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> MEDGEARS Physiogears Combo MDG_025: 4-in-1 Digital Physiotherapy Equipment User Manual

MEDGEARS MDG_025

MEDGEARS Physiogears Combo MDG_025

4-in-1 Digital Physiotherapy Equipment User Manual

1. INTRODUCTION

The MEDGEARS Physiogears Combo MDG_025 is a versatile 4-in-1 digital physiotherapy equipment designed for comprehensive pain relief and muscle recovery. This device integrates four distinct therapeutic modalities: Interferential Therapy (IFT), Muscle Stimulation (MS), Transcutaneous Electrical Nerve Stimulation (TENS), and Ultrasound (US). It offers a non-invasive approach to managing various conditions such as back pain, arthritis, sciatica, and muscle soreness.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before using this device. Failure to do so may result in injury or device malfunction.

- **Consult a Physician:** Always consult with a healthcare professional before starting any new physiotherapy treatment, especially if you have pre-existing medical conditions.
- **Contraindications:** Do not use this device if you have a pacemaker, are pregnant, have epilepsy, malignant tumors, open wounds, or skin lesions in the treatment area.
- **Placement:** Never place electrodes or the ultrasound applicator over the heart, carotid sinus nerves (front of the neck), or directly on the head.
- **Children and Impaired Individuals:** Keep the device out of reach of children. Do not allow individuals with reduced physical, sensory, or mental capabilities to operate the device without supervision.
- **Electrical Safety:** Use only the provided power adapter. Do not operate the device near water or in damp environments. Disconnect from power when not in use or during cleaning.
- **Skin Irritation:** Discontinue use if skin irritation, redness, or discomfort occurs.
- **Accessories:** Use only original or approved accessories and electrode pads.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact

customer support immediately.

- MEDGEARS Physiogears Combo MDG_025 Main Unit
- Electrode Pads (reusable, typically 6 pads)
- Electrode Wires (typically 3 pairs)
- Ultrasound Applicator
- Ultrasound Gel
- Power Cord
- Securing Straps (for electrodes)



Image 3.1: The MEDGEARS Physiogears Combo MDG_025 unit and its complete set of accessories.

4. PRODUCT OVERVIEW

The MDG_025 unit is a sophisticated device offering multiple electrotherapy and ultrasound functions. It features a digital display for program selection, intensity control, and treatment time. The device includes 45 preset treatment profiles to address various conditions.

Therapy Modes:

- **Interferential Therapy (IFT):** Uses medium-frequency electrical currents to stimulate nerves and muscles, providing deep pain relief and reducing swelling. The device supports 4PV, 4PV 45, 2P, and 4P modes.
- **Muscle Stimulation (MS):** Employs electrical impulses to contract muscles, aiding in muscle strengthening, re-education, and preventing atrophy. This includes Galvanic and Faradic modes.
- **Transcutaneous Electrical Nerve Stimulation (TENS):** Delivers low-voltage electrical current through electrodes to the skin, blocking pain signals and stimulating endorphin production for pain management. TENS frequency range: 2Hz, 10Hz, 50Hz, 100Hz, 200Hz, 250Hz.
- **Ultrasound (US):** Uses high-frequency sound waves to generate heat deep within tissues, promoting healing, reducing inflammation, and relieving muscle spasms.



Image 4.1: Close-up view of the MDG_025 control panel, showing digital displays and control knobs.



Image 4.2: The device highlighting its 45 preset treatment profiles for various conditions.

5. SETUP

- Placement:** Place the main unit on a stable, flat, and dry surface, away from direct sunlight or heat sources.
- Power Connection:** Connect the power cord to the device's power input and then plug it into a standard electrical outlet.
- Electrode/Applicator Connection:**
 - For IFT/MS/TENS:** Connect the electrode wires to the corresponding output channels on the device. Attach

the electrode pads to the ends of the wires.

- **For Ultrasound:** Connect the ultrasound applicator to the designated US output port on the device.

4. Preparation for Treatment:

- **For IFT/MS/TENS:** Ensure the skin in the treatment area is clean, dry, and free of oils or lotions. Apply the electrode pads firmly to the skin. Use securing straps if needed to keep pads in place.
- **For Ultrasound:** Apply a generous amount of ultrasound gel to the skin in the treatment area or directly onto the applicator head. This gel is essential for effective sound wave transmission.

6. OPERATING INSTRUCTIONS

Follow these steps to operate your Physiogears Combo MDG_025 device:

1. **Power On:** Press the power button to turn on the device. The digital display will illuminate.
2. **Select Therapy Mode:** Use the mode selection controls to choose between IFT, MS, TENS, or US. The selected mode will be indicated on the display.
3. **Choose Program (if applicable):** For IFT, MS, and TENS, you can select from the 45 preset programs. Use the 'Programs' button and adjustment knobs to navigate and select the desired program.
4. **Set Treatment Time:** Adjust the 'Timer Min' knob to set the desired treatment duration (5-30 minutes).
5. **Adjust Intensity:** Gradually increase the intensity for each channel using the 'Intensity' knobs. Start with a low setting and increase until a comfortable, yet effective, sensation is felt. For Ultrasound, adjust the 'Intensity' for the US output.
6. **Adjust Frequency/Sweep Pattern (IFT/TENS):** Depending on the selected program and therapy mode, you may need to adjust frequency (e.g., TENS frequency range: 2Hz, 10Hz, 50Hz, 100Hz, 200Hz, 250Hz) or sweep patterns.
7. **Start Treatment:** Press the 'Start/Stop' button to begin the treatment.
8. **During Treatment:** Monitor your comfort level. You can adjust the intensity at any time. For Ultrasound, continuously move the applicator head in small circular motions over the gel-covered skin. Do not hold the applicator stationary.
9. **End Treatment:** The device will automatically stop after the set time. You can also manually stop the treatment by pressing the 'Start/Stop' button.
10. **Power Off:** After treatment, reduce intensity to zero, then press the power button to turn off the device. Disconnect the power cord.

Specific Therapy Mode Guidance:

- **Ultrasound Application:**



Image 6.1: Proper application of the ultrasound applicator on the skin.

Ensure sufficient ultrasound gel is applied to the skin. Move the applicator continuously in small, overlapping circles over the treatment area. Avoid holding it still to prevent localized heat buildup.

- **Electrotherapy (IFT, MS, TENS) Electrode Placement:**



Image 6.2: Diagram showing the principle of Interferential Therapy (IFT).

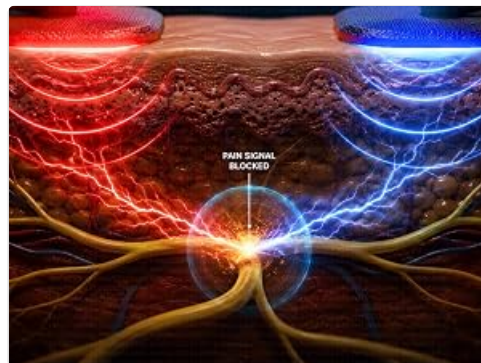


Image 6.3: Diagram illustrating how TENS therapy blocks pain signals.

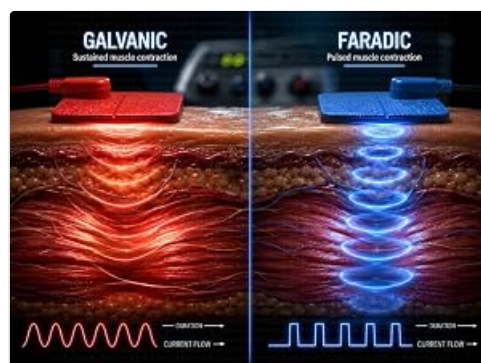


Image 6.4: Diagram comparing Galvanic (sustained contraction) and Faradic (pulsed contraction) muscle stimulation.

Place electrodes on clean, dry skin around the pain area. Ensure good contact. Refer to specific program guidelines or consult a therapist for optimal electrode placement for your condition.

7. MAINTENANCE

Cleaning:

- **Main Unit:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Electrode Pads:** After each use, gently wipe the adhesive side of the pads with a damp cloth to remove any skin residue. Allow them to air dry. Replace pads when they lose their adhesiveness or become damaged.
- **Ultrasound Applicator:** Wipe the applicator head clean with a soft cloth immediately after use to remove any remaining gel.
- **Cables and Wires:** Inspect cables and wires regularly for any signs of wear or damage. Replace if necessary.

Storage:

- Store the device and all accessories in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep electrode pads on their protective film when not in use to prolong their lifespan.

8. TROUBLESHOOTING

If you encounter issues with your device, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on	Power cord not properly connected; Power outlet malfunction; Device fault.	Ensure power cord is securely plugged into both the device and a working outlet. Try a different outlet. If problem persists, contact customer support.
No sensation or weak sensation during electrotherapy	Electrodes not making good contact; Intensity too low; Electrode pads worn out; Wires damaged.	Ensure pads are firmly applied to clean, dry skin. Gradually increase intensity. Replace old or damaged electrode pads. Check electrode wires for breaks.
Ultrasound applicator not working or no heat sensation	Insufficient ultrasound gel; Applicator not connected properly; Intensity too low.	Apply ample ultrasound gel. Ensure applicator is securely connected. Increase intensity gradually. Note that ultrasound heat is often felt internally, not always on the skin surface.
Skin irritation or redness	Allergy to electrode gel/adhesive; Overuse; Intensity too high; Poor skin hygiene.	Discontinue use immediately. Clean skin thoroughly. Reduce treatment time or intensity. Consult a physician if irritation persists. Try hypoallergenic pads if available.

9. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model Number	MDG_025
Product Dimensions (L x W x H)	25 x 33.5 x 8.5 cm
Item Weight	4 kg
Power Source	Corded Electric
Material	Metal
Therapy Modes	IFT (4PV, 4PV 45, 2P, 4P), MS (Galvanic, Faradic, Cont, Pulse 1.1, 1.4, 1.7, 2.0), TENS, Ultrasound
Number of Electrodes	6
Number of Channels	3
Preset Profiles	45
Treatment Time	5-30 Minutes (Adjustable)
TENS Frequency Range	2Hz, 10Hz, 50Hz, 100Hz, 200Hz, 250Hz
Special Features	Adjustable Beat Frequency and Intensity, Pulsed and Continuous Modes
Water Resistance Level	Not Water Resistant
Country of Origin	India

10. WARRANTY AND SUPPORT

Warranty Information:

The MEDGEARS Physiogears Combo MDG_025 comes with a **1-year warranty** from the original date of purchase. This warranty is non-transferable and applies only to the main device. Accessories, such as electrode pads, wires, and gel, are not covered under this warranty.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact MEDGEARS customer care:

- **Manufacturer Contact:** MEDGEARS Manufacturer, C-32 Patparganj Industrial Area, Delhi, India
- **Customer Care Number:** 000 925 0237216
- **Packer Contact:** MEDGEARS, Plot No 361 Patparganj Industrial Area, Delhi, India
- **Packer Customer Care Number:** 9818863299

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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