

Perma *Microneedling RF*

USER MANUAL

English version: 1.0



IMPORTANT SAFETY RULES

Perma Microneedling RF User Manual.

Please read, understand, and follow all instructions carefully before using this product. Keep for future reference.

Input Voltage: AC 220V/50Hz or AC 110V/60Hz

Output Power: 55VA

LED: Red 650nm/5mW

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Section 1: Introduction

1.1 Before You Start	4
1.2 Overview	4
1.3 Intended Use	4
1.4 Safety Summary	4
1.5 Conventions Used in the Manual	4

Section 2: Safety Information

2.1 Restricted Use for Trained Clinicians	5
2.2 General Safety Guidelines	5
2.3 Specific Precautions	5
2.4 Contraindications	5
2.5 Forbidden Group	5
2.6 Safety Precautions for Treatment Procedures	6
2.7 Operational Safety	6
2.8 Ensuring Compliance and Safety	6

Section 3: Safety Guidelines and Operating Precautions

3.1 Safety Guidelines	7
3.2 Fire Safety Guidelines	7
3.3 Operating Precautions	8

Section 4: System Setup and Installation

4.1 Unpacking and Inspection	9
4.2 Assembly Instructions	10

Section 5: Operating Instructions

5.1 SRF Treatment – SRF handpiece	12
5.2 MRF Treatment – MRF handpiece	16

Section 6: Clinical Treatment Parameters

6.1 Overview	20
6.2 Consumable Parts	20
6.3 Pre-Treatment Checks	20
6.4 Pre-Treatment Preparation	20
6.5 Important Note	21
6.6 Treatment Course Recommendations	21

6.7 Functionality and Benefits	21
6.8 Treatment Range and Applications	21
6.9 Treatment Protocols	22
6.10 Safety Cautions for SRF and MRF Treatments	22
6.11 Post-Treatment Care	22
6.12 MRF Treatment Handpiece Settings	23
6.13 SRF Treatment Handpiece Settings	24
6.14 Operational Guidance	24
6.15 Clinician Responsibility	24

Section 7: Maintenance and Equipment Care

7.1 Environment Restrictions	25
7.2 Handling Failures	25
7.3 Exclusion of Liability	25
7.4 Regular Maintenance Recommendations	25
7.5 Touch Screen Calibration	26

Section 8: Technical Support and Warranty

8.1 Customer Support	27
8.2 Warranty Coverage	28

Section 9: Legal and Regulatory Notices

9.1 Disclaimer	29
9.2 Copyright Notice	29
9.3 Regulatory Compliance	29

Section 10: Technical Specifications

10.1 Power Specifications	30
10.2 Power Supply	30

Section 11: Safety and Environmental Conditions

11.1 Hazardous Substances or Elements Contained in the Product	31
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Section 12: System Disposal

12.1 System Disposal	32
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Section 1: Introduction

1.1 Before You Start

The Perma Microneedling RF System is designed for professional use by qualified medical practitioners and aestheticians trained in microneedling and RF (radio frequency) techniques only. Before operating the system, users must be thoroughly familiar with this manual to ensure the highest standards of safety and efficacy in treatments. The user should also ensure that they have received appropriate training.

1.2 Overview

The Perma Microneedling RF System combines advanced microneedling technology with radio frequency energy to enhance skin rejuvenation, tighten skin, and reduce the appearance of scars. This technology stimulates collagen production and promotes elastin in the skin, making it ideal for professional cosmetic treatments aimed at improving skin texture and firmness.

1.3 Intended Use

This product is strictly for cosmetic purposes and is not intended for medical applications. It is designed for operation by professionals trained and certified in cosmetic microneedling and radio frequency treatments. Use of this device outside of its intended use, or deviation from operational guidelines, can lead to suboptimal results or potential risks.

1.4 Safety Summary

Ensure all operating personnel read and understand this manual thoroughly before use. Adhere closely to all safety guidelines and operational precautions outlined within this document. Additionally, always stay updated with local regulations and standards to guarantee compliance and ethical use of the Perma Microneedling RF System in your practice.

1.5 Conventions Used in the Manual

This manual uses specific conventions to highlight important information:



WARNING!: Indicates critical safety information.



ATTENTION!: Highlights important operational guidelines.



NOTE!: Provides additional information for optimal use.

Section 2: Safety Information



2.1 Restricted Use for Trained Clinicians

- **User Restrictions:** The Perma Microneedling RF System is exclusively designed for use by qualified medical practitioners and aestheticians who are specifically trained in microneedling and radio frequency (RF) techniques. This restriction ensures that the system is operated safely and effectively, adhering to the highest standards of care. Unauthorised or untrained use of this equipment is strictly prohibited to prevent misuse and ensure client safety.



2.2 General Safety Guidelines

- **Device Operation:** Operate the Perma Microneedling RF System strictly as instructed in this manual to ensure safe and effective use.
- **Environment:** Avoid using the device near water or flammable materials to prevent accidents.



2.3 Specific Precautions

- **Electronic Implants:** Do not use the device on individuals with pacemakers or other implanted electronic devices due to the risk of interference with the device function.
- **Metal Objects:** Clients must remove all metal jewellery before treatment to prevent burns or other injuries caused by interactions with RF energy.



2.4 Contraindications

- **Vulnerable Clients:** Avoid using the system on pregnant women, individuals with skin cancer, or those undergoing treatment for severe medical conditions without prior approval from a healthcare professional.



2.5 Forbidden Group

- **Medical Conditions:** The device should not be used on individuals / Clients with any of the following conditions:
 - Heart disease, high blood pressure, or configured cardiac pacemakers.
 - Acute inflammation, asthma, deep vein thrombosis, thyroncus, or cancer.
 - Hemorrhagic diseases, trauma, or active bleeding.
 - Presence of medical plastic parts, artificial fillings, or metal inside the body.
 - Skin inflammation, eczema on treatment area, or abnormal immune system responses.
 - Individuals who are numb or insensitive to heat.

Section 2: Safety Information



2.6 Safety Precautions for Treatment Procedures

- **Attachment of Treatment heads:** Ensure that MRF micro-needles and SRF treatment heads are securely attached to their respective handpieces. Check each connection before starting treatment.
- **Use of Cold Gel:** Mandatory use of a liberal amount of cold gel with the dot matrix SRF electrode head to facilitate safe RF transmission and cooling of the treated area.
- **Eye Safety:** Turn off red LED therapeutics when treating around the eyes to prevent potential light-induced eye damage.
- **Cleansing of Treatment heads:** Immediately cleanse the treatment heads if gels, creams, or other substances enter and cause overheating, as this can lead to smoke production and potentially damage the device.



2.7 Operational Safety

- **Handling the Device:** Always handle the device with care during operation. Use the Foot Switch judiciously to control the treatment precisely, ensuring that each application of RF energy or micro-needling is conducted safely.
- **Post-Treatment Care:** After completing treatments, especially those involving high heat, (at clinicians discretion) apply cooling agents like ice packs or cooling gels to alleviate discomfort and reduce swelling.



2.8 Ensuring Compliance and Safety

These comprehensive safety guidelines are critical for minimising risks and ensuring the efficacy of treatments with the Perma Microneedling RF System. It is imperative that all operating personnel are thoroughly trained to adhere to these precautions and respond appropriately to maintain the highest standards of client care and safety.

Section 3: Safety Guidelines and Operating Precautions

3.1 Safety Guidelines

- **General Safety:** Always operate the Perma Microneedling RF System according to the instructions in this manual to ensure safe and effective use. The device should be used in a professional setting by qualified personnel trained in microneedling and RF techniques.
- **Electromagnetic Interference:** Keep the device away from other electronic medical equipment to avoid electromagnetic interference that could lead to operational failures.
- **Environmental Safety:** Do not use the device in hot, humid, dusty, or smoky environments as these conditions can damage the device and affect its functionality.
- **Internal Components:** Do not attempt to touch or tamper with the internal parts of the System. These components are sensitive and should only be handled by professionals.
- **Handling and Storage:** Handle all components with care. Handpieces should be handled with care. Avoid dropping and contact with hard surfaces to prevent damage. Always store and transport them in designated cases or stands provided with the system. Store the device and accessories in a clean, dry environment when not in use to prevent damage and maintain operational integrity.
- **Authorised Service:** Any servicing or repairs should be performed exclusively by personnel authorised by the company. Unauthorised servicing may lead to system damage or void warranties.



3.2 Fire Safety Guidelines

The operation of the Perma Microneedling RF System requires stringent safety measures to prevent fire hazards, particularly due to the interaction of RF energy with flammable materials.

Following these guidelines will help maintain a safe treatment environment, preventing incidents of fire and ensuring the safety of both clients and clinicians when using the RF system.

- **Restriction on Flammable Materials:** Avoid the use of the system near any materials that are flammable or explosive. RF energy can cause these materials to heat and potentially ignite.
- **Alcohol and Disinfectants:** If using alcohol-based disinfectants, they must be completely dry before you activate the RF system. This prevents alcohol fumes from igniting under the influence of RF energy.
- **Safe Environment:** Conduct treatments in an environment free from any explosive or highly flammable materials to minimise the risk of accidental ignition.

Section 3: Safety Guidelines and Operating Precautions



3.3 Operating Precautions

- **Pre-Treatment:** Remove any metal jewellery or other metallic items from the client before treatment to prevent burns or other adverse effects caused by RF interactions. Ensure that the treatment area is clean and dry before beginning a session.
- **Usage of Consumables:** Adhere to protocols regarding consumables, such as MRF tips and SRF heads, to prevent cross-contamination and ensure optimal results. MRF tips are **single-use**, and SRF heads must be cleaned after each use and replaced as necessary, maximum use of 15 times.
- **Monitoring During Treatment:** Monitor the client's response to the treatment continuously. Adjust the treatment settings as needed based on the client's feedback and clinical outcomes.
- **Post-Treatment Care:** Follow appropriate post-treatment protocols to ensure client comfort and maximise treatment efficacy. This includes applying cooling agents at clinicians discretion and advising clients on aftercare, such as avoiding direct sunlight and applying spf where necessary.
- **Emergency Procedures:** Have protocols in place for handling any adverse reactions or device malfunctions. In case of a device failure, turn off the system immediately and refer to the troubleshooting section of this manual. If a serious adverse reaction occurs, discontinue the treatment and seek appropriate medical assistance.

These safety guidelines and operating precautions are designed to ensure the safety of both the operator and the client while maximising the therapeutic benefits of the Perma Microneedling RF System. Adherence to these guidelines is crucial for maintaining the highest standards of care and achieving the best possible outcomes.

Section 4: System Setup and Installation

4.1 Unpacking and Inspection

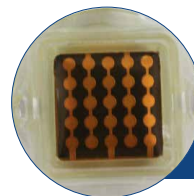
Upon receiving your Perma Microneedling RF System, verify all items listed in the contents list are included and inspect each for any damage.

Contents List:

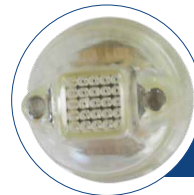
- Host unit (1 set)
- SRF handpiece (1 pc)
- MRF handpiece (1 pc)
- SRF treatment head (2 pcs)
- MRF micro-needles treatment head (25 needles) (2 pcs)
- MRF micro-needles treatment head (49 needles) (2 pcs)
- MRF micro-needles treatment head (81 needles) (2 pcs)
- Foot Switch (1 pc)
- Power supply line (1 pc)
- User manual (1 copy)
- Hex socket screw (1 pc)
- Hex socket wrench (1 pc)
- Accessories frame (1 pc)



SRF Handpiece



SRF treatment head



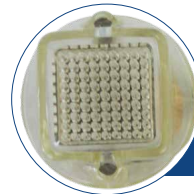
RF Micro-needles
treatment head
25 - needles



MRF Handpiece



RF Micro-needles
treatment head
49 - needles



RF Micro-needles
treatment head
81 - needles



RF Micro-needles
treatment head

Sealed Authentic
Treatment head Box



Do not use if the seal
has been broken or
tampered with.



RF Micro-needles
treatment head

Sealed Foil Treatment head
Inner Packaging



Do not use if the Foil
has been broken or
tampered with.

Section 4: System Setup and Installation

4.2 Assembly Instructions

To properly set up your Perma Microneedling RF System, please follow these detailed steps. Ensure that you handle all components with care to avoid any damage during assembly.



Step 1: Accessory Setup

- Attach the accessory holders to the frame using the screws provided. This frame will support various components and should be securely attached to prevent any movement during operation.

Step 2: Connecting Handpieces and Foot Switch

- Insert the SRF Handpiece into the jack labelled "2" on the main unit. Ensure it is fully inserted and secured.
- Connect the MRF Handpiece into the jack labelled "3". Similar to the previous step, make sure it is completely and securely inserted.
- Place the Foot Switch on the ground and insert its connector into the jack labelled "4". This allows the Foot Switch to be readily accessible during treatments.

Step 3: Power Supply Connection

- Connect the mains cable to the power inlet marked "6" on the back of the main unit.
- Ensure that the connection is secure and that the power line is not subject to tension or pinching that could cause wear or disconnection.

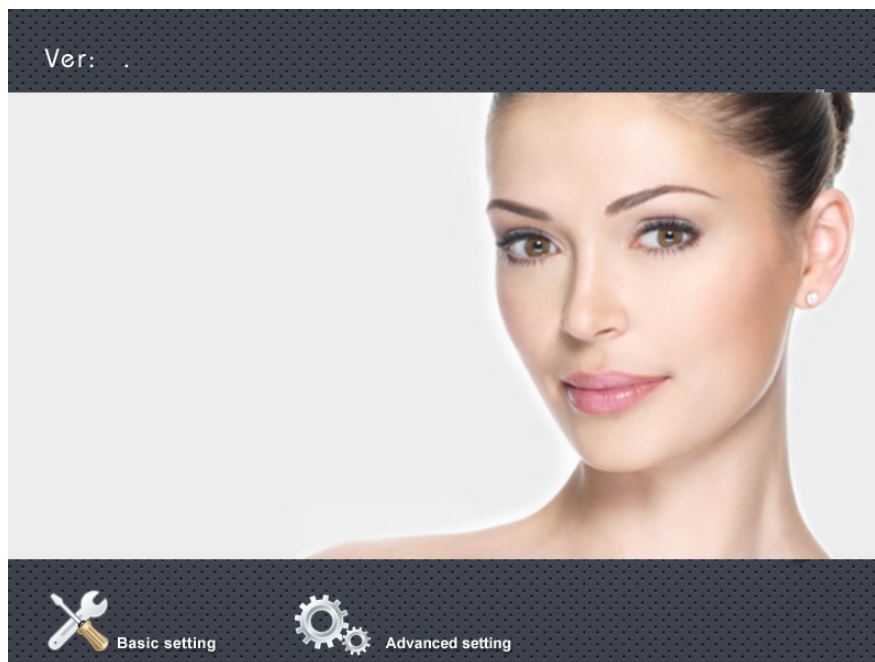
Section 4: System Setup and Installation

Step 4: Powering On and Initial Settings

- Once all physical connections have been made, turn on the Power Switch labelled "5".
- Ensure that the Emergency Stop button is not engaged by pressing it and then turning it clockwise to release it, the button will pop out confirming that it is in the ready position for safe use.
- Turn the 'Key Switch' clockwise to turn on the system.
- Upon startup, the system will prompt you to enter a default password ("000000"). Input this password to access the main interface.
- The main interface (Fig 1) will appear on the touchscreen. From here, you can select:



- **Basic Setting** – select the language.
- **Advanced Setting** – Note that "Advanced Setting" is reserved for manufacturer use only and should not be altered.



'Fig 1: Main Interface Image'

- Click on  to navigate back/return to the main interface screen

Step 5: Final Checks

- Before starting any treatment, perform a final check to ensure that all components are connected correctly and that the system functions as expected.
- Navigate through the touchscreen interface to familiarise yourself with the various settings and operational controls.

Section 5: SRF Operating Instructions

5.1 SRF Treatment – SRF Handpiece:

This section provides step-by-step instructions on how to perform SRF treatments using the Perma Microneedling RF System with the SRF handpiece and the SRF treatment head.

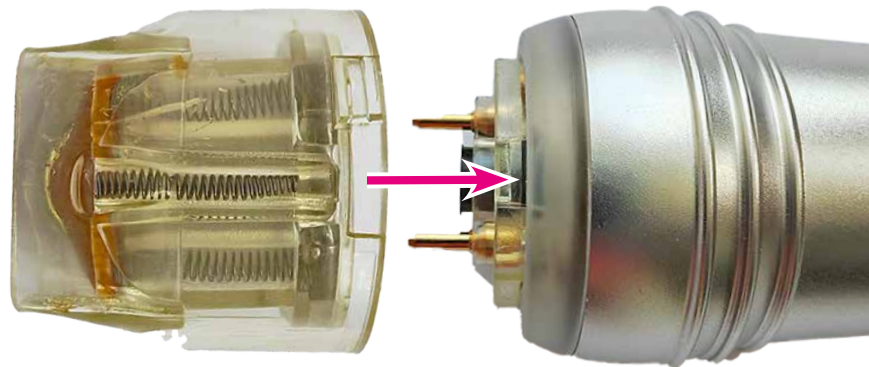
Equipment Setup

Step 1. Handpiece and Treatment head Setup:

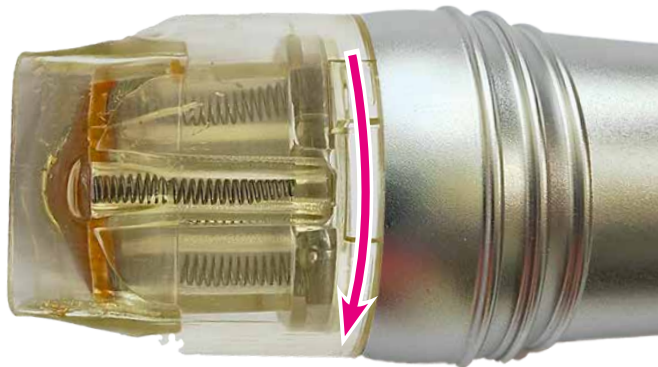
- Ensure that the treatment head is securely attached before starting the procedure.
- Apply a cord sleeve over the MRF Handpiece wire for hygiene protection before use.

Fitting the Treatment Head to the SRF Handpiece:

- **Step1:** Align the connection mouldings on the Treatment Head to the SRF Handpiece



- **Step2:** Push and twist to securely fix into place.



Section 5: SRF Operating Instructions

Client Preparation

Step 2. Skin Preparation:

- **Deep Cleaning:** Thoroughly clean the treatment area to remove any impurities or makeup.
- **Numbing Cream Application:** Apply a topical anaesthetic to the treatment area to reduce discomfort during the procedure. Allow sufficient time for the anaesthetic to take effect. To be used at the discretion of the clinician. Always refer to protocols.
- **Cold Gel Application:** Apply cold gels on the skin to prepare it for the SRF treatment. This helps to protect the skin and improve the conductivity of the RF energy.

Treatment Settings Adjustment

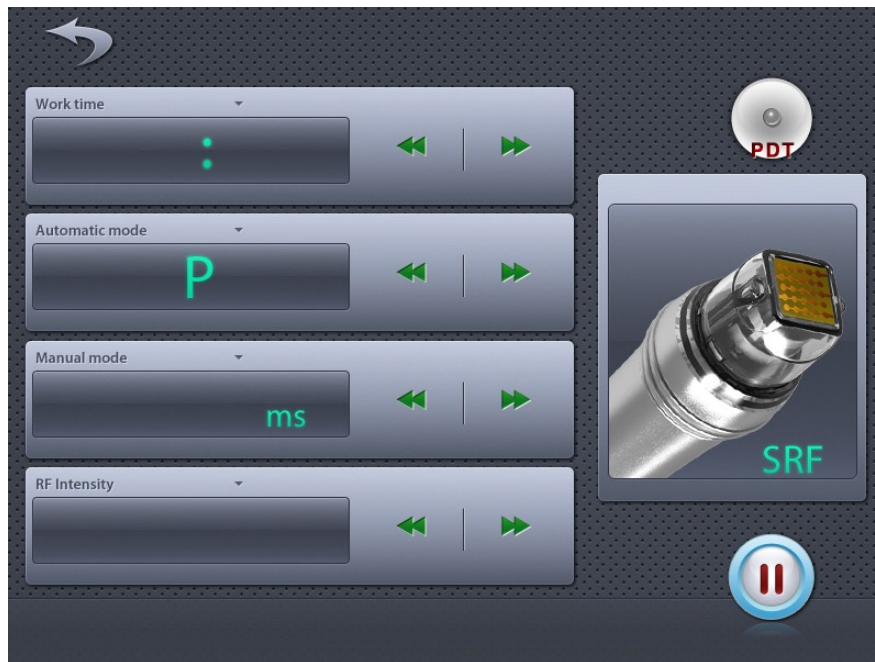
Step 3. Adjusting the Device Settings:

- **Access the Treatment Interface:** On the device's touchscreen, click on "SRF" (Fig 2) to enter the interface for SRF treatment settings (Fig 3).



'Fig 2: Treatment Interface Image'

Section 5: SRF Operating Instructions



'Fig 3: SRF Treatment Interface'

- **Set Working Time:** Set the desired duration of the treatment. The default setting is 30 minutes, but it can be adjusted from 1 to 120 minutes using the "<<" and ">>" controls.
- **Work Mode Selection:** Select the appropriate work mode. The default mode is P4. Adjust the mode by clicking on "<<" and ">>" to toggle through the automatic modes.

Automatic Modes:

- P1: 3000ms (long)
- P2: 2600ms
- P3: 2200ms
- P4: 1800ms
- P5: 1400ms
- P6: 1000ms (short)

- **RF Intensity Setting:** The default RF intensity is set at 1. Adjust the intensity as needed from 1 (weak) to 10 (strong) to suit the client's skin type and sensitivity.
- **PDT Light Therapy:** If applicable, use the "PDT" button to turn on or off light therapeutics, which can enhance the treatment effect or provide additional skin benefits.



– **IMPORTANT NOTE: PDT MUST NOT BE USED AROUND THE EYES**

Section 5: SRF Operating Instructions

Conducting the Treatment

Understanding the display symbols:

The machine is equipped with a start and stop button that visually indicates its operational status:



A play symbol displays when the machine is running,



and a pause symbol appears when the machine is paused, allowing you to easily understand its current state at a glance.

Step 4. Operating the Treatment:

- **Starting the Procedure:** Press the pause button to unpause and begin the treatment. Hold the SRF handpiece against the skin.
- **Using the Foot Switch:** Step on the Foot Switch to activate the output from the SRF treatment head, maintain pressure on the Foot Switch until the treatment cycle has finished. Release the brake and move the handpiece to a new part of the treatment area. Repeat this step, ensuring that the device engages only once per area to avoid over treatment and skin irritation.



Please note: If the Foot Switch is released before the given duration the treatment cycle will not have been completed.

- **Continuous Monitoring:** Throughout the treatment, continuously monitor the skin's response to adjust settings and handpiece placement as needed.

Post-Treatment Care

Step 5. Cooling and Soothing:

- Once the treatment is complete, apply ice or a cooling mask can be applied to the treated area to help reduce any swelling and relieve discomfort.
- The application of post care products are at the discretion of the clinician.

Step 6. System Reset:

- To conclude the treatment session and prepare the device for next use, click on the button to return to the main interface (Fig 1).



Ensure a Safe and Effective Treatment

This process should be followed closely to ensure a safe, effective, and comfortable experience for the client. Always ensure that each step, especially those involving the adjustment of settings and the application of the RF energy, is performed with precision and care.

Section 5: MRF Operating Instructions

5.2 MRF Treatment – MRF Handpiece:

This section details the steps for administering Microneedling Radio frequency (MRF) Treatment using the Perma Microneedling RF System with the MRF Handpiece. This procedure involves precise control of needle depth and RF intensity for effective and safe microneedling.

These detailed operating instructions are designed only for trained clinicians, guiding them through the specific steps to conduct MRF treatments with precision, ensuring optimal results while maintaining high standards of safety and client comfort.



Safety Note

Caution During Treatment: When treating the face and body with long needle lengths and high RF intensities, ensure to treat each area only once per session to avoid skin trauma.

Equipment Setup

Step 1. Handpiece and Treatment Head Setup:

- Select the appropriate MRF micro-needle treatment head for the treatment area.
- Insert the chosen treatment head into the MRF Handpiece. Ensure it is fully and securely attached.
- Apply a cord sleeve over the MRF Handpiece wire for hygiene protection before use.

Client Preparation

Step 2. Skin Preparation:

- **Deep Cleansing:** Thoroughly cleanse the treatment area to remove all makeup, oils, and impurities.
- **Numbing Cream Application:** Apply a topical anaesthetic to the treatment area to reduce discomfort during the procedure. Allow sufficient time for the anaesthetic to take effect. To be used at the discretion of the clinician and client.
- **Follow Protocol**

Section 5: MRF Operating Instructions

Treatment Settings Adjustment

Step 3. Adjusting the Device Settings:

- **Access the MRF Interface:** On the device's touchscreen, navigate and click on "MRF" as shown in (Fig2) to access the MRF treatment settings (Fig 4).



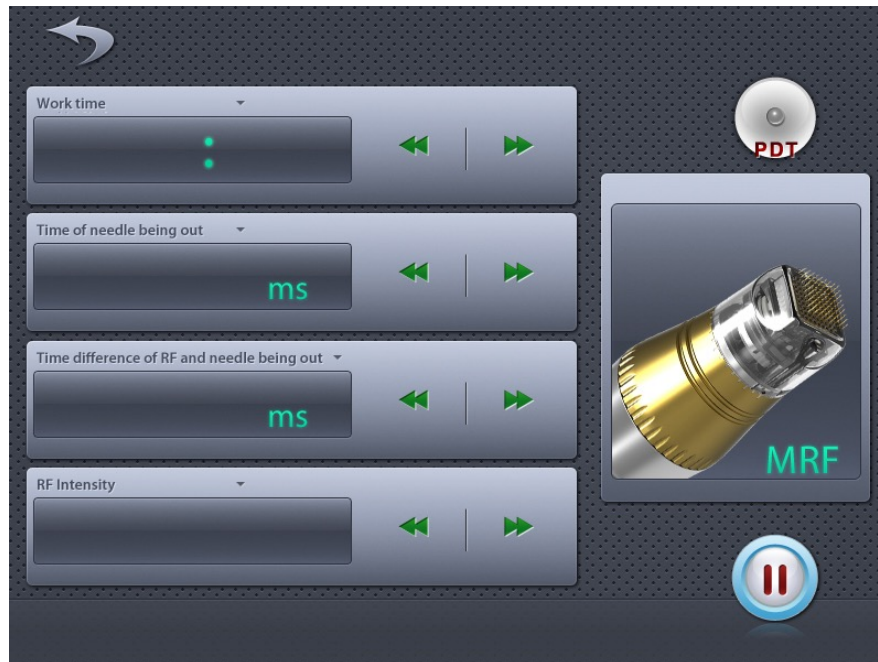
'Fig 2: Treatment Interface Image'

- **Adjust Needle Length:** Depending on the treatment area, adjust the needle length by twisting the yellow ring on the handpiece:
 - Eyes: 0.25 mm
 - Face: 0.5 to 1.5 mm
 - Body: 1.5 to 3.0 mm
- **Set Working Time:** The default setting is 30 minutes. Adjust the time from 1 to 120 minutes using the "<<" and ">>" controls.
- **Needle Timing Adjustment:** Set the 'Time of needles being out' ('Time of needles being out' = the time of needle being out of the treatment head and into the skin), starting from the default of 300 milliseconds (ms), adjustable between 250ms to 600ms based on treatment depth and sensitivity.
 - Eyes: 250ms
 - Face: 300ms
 - Body: 450ms



Section 5: MRF Operating Instructions

- **Time Difference of MRF and Needles Being Out Adjustment:** Set the time difference between MRF activation and needle deployment. The system default setting is 2ms. Use the '<<' and '>>' controls to adjust the range from 1ms (faster response) to 10ms (slower response). A setting of 0ms means that the MRF energy and needles are activated simultaneously.



'Fig 4: MRF Treatment Interface'

Understanding and Definition

'The time difference of RF and the needle being out', indicates that the needles will go out first and will be out for 600 milliseconds, after 10 milliseconds of them being out the RF is applied. This allows for the insertion of the needle into the tissue, therefore the longer the needle depth the longer it takes to go into the tissue. The shorter the needle depth the shorter time it takes for the needle to go into the tissue.



- **RF Intensity Adjustment:** Start with the default RF intensity of 1 being the weakest and adjust as necessary up to a maximum of 10 for the stronger effects. Use the controls '<<' and '>>' to make these adjustments.
- **Light Therapy Settings:** Use the 'PDT' button to toggle the light therapeutics on or off, which can aid in treatment efficacy and client comfort.



– **IMPORTANT NOTE: PDT MUST NOT BE USED AROUND THE EYES**
(PDT = Photo Dynamic Therapy)

Section 5: MRF Operating Instructions

Conducting the Treatment

Understanding the display symbols:

The machine is equipped with a start and stop button that visually indicate its operational status:



A play symbol displays when the machine is running,



and a pause symbol appears when the machine is paused, allowing you to easily understand its current state at a glance.

Step 4. Operating the Treatment:

- **Starting the Procedure:** Initiate the treatment by pressing the start button. Hold the handpiece securely against the skin.
- **Foot Switch Utilisation:** Press the Foot Switch to deploy the needles once. You will need to keep the Foot Switch pressed to fulfill a full cycle, the machine will make a 'click' sound to indicate the the cycle has finished. Release your foot from the Foot Switch, then move the handpiece to a new treatment area and repeat the process. Ensure that the micro-needles are only activated once per skin area to prevent over-treatment.



Please note: If the Foot Switch is released before the given duration the treatment cycle will not have been completed.

- **Continuous Monitoring:** Keep a close watch on the skin's response and adjust the needle depth or RF intensity as needed to customise the treatment based on real-time observations.

Post-Treatment Care

Step 5. Cooling and Soothing:

- Post treatment cooling/products may be applied at the discretion of the clinician. We are looking for an inflammatory response as inflammation plays a key role in stimulating collagen production and wound healing. Therefore, excessive cooling may slow down the body's repair process. The clinician will make a decision on whether to cool post treatment based on this knowledge and client feedback.

Step 6. System Reset:

- To conclude the treatment session and prepare the system for the next use, click on the  button to return to the main interface (Fig 1).

Ensure a Safe and Effective Treatment

This process should be followed closely to ensure a safe, effective, and comfortable experience for the client. Always ensure that each step, especially those involving the adjustment of settings and the application of the RF energy, is performed with precision and care.

Section 6: Clinical Treatment Parameters



6.1 Overview

Please note: The following parameters and guidelines serve as references only, and results may vary from one individual to another.



6.2 Consumable Parts

- **MRF Treatment Head:** This is a consumable part designed for single-use per customer.
- **SRF Treatment Head:** Can be used for up to 15 treatments but must be cleaned after every treatment using a medical cleaning agent. Do not use alcohol or corrosive substances for cleaning.



6.3 Pre-Treatment Checks

- Before use, check the main unit, accessories, power supply line and any parts of the handpieces for any damage, if any are found to be broken or damaged these must be replaced before usage of the Perma Microneedling RF System.
- Remove any hearing aids, electronic wristwatches, magnetic cards, mobile phones, and other similar devices before beginning treatment and place at least 1 meter away from the client.

6.4 Pre-Treatment Preparation

Proper preparation of the treatment area is crucial for the success of any procedure using the Perma Microneedling RF System. This section outlines the essential steps to be taken before initiating treatment to ensure optimal results and client comfort.

- **Deep Cleansing:** Start by thoroughly cleansing the area to be treated to remove any impurities or makeup. This helps in minimizing the risk of infections and ensures better adherence of the machine to the skin.
- **Setting Parameters:** Adjust the device settings to suit the specific treatment plan. Consider the client's skin type, the area being treated, and the desired outcome when setting these parameters. This ensures that the treatment is both effective and tailored to individual needs.

By following these pre-treatment steps, clinicians can improve the safety and efficacy of the microneedling process, leading to better client satisfaction and treatment outcomes.

Section 6: Clinical Treatment Parameters



6.5 Important Note

- Only operate once in the same location during a single session to prevent over treatment. Repeat treatment operations should not occur on the same day in the same area.



6.6 Treatment Course Recommendations

- **SRF:** Recommended one treatment per week for 4-6 weeks.
- **MRF:** Recommended one treatment per month for 3-6 months.

6.7 Functionality and Benefits

The Perma Microneedling RF System is engineered to offer a comprehensive solution for skin rejuvenation by treating a wide range of skin issues simultaneously. This system combines advanced microneedling with radiofrequency (RF) technology to enhance skin texture and appearance effectively.

- **Collagen and Elastin Production:** The system stimulates the production of collagen and elastin, enhancing skin elasticity, reducing the appearance of wrinkles.
- **Skin Tightening and Smoothing:** Utilising RF technology, it tightens pores and smooths the skin, delivering precise treatments that target the desired areas with minimal downtime.

6.8 Treatment Range and Applications

The Perma Microneedling RF System is versatile enough to address various skin conditions across different body areas, making it an ideal choice for aesthetic practices.

- **Wrinkles and Fine Lines:** Effectively targets and improves wrinkles and fine lines around the eyes (excluding eyelids), face, neck, and body.
- **Skin Textural Improvements:** Greatly improves the appearance of stretch marks, blain holes, and acne scarring.
- **Specific Applications:**
 - **MRF Technology:** Particularly effective for stubborn wrinkles, stretch marks, and acne marks, offering targeted and deep treatment.
 - **SRF Technology:** Ideal for improving finer wrinkles and maintaining the effects for a considerable length of time.

This integrated approach ensures that the Perma Microneedling RF System not only addresses specific aesthetic concerns but also enhances overall skin health and appearance, making it an essential tool for advanced skincare professionals.

Section 6: Clinical Treatment Parameters

6.9 Treatment Protocols

MRF Treatment

- **Needle Length Adjustment:**
 - Eyes: 0.25mm to 0.35mm
 - Face: 0.5mm to 1.5mm
 - Body: 1.5mm to 3.0mm
- **Treatment Time:** Default is 30 minutes; adjustable as needed.
- **RF and Needle Timing:** Adjust time of needles being out and the difference in timing between RF and needle activation from 1-10ms, with 0 indicating simultaneous operation, see page 18 for further information and understanding.

SRF Treatment

- **Work Time:** Adjustable from 1 to 120 minutes.
- **Mode Settings:** Includes multiple automatic modes from M1 (3000ms) to M6 (1000ms) and a manual mode adjustable from 1000 to 3000ms.



6.10 Safety Cautions for SRF and MRF Treatments

- Ensure that the MRF micro-needle treatment head and SRF treatment head are fully inserted into the handpiece before use.
- Clients should remove all metal jewellery during treatment to avoid burns.
- It is essential to apply cold gel first when using the dot matrix SRF electrode head to ensure safe and effective treatment
- It is critical to turn off the red LED therapeutics light when treating areas around the eyes to ensure safety and prevent potential harm..
- It is imperative to avoid performing treatments on the eyelids to ensure client safety and prevent potential injury.
- Immediately clean the SRF treatment head if gels or creams lead to overheating or smoke to prevent damage and ensure safety.

6.11 Post-Treatment Care

- After treatment, the skin may become dry. It is recommended to apply a moisturising mask at least three times a week and maintain regular use of sunscreen. Avoid using hot water to wash the face to prevent irritation.

Section 6: Clinical Treatment Parameters



6.12 MRF Treatment Handpiece Settings

This section outlines the specific settings for the Microneedle RF (MRF) treatment handpiece, providing a detailed framework for needle length, operation times, and RF energy adjustments. These settings are intended as guidelines to assist trained clinicians in enhancing treatment precision and safety across various skin types and conditions. It is crucial that each clinician assesses their clients individually and adjusts these settings based on specific treatment needs and client responses.

Refer to the table below for detailed parameters and ensure to customize these settings to accommodate the unique requirements of each treatment session.

Skin Type/Area	Length of Needle (mm)	Working Time	Time of Needles Being Out (ms)	Time Difference of RF and Needles Being Out (ms)	Intensity
FACE Thin or Delicate Skin	Eye: 0.25 Face: 0.5 - 1.5	Default: 30 mins (adjustable as needed)	Eye: 250 Face: 300	5 (1-10ms adjustable, 0 for simultaneous output)	From 1 upwards
FACE Normal Skin Thick Skin	Eye: 0.25 Face: 0.5 - 1.5	Default: 30 mins (adjustable as needed)	Eye: 270 Face: 370	5 (1-10ms adjustable, 0 for simultaneous output)	From 1 upwards
BODY Stretch Marks (Body)	1.5 - 3.0	Default: 30 mins (adjustable as needed)	500	5 (1-10ms adjustable, 0 for simultaneous treatment)	From 1 upwards

Key Definitions:

- **Length of Needle:** Indicates the appropriate needle depth for each treatment area, essential for targeting various skin layers effectively:
- **Eyes:** 0.25mm
- **Face:** 0.5mm - 1.5mm
- **Body:** 1.5mm - 3.0mm
- **Working Time:** Can be adjusted based on the treatment requirement but defaults to 30 minutes.
- **Time of Needles Being Out:** Represents the duration for which the needles are actively engaged with the skin.
- **Time Difference of RF and Needles Being Out:** Adjustable from 1 to 10ms, with 0ms indicating that RF energy and needles are activated simultaneously, facilitating precise control over the treatment dynamics, see page 18 for further information and understanding.

Section 6: Clinical Treatment Parameters



6.13 SRF Treatment Handpiece Settings

This section details the operational settings for the Superficial Radio Frequency (SRF) treatment handpiece, providing guidelines to optimize the use of SRF treatments. These settings are designed as a baseline from which trained clinicians can adjust based on client-specific needs and treatment response.

SRF Treatment Parameters

- **Work Time:** Adjustable from 1 to 120 minutes to accommodate various treatment lengths and client requirements.
- **Automatic Mode:** Features multiple time settings to cater to different treatment intensities:
 - P1: 3000ms (long)
 - P2: 2600ms
 - P3: 2200ms
 - P4: 1800ms
 - P5: 1400ms
 - P6: 1000ms (short)
- **Manual Mode:** Allows for precise control with adjustments from 1000 to 3000ms, offering flexibility to tailor the treatment as needed.

6.14 Operational Guidance

- **Single Application Recommendation:** It is advised to treat any specific area only once during a session to prevent skin irritation and ensure safety. Do not repeat treatment on the same area within the same day.
- **Post-Treatment Care:** Following the treatment, the skin may exhibit dryness. To mitigate this, apply a moisturising mask at least three times a week. Maintain skin hydration and protection from the sun by applying sunscreen regularly. Additionally, avoid using hot water on the face to prevent further drying of the skin.



6.15 Clinician Responsibility

It is imperative that clinicians carry out a full consultation and assess each client's skin condition and treatment history before adjusting the SRF handpiece settings. The provided parameters serve as a general framework, but they should be customized to achieve the best outcomes while ensuring client comfort and safety.



By following these clinical guidelines and treatment parameters, practitioners can ensure safe, effective, and optimized outcomes for clients using the MRF and SRF treatments provided by the Perma Microneedling RF System.

Section 7: Maintenance and Equipment Care

7.1 Environment Restrictions

Operating Environment: To maintain optimal functionality and safety, avoid using the equipment in environments that are:

- **Hot and Humid:** Excessive heat and moisture can impair the function and safety of the device.
- **Dusty, Smoky or Steamy Environments:** Dusty, Smoky or Steamy Environments can cause damage, this needs to be minimised.

7.2 Handling Failures

Immediate Action for Failures: If the device experiences a failure, immediately power down and unplug the unit. Do not attempt repairs yourself; instead, contact the distributor or manufacturer for professional maintenance.

7.3 Exclusion of Liability

Limitation of Responsibility: Optilight Limited is not liable for damages or malfunctions under the following conditions:

- Natural disasters such as fire or earthquakes, or events like war.
- Misuse or operator errors that deviate from the instructions provided in this manual.
- Damage resulting from methods not prescribed in the user manual.
- Operation of the device without following the guidelines set forth in this manual.
- Operation of the device by an uncertified operator.

7.4 Regular Maintenance Recommendations

Proper Placement: Ensure the machine is not placed too close to walls or other obstructions; maintain at least 30 cm of clearance around the device to facilitate adequate cooling.

Section 7: Maintenance and Equipment Care

7.5 Touch Screen Calibration



REGULAR CALIBRATION IS EXTREMELY IMPORTANT AND MUST BE CARRIED OUT

Proper calibration of the touch screen is essential for accurate operation of the Perma Microneedling RF System. Follow these steps to ensure that the touch screen responds accurately to user inputs.

Step-by-Step Calibration Process

Step 1. Power On the Device:

- Turn on by the power switch to activate the system. The default screen will displayed upon powering up.

Step 2. Enter Calibration Mode:

- Tap on any area of the touch screen while at the waiting interface to access the calibration program. This mode is specifically designed to fine-tune the responsiveness of the touch interface.

Step 3. Perform Calibration:

- Carefully follow the on-screen prompts to calibrate the touch screen. Touch the symbols displayed at several locations on the screen to ensure full-screen accuracy. The typical sequence involves touching points at the top left, top right, bottom right, bottom left, and finally the centre of the screen. Each point must be pressed as precisely as possible to calibrate the touch sensitivity across the entire screen.

Step 4. Complete Calibration and Reboot:

- Once you have touched all required points and followed all prompts, the calibration will complete, and the system will automatically return to the waiting interface.
- To finalise the calibration process and ensure all settings take effect, turn off the power switch and then reboot the system. Restarting the device is critical as it helps the system to integrate the new calibration settings fully.

Ensuring Calibration Accuracy

- **Check Responsiveness:** After rebooting, test the touch screen responsiveness to ensure that the calibration has been successful. If the screen does not respond accurately to touch, repeat the calibration process.



- **Regular Calibration:** It is extremely important to regularly calibrate the touch screen or whenever you notice a decrease in responsiveness or accuracy during operation. Regular calibration maintains the precision needed for effective treatment settings and adjustments.

By following these detailed steps, you can maintain optimal functionality and accuracy of the Perma Microneedling RF System's touch screen, ensuring reliable and efficient operation during treatments.

Section 8: Technical Support

8.1 Customer Support

Customer satisfaction is our priority.

We are committed to providing exceptional customer support to ensure your satisfaction and optimal use of the Perma Microneedling RF System. Our dedicated team is available to assist you with any inquiries, troubleshooting needs, or support requests you may have.

Contact Us:

Our technical support team can be reached via post, phone, email, or through our online support portal on our website.

Technical Support Only:

Optilight Limited
Grange Farm Business Park
Old Hurst Road, Woodhurst
Cambs, PE28 3BQ

Phone: +44 (0)1487 823247

Email: info@optilight.co.uk

Website: optilight.co.uk

Hours of Operation:

Our customer service is available from 09:00 to 17:00 Monday to Friday, to provide timely and effective assistance.

Training, Assistance & Aftercare:

We offer comprehensive training sessions and detailed guidance on the use of the Perma Microneedling RF System, ensuring you feel confident and well-informed in handling your device.

If you have any clinical issues you must contact your clinical training provider.

Section 8: Warranty

8.2 Warranty Coverage

We stand behind the quality and reliability of the Perma Microneedling RF System. We offer comprehensive warranty coverage to protect your investment and ensure your peace of mind.

Coverage Duration:

Our standard warranty covers the Perma Microneedling RF System for 18 months from the date of purchase. This warranty includes parts and labour for repairs due to manufacturing defects or malfunctions.

What's Covered:

The warranty covers all components of the Perma Microneedling RF System, ensuring that any defects in materials or workmanship are addressed promptly and without cost to you, subject to the terms and conditions of the warranty agreement.

Exclusions:

The warranty does not cover damages caused by improper use, accidents, unauthorised modifications, or external causes such as natural disasters. Routine maintenance and cosmetic damages that do not affect the functionality of the system are also not covered.

Support and Service:

Our customer support team is dedicated to providing exceptional service and will assist you with any questions or issues related to your warranty coverage.

Section 9: Legal and Regulatory Notices

9.1 Disclaimer

Optilight Limited makes every effort to ensure the accuracy and reliability of the information contained in this manual. However, the information is provided “as is” without warranty of any kind. Optilight Limited disclaims all warranties, either express or implied, including but not limited to implied warranties of merchantability and fitness for a particular purpose. Optilight Limited reserves the right to make modifications to the product or its specifications at any time without notice, aimed at improving product functionality, reliability, or manufacturing processes.

Users must operate the Perma Microneedling RF System according to the guidelines and instructions provided in this manual. Failure to follow these guidelines may result in ineffective treatment outcomes, damage to the system, or personal injury. Optilight Limited will not be liable for any damages, losses, or consequences arising from the misuse of the machine, reliance on incorrect information, or deviations from the instructions provided herein.

9.2 Copyright Notice

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This document is intended for the exclusive use of licensed practitioners who have purchased the Perma Microneedling RF System. No license, right, or interest in any trademark, patent, or other intellectual property rights of Optilight Limited is granted within this document.

9.3 Regulatory Compliance

Optilight Limited ensures that the Perma Microneedling RF System complies with applicable UK regulations. Users are encouraged to maintain awareness of and comply with all relevant local regulations when operating the system and training requirements.

Section 10: Electrical Specifications

10.1 Power Specifications

The System requires a dedicated line supply of single-phase power to ensure optimal performance and safety.

- **Input Voltage:** AC 220V/50Hz or AC 110V/60Hz
- **Output Power:** 55VA
- **LED Specification:** Red 650nm/5mW

10.2 Power Supply

- **Dedicated Power Line:** To prevent interference and power fluctuations, the System should not share a power line with other equipment i.e. multiway extension lead.
- **Safety Compliant Receptacle:** Ensure that the power receptacle includes a protective earth connection and is inspected for safety compliance before connecting the System.



- **Fuse Replacement:** For continued protection against fire hazard, replace the fuse only with one of the same type and rating as originally equipped.



- **Grounding:** Proper grounding of the System is critical for safe operation. Verify that the grounding is correctly implemented to mitigate the risk of electric shock and enhance overall system stability.

These guidelines are designed to ensure that the System operates reliably and safely, minimising the risk of electrical issues and ensuring compliance with safety standards.

Section 11: Safety and environmental conditions

11.1 Hazardous substances or Elements Contained in the Product

Part Name	Hazardous substances or Elements Contained in the Product						Remark
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)	
Plastic parts	O	O	O	O	X	X	
Metal structures / decorations	X	O	O	O	O	O	
Printed Circuit Assembly	X	O	O	O	O	O	
Power Line	X	O	O	O	O	O	
Plug of Power Supply Line	X	O	O	O	O	O	
Relay	O	O	X	O	O	O	
Buzzer	X	O	O	O	O	O	

- X Toxic and had hazardous substances In at least one homogeneous materials of the part exceeds the concentration limit requirement described in SJ/T11363-2006.
- O Toxic and hazardous substance in all the homogeneous materials of the part is either below the concentration limit requirement described in SJ/T11363-2006 or is not applicable because the part is not used.
- O Products to be discarded after use. Please treat in accordance with electronic and information products recovery, re-use legal regulations.

Technical note:

Hardware structure of the machine parts, injection moulded parts, and the majority of electronic components, connectors meet the requirements of the EC and China RoHS directives. Only a few parts as the global technology limitations that may affect product reliability, and not find a substitute for the toxic and hazardous substances, please be assured to use, used under normal conditions will not cause health effects or on users.

Section 12: System Disposal

12.1 System Disposal

Proper disposal of the Perma Microneedling RF System is crucial for environmental protection and compliance with UK regulatory requirements. When the System reaches the end of its useful life, it must be disposed of responsibly to minimise its environmental impact.

- **Follow WEEE Regulations:** The disposal of the Perma Microneedling RF System must comply with the Waste Electrical and Electronic Equipment (WEEE) Directive. This legislation requires the recycling of electrical and electronic goods to reduce the volume and impact of electronic waste.
- **Using Authorised Facilities:** Ensure that the equipment is disposed of at an authorised recycling facility. These facilities are equipped to handle electronic waste in a manner that prevents harm to the environment and human health.
- **Contact Local Authorities:** Contact your local waste disposal authorities for detailed information on the proper disposal procedures in your area. They can provide guidance on complying with local regulations and direct you to the nearest authorised recycling centres.
- **Remove Personal Data:** Before disposal, ensure that all personal data stored on any digital components of the system are securely deleted to protect client confidentiality.

By adhering to these guidelines, you ensure that the disposal of the Perma Microneedling RF System aligns with environmental standards and legal requirements, contributing to sustainable waste management practices in the UK.

Perma *Microneedling RF*

Perma Microneedling RF User Manual.

Please read, understand, and follow all instructions in this User Manual carefully before using this product. Keep for future reference.

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