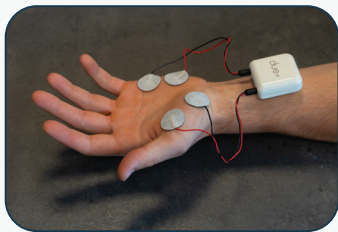


due+lite

dynamic EMG



CDE-C



Easy High Density
EMG Detection



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Technical data

Due+Lite	Class	I BF
	Total number of channels	2
Due+probe	Functions	Acquisition of 2 sEMG bipolar signals
	Bandwidth	10 – 500 Hz
	Sampling frequency	500 or 2000 Hz
	Noise	< 4 μV_{RMS}
	Power supply	Battery LiPo 3,7 V
	Battery life times	Power on: 6 hours Continuous transmission: 2.30 hours
	IMU	Integrated inertial sensor
	Resolution	16 bit
	Data transfer to PC	WiFi
	Receiver	PC
Weight	42g	

General description

General description Due+Lite is a wearable EMG device designed to meet the most demanding needs in different applications, including sports, ergonomics and rehabilitation. Due+Lite system is composed by 1 wireless probe (Due+) and one charger device (BipolarSC).

Due+Lite records 2 bipolar sEMG signals and has an internal integrated IMU.

The acquired data can be viewed in real time with OT BioLab+ software or with Matlab, Python and any other software capable of reading data from TCP socket.

Due+Lite 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).

Due+Lite suits well for prolonged recordings of muscle activity during particularly demanding work tasks and in complex work stations.

Due+Lite 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).

Features:

Due+ probe allows to acquire different types of signals:

- 2 sEMG bipolar signals;
 - quaternions obtained by the fusion of inertial sensor data.
- The Due+ probe interfaces directly to a PC with WiFi.

sEMG signal

