REFERENCE USER GUIDE

Applicable models: UNIK 4, BFB4, IP1, USF1

Manufacturer: Fisiocomputer

1. Quick Summary

Model	Device Type	Main Application	Key Highlight
UNIK 4	Multifunction physiotherapy device	Pain relief, rehabilitation, combined therapy	Integrates electrotherapy, laser therapy, ultrasound therapy, and magnetotherapy; can run two therapies simultaneously
BFB4	Dual-channel surface EMG biofeedback device	Motor rehabilitation, pelvic floor rehabilitation	Real-time graphic display, comparison of two muscle groups, and data storage
IP1	Localized hyperthermia device	Musculoskeletal therapy and rehabilitation support	RF-based heating with controlled treatment depth and temperature
USF1	Cryosonic cold ultrasound device	Pain, inflammation, edema, and soft-tissue rehabilitation	Combines 1 MHz ultrasound therapy with cooling down to -9.9°C

2. General Operating Principles

- The equipment should be operated only by personnel with appropriate professional training in hospitals, rehabilitation units, or physiotherapy settings.
- Before each treatment session, check the power supply, cables, treatment heads, electrodes, display, accessories, and the safety of the working area.
- Do not operate the device if there are signs of damage, poor contact, electrical leakage, cracked treatment heads, or accessories that do not match the required configuration.
- At the end of each session, clean the contact surfaces, treatment heads, and accessories according to the facility procedure; store the equipment in a dry place protected from impact and dust.

3. MODEL UNIK 4

Illustrative image - UNIK 4

Intended Use

UNIK 4 is a multifunction physiotherapy device that integrates four treatment modalities - electrotherapy, laser therapy, ultrasound therapy, and magnetotherapy - in a compact system. The device can combine two therapies at the same time and includes more than 200 preset treatment protocols to support pain relief, rehabilitation, and treatment preparation in professional settings.

Basic Components

- Central control unit.
- Electrotherapy accessories and compatible electrodes.
- Laser therapy applicator.
- 1 MHz waterproof ultrasound treatment head.
- Magnetotherapy assembly with two supports, each containing two solenoids.
- Connection cables, power input, and supplied accessories.

Reference Operating Procedure

Pre-operation preparation

- Place the device on a flat, dry, and well-ventilated surface; verify the 230V~/50Hz power supply.
- Inspect the main unit, connecting cables, treatment heads, electrodes, and accessories; do not use the device if there are signs of cracking, broken cables, or poor contact.
- Assess the treatment area and ensure that it is clean, dry, and suitable for the prescribed therapy.

Start-up

- Connect the power supply and switch the device on.
- Wait until the working interface is fully ready before attaching the treatment accessories.

Therapy and program selection

- Select one or two treatment modalities as required: electrotherapy, laser therapy, ultrasound therapy, or magnetotherapy.
- Choose a preset protocol or manually set the treatment parameters according to professional instructions.

Accessory connection

- Electrotherapy: attach the electrodes in the correct position and check adhesion and contact before increasing intensity.
- Laser therapy: connect the laser applicator to the correct port and position it accurately over the treatment area.
- Ultrasound therapy: connect the ultrasound head and apply an appropriate coupling medium before operation.
- Magnetotherapy: place the solenoid assembly or supports correctly for the selected treatment area.

Parameter setting

- Electrotherapy: select the appropriate waveform and intensity; the system supports two independent channels with output up to 100 mA at a 500 Ohm load.
- Laser therapy: the device uses a 904 nm laser with peak power up to 30 W.
- Ultrasound therapy: set the output level up to 3 W/cm², in continuous or pulsed mode, at 1 MHz.
- Magnetotherapy: adjust the output from 0 to 100 Gauss and select 5/10/20/50/99 Hz.

Treatment session

- Start at an appropriate parameter level and monitor the patient response throughout the session.
- Keep the treatment heads, electrodes, or magnetotherapy assembly correctly positioned; avoid movement that may reduce effectiveness or interrupt contact.
- When running two therapies simultaneously, monitor both active configurations.

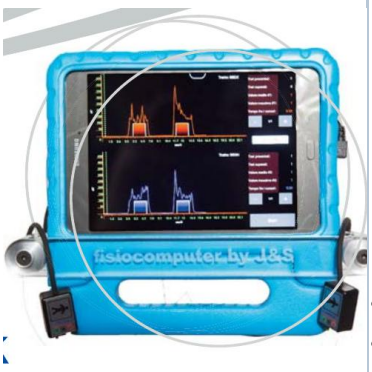
End of session

- Reduce settings to a safe level if necessary, stop the program, and switch the unit off.
- Remove the treatment accessories and clean the contact surfaces and treatment heads according to the facility procedure.
- Store the device and accessories in a dry area protected from impact and dust.

Safety and storage notes

- Operate only by personnel trained in physiotherapy or rehabilitation.
- Do not increase parameters or combine therapies outside professional instructions.
- Do not use damaged accessories, loose cables, or treatment heads with inadequate contact.

4. MODEL BFB4



Illustrative image - BFB4

Intended Use

BFB4 is a dual-channel surface electromyographic biofeedback device designed to detect, acquire, and display graphically the surface electrical potentials transmitted through nerve fibers. It supports visual-feedback rehabilitation exercises and allows real-time comparison between two muscle groups, which is especially useful for motor rehabilitation and pelvic floor rehabilitation.

Basic Components

- 8-inch tablet with dedicated software installed.
- Patient connection interface.
- Two patient signal leads.
- Adhesive electrodes and electrode accessories.
- Charger; power is supplied by the internal tablet battery.

Reference Operating Procedure

Pre-operation preparation

- Check the condition of the tablet, patient interface, two signal leads, and adhesive electrodes.
- Charge the battery adequately before use; ensure the skin area for electrode placement is clean, dry, and free from oil or moisture.

Start-up and session login

- Turn on the tablet and open the dedicated application.
- Select an existing patient record or create a new one before starting the exercise.

Accessory connection

- Connect the two patient leads to the device interface.
- Place the electrodes over the target muscle area and connect the leads with the correct color and position according to professional procedure.

Exercise setup

- Set the required parameters such as sensitivity, rest time, target intensity, target time, number of obstacles, display colors, and alarm thresholds.
- The device has sensitivity up to 2 µV/div, which is suitable for sub-threshold exercises or fine muscle activity monitoring.

Exercise session

- Guide the patient to perform the requested contraction or exercise shown on the screen.
- Monitor the EMG signal as a real-time graphic display; two muscle groups such as agonist and antagonist muscles may be compared.

Data saving and shutdown

- Save the session result to the patient record; print the data through a WiFi-connected device when required.
- Remove the electrodes, clean the skin and accessories, then close the software and recharge the battery if needed.

Safety and storage notes

- Correct electrode placement is essential for accurate feedback data.

• Do not use electrodes with poor adhesion, loose cables, or damaged accessories.
• Adjust the parameters carefully when performing pelvic floor rehabilitation or sub-threshold exercises.

5. MODEL IP1

Illustrative image - IP1

Intended Use

IP1 is a localized hyperthermia device that uses RF energy to concentrate heat in the treatment area at variable depths from approximately 1 cm to 8 cm. It is intended to support treatment of musculoskeletal disorders such as muscle pain, tendinitis, joint stiffness after trauma or surgery, spinal pain, osteoarthritis, and calcific periarthritis of the shoulder.

Basic Components

- Metal cabinet unit mounted on wheels.
- 7-inch TFT touch screen.
- Support arm and treatment applicator.
- Silicone fluid bolus used for coupling with the patient.
- Power supply and supplied accessories.

Reference Operating Procedure

Pre-operation preparation

- Place the device securely on a flat surface and lock the wheels if required.
- Check the switch, fuses, touch screen, support arm, applicator, and silicone temperature-control bolus.
- Identify the exact treatment area before positioning the applicator.

Start-up and mode selection

- Turn on the device and wait until the 7-inch touch interface is fully displayed.
- Select Smart Mode to set the three main parameters - target depth, temperature, and power - or Parameter Mode when more detailed adjustment is required.

Applicator preparation

- Adjust the support arm so that the applicator is aligned with the treatment area.
- Place the silicone temperature-control bolus between the applicator and the treatment area to ensure appropriate energy coupling.

Parameter setting

- The RF generator operates at 433.92 MHz with maximum output power of 100 W and a setting range from 0 to 100% in 5% steps.
- The main applicator has maximum operating power of 200 W, minimum energy transfer efficiency of 90%, and maximum treatment depth of 80 mm.

Treatment session

- Start the treatment at an appropriate level while monitoring forward and reflected power in real time.
- Observe the patient response throughout the heating process and adjust when necessary according to professional instructions.

End of session

- Stop energy delivery, remove the applicator from the treatment area, and return the support arm to a safe position.
- Clean the silicone bolus, applicator surface, and contact area; switch the device off after completion.

Safety and storage notes

- Do not operate the device when the applicator coupling is incorrect or when the silicone bolus does not provide adequate contact.
- Do not start the session at an excessively high power level.
- Always monitor treatment-area temperature and patient response throughout operation.

6. MODEL USF1

Illustrative image - USF1

Intended Use

USF1 is a Cryosonic cold ultrasound physiotherapy device that combines 1 MHz ultrasound therapy with cooling therapy down to -9.9°C. It is intended to support treatment of pain, inflammation, edema, and musculoskeletal soft-tissue disorders, especially in acute or subacute trauma and acute or subacute inflammatory conditions.

Basic Components

- Main unit, control assembly, and integrated trolley or support frame.
- Articulated arm and cold-ultrasound treatment head.
- IEC power cable, connecting hose assembly, and supplied accessories.

Reference Operating Procedure

Pre-operation preparation

- Place the device in a stable position and secure the wheels if required.
- Check the power input, IEC power cable, fuses, articulated arm, and treatment head.
- Clean the treatment area before beginning the procedure.

Device start-up

- Connect the device to power, switch it on, and verify the operating status of the system.

Output mode selection

- The device supports continuous output or pulsed output at 10/20/50/100 Hz.

Parameter setting

- Ultrasound frequency: 1 MHz.
- Power density adjustable from 0.1 to 3.0 W/cm².
- Cooling level adjustable down to -9.9°C.
- Treatment time adjustable up to 60 minutes in 1-minute steps.

Treatment-head positioning

- Adjust the articulated arm to position the treatment head correctly over the target area.
- Keep the treatment head stable over the treatment area; the device includes an epicyclic function that simulates circular movement of the treatment head across the treatment surface.

Treatment session and shutdown

- Start the configured program and monitor patient response continuously.
- After completion, stop the ultrasound/cooling output, return the treatment head to a safe position, clean the contact surface, and switch the device off.

Safety and storage notes

- Because the device combines the mechanical action of ultrasound with the analgesic and anti-edema effect of cooling therapy, parameters must be selected according to the clinical condition.
- Do not use the device if the treatment head, support arm, or connecting cable shows signs of damage.
- The device uses 230V~/50Hz power and has a maximum absorbed power of approximately 660 VA.

7. DOCUMENT USE NOTE

This English document is a reference user guide prepared for study, internal training, and technical support purposes. It is based on the currently available manufacturer catalogue and technical file content for UNIK 4, BFB4, IP1, and USF1. It does not replace the official instructions for use issued by the manufacturer, and any clinical use must follow the manufacturer's approved documentation and the judgment of qualified professionals.