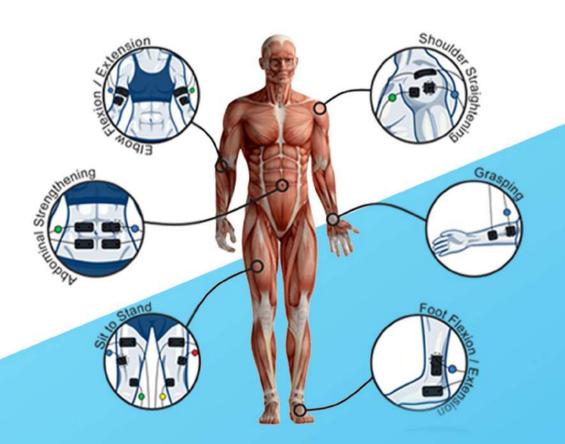




4 Channel

## **FUNCTIONAL ELECTRICAL STIMULATION**



BRIO FES - 4 channel is a type of therapy that uses electrical impulses to stimulate nerves & muscles, causing them to contract & produce a functional movement in a person with a neuromuscular disorder





## **Brio FES-4**

### **Benifits**

It is a sophisticated 4-channel system, each channel being individually programmable, and boasts a spacious capacitive colour touch screen interface. This design offers a high level of customization and user-friendly interaction, catering to the discerning needs of practitioners and facilitating seamless programming for diverse therapeutic protocols.

\$ Pre-Programmed protocol: The FES-4 system is equipped with a multitude of pre-programmed protocols stored internally. This feature allows users to initiate utilization with minimal parameter adjustments, streamlining the setup process for enhanced user convenience.

**\$ Customised protocol**: Empowering users with customization capabilities, the FES system facilitates the creation of personalized or patient-specific protocols. This can be achieved by meticulously adjusting individual parameters on each channel, subsequently storing the configured protocol within the equipment. With ample storage capacity, the device offers hundreds of dedicated spaces for users to seamlessly store & recall their protocols at their convenience.



- **\$ Hand Training Mode**: Introducing a specialized Hand Training mode, this feature empowers users to enhance patients' hand function through precise stimulation. Users have the option to stimulate each finger individually or employ sequential stimulation, providing a tailored approach to hand training within the FES system.
- **\$ Sequence and Step mode of operation**: Users are afforded the flexibility to administer stimulation to patients through two distinct modes within the FES system. The first option involves delivering stimulation at pre-defined time intervals, while the second, known as the Step Mode, allows users to employ a provided remote hand switch to trigger each phase of the sequence. This versatile functionality caters to diverse preferences and clinical requirements.
- **\$ Foot Switch**: The equipment features the capability to connect a wearable foot switch, providing a specialized functionality for GAIT training & addressing foot drop. This innovative feature enhances the versatility of the system, catering to the specific needs of users seeking comprehensive solutions for gait rehabilitation & foot-related conditions.

Brio FES-4 Can Make a Difference for Individuals with Various Conditions!

Spinal cord injury | Stroke | Multiple sclerosis | Cerebral palsy | Neurological & Neuromuscular disorders



FES can be used as a standalone therapy or in combination with other rehabilitation modalities, providing flexibility in treatment approaches. Ultimately, FES aims to enhance functional independence and quality of life for individuals with neurological and musculoskeletal conditions.



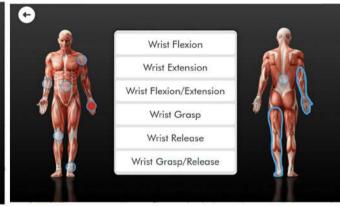
# Brio FES-4 Effect

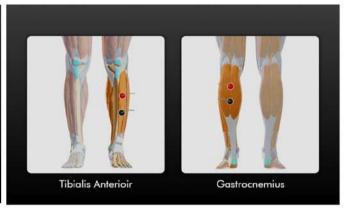
- 1. Reduced Spasticity: In some cases, FES can help reduce muscle spasticity, which is common in neurological conditions, making movements more comfortable and controlled.
- **2. Muscle Activation:** FES can selectively activate specific muscles or muscle groups, facilitating controlled muscle contractions. This is particularly beneficial for individuals with muscle weakness or paralysis.
- **3. Improved Muscle Strength :** By repeatedly stimulating muscles, FES helps improve muscle strength, preventing muscle atrophy and promoting functional movements.
- **4. Enhanced Motor Control :** FES can assist individuals in regaining motor control, which is vital for activities such as walking, grasping objects, or standing.
- **5. Pain Management :** FES can have analgesic effects, helping to reduce pain levels and improve comfort, making it useful for individuals with chronic pain conditions.
- **6. Increased Circulation :** The muscle contractions induced by FES stimulate blood flow, enhancing circulation to the targeted areas, which can aid in tissue healing.
- **7. Orthopaedic Applications :** FES can also be beneficial in orthopaedic rehabilitation for conditions like knee injuries, joint instability, and fractures.
- **8. Neuro Rehabilitation :** FES is commonly used in neurological rehabilitation to assist individuals with conditions such as stroke, spinal cord injuries, and multiple sclerosis in regaining function.
- **9. Urinary and Bowel Management :** FES can aid in bladder and bowel control for individuals with neurogenic conditions, helping to improve incontinence issues.



# FES at a Glance







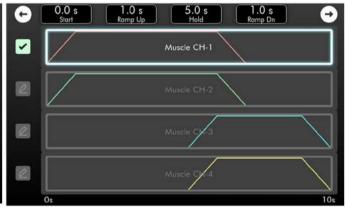
Main Screen

**Application Protocol** 

Electrode placement guide







**Hand Training** 

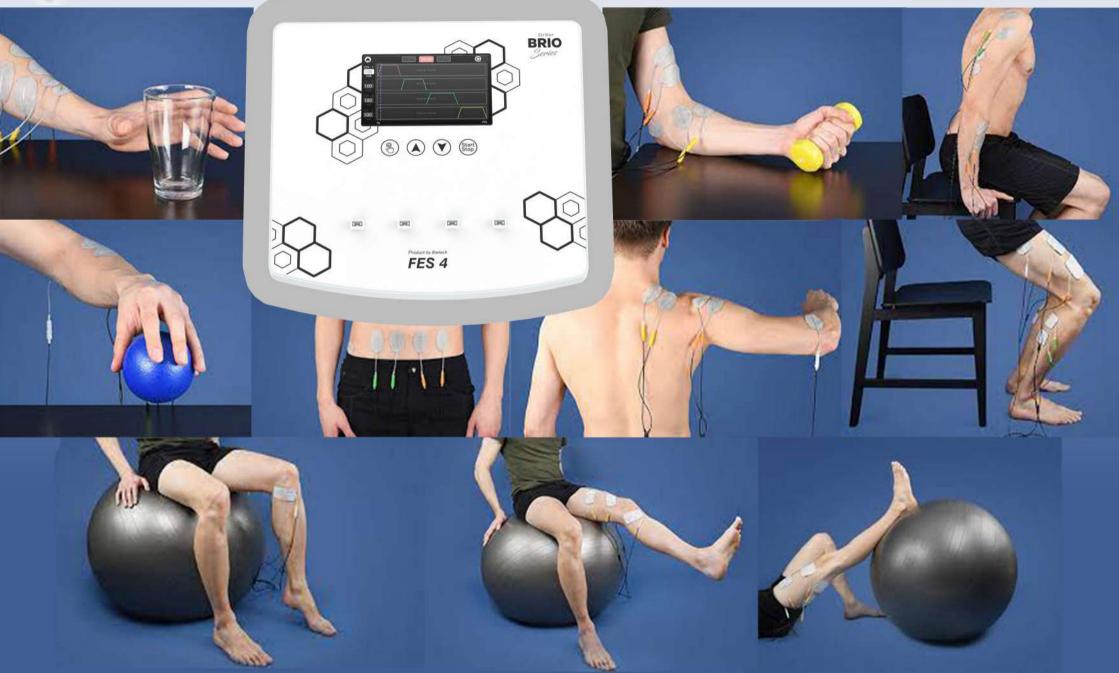
Pre Programmed protocol

User Defined Protocol



## **Examples of Different**

## **Functional Stimulation for Brio FES-4**





## **Connect with Biotech India Today!**

#### **BRIO FES 4 Technical Specifications**

Type: Micro-Controller Based

Output Channel: Four (8 Electrodes) Mode: Auto Mode & Step Mode"

**NMES** 

Frequency- 1 to 150Hz.

Pulse width: 30 to 500 micro seconds

Ramp Up/ Down - 1 to 10sec, On/Off time- 1 to 300sec

Intensity: 0-130 mA at 1K load in 4 channels individually variable

Selection of modes: Capacitive Touch Display.

Library: Clinical Library- 23

Timer: Upto 99Min

Display: 5" Capacitive Touch Screen

Buzzer Yes

Software: Upgradable Software facility Input Power Supply: 90 to 250V AC

Power Consumption: 0.5 KVA **Dimension** 260 X 275 X 100 MM

Dimention with packing 320 X 330 X 170mm

#### Standard Accessories

PN101541 - MAINS CABLE X1

PN102465 - O/P Cable X4

PN102639-Conductive Gel (250ml) x 1

PN101758-STRIKER 2x1.5"RUBBER ELECTRODE X8

PN102370-Straps: 30" One Set (4 pcs) and 18" One Set (4 pcs)

PN102580-BioTrode Self Adhesive Elcetrode pad 5x5cm (pack of 4 pcs) x 2

PN100642- Small electrodes for Hand training (pack of 8 pcs) x 1

PN103521-Brio FES 4 Hand switch

PN103462 - Brio FES 4 Footswitch

00304-Operating Manual CD X1

00109-Warranty Card X 1

#### **Optional Accessories**

28105- Carrying bag

00989-Sticking electrodes 1 pkt of 4 electrodes















Foot Switch

Hand Switch

Hand Electrodes

Rubber Electrodes

Biotrode Electrodes

**Output Cable** 

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