Due probe.

DueLite can be upgraded by adding additional Due probes or additional DueBio probes (for biomechanical signals), up to 7 probes. DueLite works with PCs (with USB dongle), tablets and smart phones (direct communication). With DueLite users can perform acquisition, visualization and data processing using the OTBioLab+ software (free of charge), Matlab scripts and Android Apps. DueLite allows RMS web monitoring.

Smart EMG signals



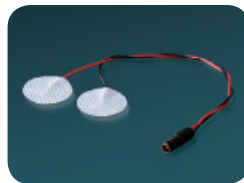
duelite

user-friendly EMG

Due support straps



Ag/AgCl electrodes



DueLite is specifically designed to provide users with indication of the timing and degree of muscle activity in highly dynamic activities (e.g., running, skiing, rowing). DueLite can be upgraded by adding additional Due probes or additional DueBio probes (for biomechanical signals), up to 7 probes.



Sports



end users



DueLite allows RMS web monitoring. DueLite suits well for prolonged recordings of muscle activity during particularly demanding work tasks and in complex work stations, signals can be web monitored.

Ergonomics

Technical data

| | |
|---------------------------------------|---|
| Class | II BF |
| Number of probes | 1 |
| Number of EMG channels for each probe | 2 |
| Number of additional probes | 6 (Due or DueBio) |
| Gain | 200 V/V |
| Bandwidth | 10 - 500 Hz |
| CMRR | >100 dB |
| Sampling frequency | 2048 Hz |
| Communication | Bluetooth 4.0 |
| Receiver | PC, Smartphone, Tablet (Android) |
| Resolution | 16 bits |
| Probe dimensions | 47 x 11 mm |
| Battery | 450 mAh (up to 11 h in continuous transmission) |
| Power supply | 1 cell Li-Po battery |
| Charging mode | wireless |

DueLite is a user-friendly and highly customizable interface for therapeutic interventions (e.g. via biofeedback) and for monitoring rehabilitation progress (e.g. degree of muscle tension, back pain).

Rehabilitation