

sEMG Biofeedback FES

XFT-2003K



XFT-2003K sEMG Biofeedback FES is suitable for the repair and rehabilitation training of limb muscle motor function of paralyzed patients caused by stroke and other diseases. It can monitor the remaining weak active EMG signal strength of paralyzed patients in real-time, and trigger synchronous electrical stimulation according to the muscle strength represented by the EMG signal, thereby stimulating the patient's muscle contraction function to achieve the stretching movement of the paralyzed patients' limbs autonomously. It trains and restores the motor function of the patients' limbs, and prevents patients from muscle atrophy. The product also has the function of electromyographic detection to help doctors formulate scientific and effective rehabilitation training and treatment plans.

Intended Use

- ✓ Improve limb dysfunction caused by central nervous system damage such as stroke or incomplete spinal cord injury
- ✓ Improve voluntary movement
- ✓ Maintain or increase joint range of motion
- ✓ Prevent muscle contractures
- ✓ Prevent or delay disuse atrophy
- ✓ Increase local blood circulation

Working Modes

The stimulator collects the sEMG signal from the unaffected limb, and then delivers proper low frequency electrical stimulation to the certain muscles of the affected limb, making the movement of muscle contraction. In such way, the affected limb can move as freely as the unaffected one.



Innovative technology - Negative pressure electrodes + sEMG Biofeedback technology

The first sEMG biofeedback device is equipped with negative pressure electrodes, using adjustable suction negative pressure technology to ensure simple and convenient electrode attachment, stronger adhesion, better conductivity and more comfortable use.

