Phothera

Operation Manual



Your health is our purpose, and your care is our promise.



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Dear Valued Customer

Thank you for selecting a Phothera HF phototherapy unit. The use of light for the treatment of photoresponsive skin disorders has been our business since 1981. We are proud of our tradition of innovation in the field of phototherapy and are honored that you have chosen us for your phototherapy needs. Let's be clear. Our commitment to you starts...Now!

Sincerely,

The Phothera Staff

CAUTION: Federal law restricts this device to sale by or on the order of a physician or other practitioner licensed by the law of the state in which he or she practices.

1.0 Control Type

Your Phothera HF phototherapy unit is equipped with Phothera's SmartTouch[™] Control System. This control system is a standalone PC system used to control and monitor phototherapy treatments.

2.0 Indications for Use

The Phothera HF Phototherapy Devices are indicated for use to treat diagnosed skin disorders such, as but not limited to, psoriasis, vitiligo, and atopic dermatitis (eczema) under the direction of a physician. The physician will determine the light spectrum (ultraviolet to visible), the energy or duration of the treatment, as well as the treatment environment. The population may range from pediatric, when accompanied by a responsible adult to operate it, to geriatric.

3.0 Delivery and Inspection

Upon delivery, inspect both boxes and their contents. If it's not possible to inspect the unit before the driver leaves, we recommend that you write **"Concealed damage possible. Further inspection required"** on the delivery receipt. If damage is discovered after unpacking the unit, be sure to save <u>all</u> packing materials and call Phothera immediately to begin the claims process.

As part of the claims process, the delivering carrier may require that a damage inspection be conducted. The carrier may conduct the inspection at your home or they may elect to collect the package for inspection at their facilities.

Note: In addition to notifying Phothera the delivering carrier <u>must also</u> be notified of any shipping damage within twenty-four (24) hours to protect your right to an insurance claim.

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4.0 Site Selection

A location for the device should be chosen within reach of a standard, grounded electrical outlet. Extension cords are not recommended. It is important that the unit be properly grounded. It should *not* be in a location where there is foot traffic or where water or moisture might collect. It should be protected from access by children. Exposure to ultraviolet light over extended periods of time may cause carpets, wall coverings and furnishings to fade.

4.1 Electrical Requirements

In the United States and Canada, the Phothera HF is shipped with a standard three-pronged plug power cable.

- The Phothera HF **should** be plugged into any grounded household electrical.
 - The Phothera HF should not be plugged into a residual current device (RCD) or an RCD protected circuit
 - The Phothera HF **should not** be plugged into a ground-fault circuit interrupter (GFCI) or a GFCI protected circuit.

Devices that will be used overseas will be equipped with a country appropriate electrical cord and plug.

All Phothera HF devices are equipped with an onboard fuse. The fuse holder is a part of the power cord receptacle that is located on the lower left-hand side of the device. If an onboard fuse fails, call Phothera's service department to determine an appropriate replacement.

5.0 Unpacking and Assembly

5.1 Phothera HF

- 1. The Phothera HF will arrive in two separate boxes. The larger of the two contains the base along with all accessories and literature. The smaller box contains the hood.
- 2. Using two people, if possible, lift the base from its box and place it where you intend to use the device.

Note: *Be sure to remove all of the accessories, such as the manual, power cord, eyewear, and CAT6 Ethernet cable before discarding the box.*

3. Remove the hood from the smaller box and place it on the base with the arched openings facing forward.

Note: There is a flange on the bottom of the hood that fits over the upper edge of the fixture. The hood is designed to fit tightly, so it may take some pressure to seat it properly. You can connect the hood to the base using #6x1/2" self-tapping sheet metal screws on the backside of the device.

4. Connect the Phothera HF hood to the Base using self tapping sheet metel screws on the backside of the device. Find the electrical cord extending from the back of the hood and plug it into the designated receptacle on the back of the base.

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- 5. Install the Phothera HF power cord by inserting the male "D" shaped plug into the corresponding receptacle located on the back of the device. Plug the unit into a standard, electrical outlet.
- 6. Attach one end of the CAT6 ethernet cable to the back of the machine and attach the other end to the SmartTouch[™] PC.
- 7. There is an optional two-tier table cart that can be purchased separately with the Phothera HF devices that allows two units to be placed on top of each other so that a patient's hands and feet may be treated at the same time.
- 8. **Optional:** If using a Phothera HF table with your device, you can choose to mount the device to the table by removing the rubber feet from the bottom of the device, drilling pilot holes through the table, and screwing 6-32 screws through the table into the device.
 - a. To mount the Phothera HF base to the table, use a 1/8" drill bit to drill a pilot hole (HOLE#1) in the bottom left corner of the table roughly 2.5 inches from the front and roughly 4.375 inches from the inside of the left wall.
 - b. From this original pilot hole, drill another pilot hole (HOLE#2) in line with the first, roughly 16 inches to the right. Drill another pilot hole (HOLE#3) directly in the center of these two holes, roughly 8 inches from each hole.
 - c. From the two most outer pilot holes, drill two more holes (HOLE#4 and HOLE#5) in line with the two corners roughly 17.5 inches above the two in the front corners.
 - d. A diagram of the pilot hole placement is shown below in Figure 1 Pilot Hole Guide.



5.2 PC Kit Unpackaging and Assembly

- 1. Remove monitor from packaging and assemble to the manufacturing instructions.
- 2. Remove PC from box and attach DVI connector to the DVI port on the back of the PC and the back of the monitor.

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- 3. Connect surge protector to a wall power outlet and connect the power cables from the PC and monitor to the surge protector.
 - a. NOTE: For EU units this surge protector will not be included in the PC kit.
- 4. Use USB connection sites on the back of the PC to connect the accompanying keyboard and mouse.
- 5. For a single device connect 25 foot CAT6 ethernet cable from machine to the back side of the PC. For multiple machines see section 5.3 Multi-Machine Kit Unpacking and Assembly.

5.3 Multi-Machine Kit Unpacking and Assembly

- 1. Remove 5 port switch from box and connect accompanying 6 foot ethernet cable from port one on the 5 port switch to the PC.
- 2. Connect multiple machines' 25 foot ethernet cable to the remaining ports on the 5 port switch box.

6.0 Lamp Inspection

Phothera HF devices can be equipped with different types of lamps, each having a different effect on the skin. It is important to check that the proper lamps are installed. Consult the Lamp Specification Guide (see *Section 6.1 Lamp Specification Guide*.) If there is any question that your device is not equipped with the lamps that you have been prescribed, contact Phothera immediately. Lamps code numbers are generally located at the base of the lamp.

6.1 Lamp Specification Guide

| rable reality specification outle | Table | 1 Lamp | Specification | Guide |
|-----------------------------------|-------|--------|---------------|-------|
|-----------------------------------|-------|--------|---------------|-------|

| UVA | Narrow Band UVB | Broad Band UVB |
|------------|-----------------|----------------|
| PLL-36W/09 | PLL-36W/01 | PLL-36W/-06 |

7.0 **Precautions and Warnings**

- To protect the eyes during operation, the operator and anyone in view of the device must wear the provided UV blocking glasses or goggles designed to block 100% of all UVA and UVB light from the eye area when worn. Always use Phothera approved eyewear purchased through Phothera.
- Do not remove protective eyewear, or any other protective equipment, during treatment.
- If psoralens (photosensitizing drugs) are being used as part of your treatment ("PUVA"), your eyes should be protected from exposure to ultraviolet (sunlight) for 24 hours after taking the drug. Ultraviolet blocking glasses are provided with devices equipped with UVA lamps.
- Do not use over skin eruptions without express consent from the attending physician.

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- If a patient experiences burning, never treat the patient until the noticeable effects of burning subside, and always reduce the subsequent treatment time.
- To protect unaffected skin during operation, the operator, patient, and anyone in view of the device must generously apply UV blocking skin protection to all exposed skin that the physician does not intend to treat.
- Erythema can result in as little as 15 seconds of exposure, or approximately 200 millijoules of dose to UVB light. Prior to using your home phototherapy unit, contact your prescribing physician for specific treatment instructions and dosing information.
- Center patients between the lamps during treatment to avoid over exposure to isolated areas of the body.
- All people and pets should leave the area to avoid exposure to ultraviolet light.
- Ask your doctor about protecting areas of your body which have not been exposed to sunlight.
- Do not use this device for anything other than its intended purpose.
- This device is only to be used by authorized users.
- Do not operate this device with a damaged cord or plug.
- If appliance coupler or mains plug is used as the main point of disconnect, do not position the device so that it is difficult to operate the disconnection device. Ensure the device can be unplugged from the point of disconnect.
 - If necessary, operation of equipment may be terminated by disconnecting unit from AC mains. This can be accomplished by unplugging the device or, if hard wired, turning off quick disconnect.
- To avoid the risk of electric shock this equipment must only be connected to a supply main with a protective earth.
- To prevent electric shock, remove power to the device prior to cleaning and servicing.
- To eliminate the risk of fire when replacing the fuse, replace ONLY with a fuse of the same type and rating.
- **NO MODIFICATION OF THIS EQUIPMENT IS PERMITTED.** Unauthorized modification will void the warranty and may result in hazardous or improper device operation.
- DANGER ULTRAVIOLET RADIATION. As with natural sunlight, overexposure can cause eye and skin injury, and allergic reactions. Repeated exposure may cause premature aging of the skin and/or skin cancer. ALWAYS WEAR PROTECTIVE EYEWEAR: FAILURE TO DO SO MAY RESULT IN SEVERE ERYTHEMA OR LONG-TERM INJURY TO THE EYES. Medications or cosmetics may increase skin sensitivity to ultraviolet radiation. Inform physician before using this device if you are using medications or have a history of skin problems or sensitivity to light.
- If the device malfunctions, cease operation immediately. If the device is placed close to other equipment, it is possible that the cause is interference by external noise sources and fields, in which case you should follow the remedies found under EMC Precautions. If the device continues to malfunction cease operation and contact the Phothera Service Department.

- Prior to each use, always verify that the device is in correct working order and operating condition and plugs, sockets, lamps, and electrical cables and connections are not worn or damaged.
- Only original components and accessories should be used with the device to avoid damage.
- This device should be a minimum of 12 inches (30 cm) away from RF generating equipment
- Before opening the device casing to perform maintenance or service, disconnect the device from the power source.
- The device must never be directly exposed to flowing or splashing liquids of any kind. If the device is inadvertently exposed to liquid, it must be tested for safe function before being placed in operation again.
- The device contains glass lamps. Avoid excessive force to the device to prevent lamp damage.
- The device control system display is susceptible to damage from excessive force. Avoid excessive force to the control system to prevent damage.
- All treatments must be administered under the direction of a licensed physician only.
- **WARNING:** Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- Device is not to be used in MR environments that may include MRI, diathermy, electrocautery, or other high frequency equipment.
- Do not treat if the lamps fail to ignite. Consult with doctor and/or contact Phothera customer service.
- If lamps turn on without treatment being started/resumed, or if lamps do not turn off when treatment is completed, unplug the device. Contact doctor and/or Phothera customer service.

8.0 **Operating Specifications**

| Ambient Temperature: | 15°C to 30°C (59°F to 86°F) |
|----------------------------|---|
| Relative Humidity: | 10% to 95%, Non-condensing |
| Liquid Ingress Rating: | IPX0 (This device does not have protection against ingress of water.) |
| Ocular Hazard Distance: | 3 Meters (9.84 Feet) |
| Ambient Luminance: | 250 – 500 lux |

Table 2 Operating Specifications

WARNING: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.

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9.0 Labels and Symbols

A warning label (*Figure 2 Warning Label*) is affixed to your phototherapy device in a prominent and easily readable position. Please read the label carefully as it contains important safety information.



Figure 2 Warning Label

Figure 3 Identification Label

The identification label (*Figure 3 Identification Label*) is located on the back of the unit near the power cord receptacle.

The multi-machine label (090HFMM) is located on the front of the unit as a easily accessible identification of the machine.



Figure 4 Hood Power Cord Label



Figure 5 Hood Lamp Label



Figure 6 Terminal block Cover



Figure 7 Medical Device Label

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The following table lists all of the symbols affixed to the device along with their meaning: Table 3 Symbols

| SYMBOL | DESCRIPTION |
|---------------------------------|---|
| <u>Í</u> | DANGEROUS VOLTAGE |
| | NON-IONIZING RADIATION |
| | ON |
| 0 | OFF |
| | PROTECTIVE EARTH (ground) |
| ī | OPERATING INSTRUCTIONS |
| Ť | KEEP DRY |
| \triangle | CAUTION, CONSULT ACCOMPANYING DOCUMENTS |
| UVA | UVA LAMPS LABELS |
| NBUVB | NBUVB LAMPS LABELS |
| İ | Type B applied part |
| MD | MEDICAL DEVICE |
| To PC Only OgeTHPORTPC REV B | TO PC ETHERNET |

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10.0 SmartTouch[™] Instructions

10.1 Pre-treatment Preparations

The doctor is the final authority for the patients treatment, and, depending upon the patients particular circumstances, may change these directions as they see fit.

The SmartTouch[™] control system will track the patients treatment data. However, you may want to instruct the patient to bring a notebook, or treatment log, in which to record the date, dose and duration of each treatment along with any other notes regarding their treatment or treatment results. (For example, forgot lip balm, put sunscreen on tender area, etc.)

The patient will need to purchase lip balm and sunscreen with an SPF (Sun Protective Factor) of at least 30. The doctor may decide whether or not an alcohol or cream-based sunscreen should be used.

10.2 Hood Lamps

The hood lamps have an "**ON/OFF**" switch so that they can be turned off if desired. When the switch is in the **ON** position, the hood lamps will light when the base lamps turn on.

Note: On combination UVA and UVB units, the hood will always be equipped with UVA lamps.

With all combination units the UVA lamps will be the first four lamps in the unit. The UVB lamps will be the last four. Therefore, if you are using the UVA lamps, position your hands or feet at the front of the device. If using the UVB lamps, position your hands or feet in the back half of the unit.

10.3 Control System

Primarily, the devices are operated through input provided at the SmartTouch[™] control system, consisting of a stand alone PC, Windows[®] 11 Professional operating system, and Phothera SmartTouch[™] operator interface software. A secondary operation of limited functions of the machine (pause treatment, start treatment) can be controlled by the yellow button located on the front of the device.

10.4 System Logon

Input to the control system is limited to established users. To enter input into the control system, the established user must "logon" to the system. By default, each system is installed with one established user, which is assigned with the user ID, "Admin". Upon setup, each user ID, including the "Admin" user ID, is assigned the case sensitive password "daavlin". Before an assigned device operator can control the system, including the "Admin", he/she must logon using an established user ID and default password. Upon initial login, each user must change the system assigned default password.

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10.5 User Profiles

To manage control of system users, the SmartTouch[™] software has three (3) pre-programmed user profiles: Admin, Supervisor, and Operator. Each user profile has different levels of authority. When subsequent users are established in the system, a user profile is assigned. Assigning and changing the user profile should be considered carefully, as it controls user input to patient treatments.

Example: A relatively new phototherapist might only be granted authority to treat patients within the standard treatment protocols. The authority to add patients or significantly alter their treatment programs could be restricted.

Example: A highly experienced phototherapist might be granted the authority to add patients, select their skin type, edit their protocols, edit, or develop global protocols with only the authority to set up new users being withheld.

10.5.1 Admin

The Admin profile is assigned only to the "Admin" user ID and is intended for use by the primary control system administrator and has the highest level of authority, giving the assigned user unrestricted use of the system. Furthermore, logon under this profile allows the user to establish and edit subsequent user IDs for additional users.

10.5.2 Supervisor

This user ID can be assigned to multiple users. By default, users assigned with this profile have level-one and level-two functionality. Functionality can be increased or decreased simply by selecting or deselecting the functionality options.

10.5.3 Operator

This user ID can be assigned to multiple users. By default, users assigned with this profile have level-one functionality. Functionality can be increased or decreased simply by selecting or deselecting the functionality options.

10.6 Treating Patients

Authorized users enter and save patient data including name, skin type, treatment type (UVA, UVB, or a Combination), treatment frequency, etc. into the system database. Based on this information, the system automatically chooses and assigns a pre-programmed treatment protocol. Each time a treatment is initiated for a patient, the system will choose the appropriate treatment from the protocol. At this point, the user may adjust and or accept the treatment dose, based on the authority of his/her user profile. Upon acceptance of the dose, the treatment is administered by starting the machine from the Soft Touch[™] control panel or the yellow button on the front of the device.

With patients who are affected moderately on the majority of the body and severely in local areas, for example the knees and elbows, secondary treatments, subsequent to the primary treatment, may be desired in the severely affected areas to ensure proper clearing. When administering secondary treatments, the patient is typically instructed to shield areas of the

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body that are not affected or are only moderately affected, leaving only the severely affected areas exposed during the secondary treatment. The SmartTouch[™] control system allows for secondary treatments to be selected and administered if desired.

10.7 Treatment Protocols

The system is pre-programmed with default treatment protocols, which are intended to be used as treatment guidelines. The attending physician is the determining authority on all treatment doses. The treatment protocols can be edited "globally" or by individual patient. When a protocol is edited globally, all patients setup subsequent to the change will follow the new protocol. Patients setup with that protocol prior to the change will follow the previous protocol. When a protocol is edited for an individual patient, subsequent treatments for that patient only will be affected by the changes. See the Understanding How Protocols Work section of this manual for complete details on the preprogrammed protocols contained in this device.

10.8 History

When a treatment is administered, the system records relevant information in a history file. History saved includes Patient Name, Date, Time, Treatment Delivered, Treatment Duration, and User. The history record can be viewed or printed by authorized users at any time. History records are printed for individual treatments immediately following a treatment or for a patient's entire history from the history menu.

11.0 Initial Use

Before doing the initial startup, ensure the device has been properly installed by a Phothera technician or by following the instructions in section 5.0 (Unpacking and Assembly) found on page 6 of this operation manual.

11.1 Unit Startup

Power up each unit that needs connected. For a Phothera HF unit, plug in the power cord. The green LED, located on the side of the device, will become active once the power is turned on, indicating there is power to the internal controller. The internal controller will begin to go through a boot cycle that is approximately 45 seconds long. After the 45 seconds the internal controller will have completed its boot cycle, the amber LED, located beside the aforementioned green LED, will become active indicated the unit is ready to operate.

11.2 Software Startup

Once devices have been properly booted up, from the Windows[®] Desktop select the SmartTouch[™] STMM icon by double clicking. The language selection screen will be the first to display. Select the desired language flag to proceed.

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| SmartTou | Jch | | | | | | _ | |
|--------------|----------|-----------|-----------|---------|-------|------|---------|---|
| | | - <u></u> | * | - | == | C* | - | |
| English | Français | Español | · 連語 | Русский | Suomi | Türk | Svenska | - |
| ت | Lietuviu | Dansk | Português | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Figure 8 Language Selection Screen

After selecting language, the User Logon screen will appear (See Figure 9).

11.3 Administrator Selection

Prior to the initial use of the device, the primary device administrator, usually the attending physician, charge nurse, or head photo therapist, must be appointed and their user profile established in the SmartTouch[™] control system. This appointment should be considered carefully, as the system administrator will have full system operation capabilities including data manipulation, protocol editing, user setup, and system calibration.

11.4 Administrator Setup

- 1. At the User Logon screen (See Figure 9), select the *Admin* user in the **Select Username** field by tapping it once. The *Admin* user name will appear in the **User Name** field and the cursor will appear in the **Password** field.
- 2. Type the default password in the **Password** field using the keyboard at the bottom of the display, and then tap the **Logon button** once. The default password is "daavlin", and it must be entered in all lowercase letters.

| Select Username | | | | | | | | | | | |
|--|-------|------|-----|-----|---|-------------|-----------------------|--------|-----|-----------------------|---|
| User Name Admin cstanton | User | Name | | | | G | .ogon | | | | |
| vtran aarnold agutierrez bcollins | Passy | vord | | | | م | hange i | Passwo | rd | | |
| ctraver ewong ewood kliwanag | | | | | | I ° | lear Na | me | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | 1 | 2 3 | 4 | 5 6 | 78 | 9 | 0 - | | B |
| | | | 200 | | | and in case | and the second second | - | | and the second second | |

Figure 9 User Logon Screen

Note: The system will now require the administrator to select and setup a new logon password. It is important to remember the new password, as the system will only allow subsequent logon using the new password. Passwords should be kept secret, as the system will record the User Name in system activity history. The **Password** is limited to 1 – 10 characters of any combination.



- 3. The Change Password screen will be displayed (See Figure 10). The **Old Password** field will be populated automatically by the default password, and the cursor will be in the **New Password** field.
- 4. Type the new password in the **New Password** field, and then tap the **Tab** button once. The cursor will move to the **Confirm Password** field.
- 5. Retype the new password, and then tap **Save** once. The loading screen will pop up and the computer will connect to each of the devices. After connecting, the Main Menu screen will be displayed (See Figure 11). System administrator setup is complete.

| SmartTouch | | | Welcome Admin |
|--|----------------------------|--|--|
| Change Password | | | |
| Old Password New Password Confirm Password | | Save | |
| | Tal Caps Shit Ctr | 1 2 3 4 5 6 7 q w e r 1 y 4 Lock \ a s d f g \ z x c v b n Other Chans | 8 9 0 - = Back i o p [] Enter h j k 1 ; * m . . ./ Shift EN Space . |

Figure 10 Change Password Screen





Figure 11 STUV Main Menu Screen

| Multi-Mechine: Roam 1 (1) P1020 (Full Body, 311-48) | SmartTouch |
|--|---|
| User : Factory5 Home | Change Uker Est About Welkome Factory5 |
| Add New Patient Edit Patient Treat Patient Reports | Room 1 (1) P10208 Normal Normal |
| Lamp Warmup Edit Stobal Protocol | |
| System Settings Etits/Featment Field Survice/Factory | |
| | |

Figure 12 Main Menu Screen for STMM



12.0 Dashboard Device Selection (Multiple-Machine ONLY)

If using STMM with multiple machines connected to the PC, docked on the right-hand side of the screen you will see the SmartTouch[™] Multiple Machine Dashboard window. This window will allow you to select which device is active in the Main Window. The 'active' device will be indicated by a black box in the top center of the device's dashboard status window. The serial number for the 'active' device will also be indicated in the top left corner of the Main SmartTouch[™] window. Each 'instance' of SmartTouch[™] will get its own box in the dashboard.

The Dashboard Window will be used for the following:

- 1. Actively monitor the status of each device connected to SmartTouch™ Multiple Machine software
- 2. Select device to be controlled/monitored in the Main SmartTouch™ Window
- 3. Change User
- 4. Exit SmartTouch™ Multiple Machine application







13.0 New User Setup

Only authorized users can perform this function.

Warning: Entering improper or erroneous data in the New User Setup process could result in serious patient injury. The data entered when setting up a patient will determine which preprogrammed protocol is selected for the patient treatments, and therefore directly impacts the patient's treatment dose. Only highly skilled and trained personnel should perform this process.

- Logon to the SmartTouch[™] control system and tap the User Setup button once from the Main Menu (See Figure 11). The Select a Username screen will be displayed (See Figure 28).
- Tap the Add New User button once. The User Setup screen will be displayed (See Figure 14) and the cursor will appear in the User Name field.
- 3. In the **User Name** field, type the user's common name or nickname, and tap the **Tab** key once. (This is the name that will appear in the Username List). The cursor will move to the **Last Name** field.
- 4. In the Last Name field, type the user's last name / family name, and tap the Tab key once. The cursor will move to the First Name field.
- 5. In the **First Name** field, type the user's first name / given name and tap the down arrow button once in the **User Status** drop down window.

Note: The **User Name**, **Last Name**, and **First Name** are limited to 1 - 10 characters of any combination.

- 6. Select the type of user, "Operator" or "Supervisor", from the **User Status** drop down window by tapping once on the chosen type. The default system capabilities will automatically be selected based on the chosen user type. A selected system capability is denoted by the appearance of a check mark in the white selection box next to the capability description.
- 7. If desired, select or deselect system capabilities to be granted to the user by tapping once on the white box next to the capability. To select or deselect an entire level, tap once on the white selection box next to the level heading.
- 8. Save the user's profile by tapping once on the **Save Changes** button. The message "Saving User Data" will appear during the save process, and then the message "User Data Saved" will appear momentarily. The user is now saved, and the system is ready for the next operation.
- 9. Subsequent users can be added by repeating steps 2 8 of this instruction.

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10. To exit to the Main Menu screen, tap once on the **Exit** button. Instructions for performing the other User Setup functions are located in the Edit User Data section of this manual.

| SmartTouch Welcome Admin | | | | | | | |
|--|--|--|-----------------------------|--|--|--|--|
| User Setup Home / Select User / User Setup | | | | | | | |
| User Name User | Last Name | First Name | User Status Operator | | | | |
| Level I | Level II | Level III | Level IV | | | | |
| Administer treatments within the limits | Add New Patients | Edit global protocols | E Setup Users | | | | |
| Edit Patient Information (name, birthdate, etc) | Edit Treatment Information (Skintype, MED, etc) | Change treatment variables | Reset database to factory | | | | |
| Write Patient Notes Print Reports | Administer treatments outside the limits View Control Panel (to change date, volume, etc) Respond to System Messages View Lamp Data | Save settings as default | | | | | |
| Add New User | Select User | · 1 2 3 4 5 | 6 7 8 9 0 - = Back | | | | |
| Reset Password | Save Changes | lab q w e r CapsLock \ a s d | t y u i o p l j Enter | | | | |
| Delete User | Exit | Shift \ z x c Ctrl Other Chars | v b n m / Shift EN Space | | | | |

Figure 14 User Setup Screen



14.0 User Logon

Warning: It is important that all users logout when immediate system activity will not be performed by the user, when the system is left unattended, or when other individuals could have unsupervised access to the system. Logout will prevent unauthorized users from performing system functions that are potentially hazardous to patients and property.

To ensure accurate records, always verify that the date and time shown at the top left corner of the display and the user name located at the top right corner of the display are accurate before proceeding.

14.1 Initial Logon

Upon initial logon of a new user, the SmartTouch[™] software will require the user to change the default password.

- At the logon screen (See Figure 9), select the assigned user name in the Select Username box by tapping it once. The selected user name will appear in the User Name field and the cursor will appear in the Password field.
- 2. Type the default password in the **Password** field using the keyboard at the bottom of the display, and then tap the **Logon** button once. The default password is "daavlin", and it must be entered in all lowercase letters.

Note: The system will now require the user to select and setup a new logon password. It is important to remember the new password, as the system will only allow subsequent logon using the new password. Passwords should be kept secret, as the system will record the user name in system activity history. The **Password** is limited to 1 – 10 characters of any combination.

- The Change Password screen will be displayed (See Figure 10) with the Old Password field automatically populated by the default password, and the cursor will be in the New Password field. Type the new password in the New Password field, and then tap the Tab button once. The cursor will move to the Confirm Password field.
- 4. Retype the new password, and then tap **Save** once. The Main Menu screen will be displayed (See Figure 11), the user password will be changed, and logon is complete.

Note: Although all default buttons will appear on the Main Menu screen, only those operations that the user is authorized to use will be functional. Functioning buttons are shown in black, while non-functioning buttons are shown in gray.



14.2 Subsequent Logon

Only authorized users can perform this function.

- At the User Logon screen (See Figure 9), select the assigned user name in the Select Username box by tapping it once. The selected user name will appear in the User Name field and the cursor will appear in the Password field.
- 2. Type the chosen user password in the **Password** field using the keyboard at the bottom of the display, and then tap the **Logon** button once. The Main Menu screen will appear (See Figure 11), indicating that the user logon is complete.

Note: Although all default buttons will appear on the Main Menu screen, only those operations that the user is authorized to use will be functional. Functioning buttons are shown in black, while non-functioning buttons are shown in gray.

15.0 New Patient Setup

Only authorized users can perform this function. To successfully complete new patient setup, data is required in the following fields, areas, and boxes: **Patient PIN**, **Last Name**, **First Name**, **Birthdate (mm/dd/yyyy)**, **Language Preferences**, **Skin Type**, **Treatment Type**, **Schedule**, and **Patient's MED** (if applicable).

- 1. Logon to the SmartTouch[™] control system and access the Main Menu screen.
- 2. Select the **Add New Patient** button, by tapping it once. The Patient Setup screen will be displayed (See Figure 14), and the cursor will appear in the **Patient PIN** field.
- 3. Enter the desired patient personal identification number (PIN) in the **Patient PIN** field using the keyboard at the bottom of the display and press the **Tab** key once to move to the **Last Name** field.
- 4. Type the user's last name / family name and tap the **Tab** key. The cursor will move to the **First Name** field.
- 5. Type the user's first name / given name and tap the **Tab** key. The cursor will move to the **M.I.** field.

Note: Entry of the **Patient PIN**, **Last Name**, and **First Name** is limited to any combination of 1 - 10 alphanumeric characters.

- 6. If desired, type the first initial of the patient's middle name. The cursor will automatically move to the **mm** field of the **Birthdate**.
- 7. Type the two-digit numeric equivalent of the month in which the patient was born. The cursor will automatically move to the **dd** field.
- 8. Type the two-digit numeric equivalent of the day in which the patient was born. The cursor will automatically move to the **yyyy** field.

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9. Type the four-digit numeric equivalent of the year in which the patient was born. The cursor will automatically move to the **PASI** field.

Note: The birth date must be entered in the following format mm/dd/yyyy, for example, enter 05/14/1971 for a patient whose birthday is the 14th day of May 1971.

- 10. If desired, type the patient's PASI score, or tap the **Tab** key once. The cursor will move to the **Languages Preferences** drop down box.
- 11. Tap once on the down arrow button in the **Languages Preferences** drop down box. A list of all available language options for patient-directing voice announcements is displayed.
- 12. Tap once on the language preferred by the patient. If the patient prefers not to hear voice announcements, select the "No Voice" option. The selected language will be displayed in the drop-down box and the drop-down list will be minimized.
- 13. Select the patient's preference for voice announcements, "Male" or "Female", by tapping once on the applicable circle in the **Language Preferences** box.

Warning: The patient-directing voice announcements of this device are safety features used to inform the patient of the treatment status, protective procedures, and system failures. While selecting the "No Voice" option will prevent the patient from hearing these important safety messages, graphic messages will continue to be displayed on the external control system to keep the operator informed of the system status.

- 14. Select the patient's skin type by tapping once on the circle next to the appropriate skin type in the **Skin Type** box.
- 15. Select the type of treatment intended for the patient by tapping once on the applicable circle in the **Treatment Type** box.
- 16. If the treatment type includes UVB, the Patient's MED field will appear. Tap once in the Patient's MED field to move the cursor to this position, and enter the patient's MED. If the patient's MED is unknown and an MED test shall not be performed, tap once on the Suggested MED Range button. The MED range for the skin type selected will be displayed. After determining the MED to be used, tap ok once to close the Suggested MED Range window. Type the MED to be used in the Patient's MED field.
- 17. If secondary treatments are desired, select the type of secondary treatment by tapping once on the square next to the appropriate secondary treatment type (UVA or UVB) in the **Secondary treatment** area located above the **Skin Type** and **Treatment Type** boxes.
- 18. Select the treatment frequency schedule by tapping once on the circle next to the desired schedule in the **Schedule** box.

Warning: Entering improper or erroneous data in the Patient Setup process could result in serious patient injury. The data entered when setting up a patient will determine which preprogrammed protocol is selected for the patient treatments and therefore directly impacts the patient's treatment dose. Only highly skilled and trained personnel should perform this function under the guidance of the attending physician.

Note: Choose the Treatment Type, Patient's MED (if applicable), and Skin Type carefully. This data determines the treatment protocol selected and cannot be edited once a treatment has been administered.

- 19. Save the patient's profile by tapping once on the **Save** button. The message "Saving Patient's Data" will appear during the save process and then the message "Patient's Data Saved" will appear momentarily. The patient data are now saved, and the system is ready for the next operation.
- 20. Subsequent patients can be added by repeating steps 2 19 of this instruction.
- 21. To exit to the Main Menu, tap once on the **Exit** button. Instructions for editing patient's profiles are located in the Edit Patient Data section of this manual.

| SmartTou | ch | | | | Welcome Factory5 |
|-------------------|--------------|-----------------|------------------|------------------|-----------------------|
| Patient Setup | | | | | Home / Patient Setup |
| Patient PIN | Last Name | First Name M.I. | Birthdate | PASI Diagn | osis Billing |
| | | | mm dd ywy | | • |
| Active | Change | | | Co | des: means unselected |
| Secondary Treatme | ent | | | | |
| Skin Type | Machine Type | Treatment Type | Schedule | Language Prefer | rences |
| • I • IV | Full Body | 🕒 Hi UVB | • 11011 | No Voice | |
| • II • V | | C Lo UVB | © 3/week | | |
| | | 🔘 Vit UVB | © 2/week | | |
| | | Clear Treatment | C As Required | Treat Patient | View/Edit Schedule |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | 1 2 3 4 | 5 6 7 8 9 | 0 - = Back |
| | | | Tab q w e | r t y u i | |
| Save | Exit | Notes | CapsLock \ a s | | i k I Enter |
| Add New | Select | | Shift \ z x | c v b n m | / Shift EN |
| Patient | Patient | | Ctrl Other Chars | | Space |

Figure 15 Patient Setup Screen

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16.0 Selecting a Patient

Only authorized users can perform this function. Searches are performed to select patients for treatment or to view and edit patient data.

1. From the Main Menu press the **Edit Patient** button for editing or viewing patient data or press the **Treat Patient** button to administer a patient treatment and then follow one of the three search methods listed below.

| h Patient | | | | | | | Home / Search Pati | ent 📄 | | |
|-----------------------|-------------------|--------------|------|-----------------|------|---|---|----------------------------------|----------------|--|
| Select Patient by PIN | | Search By Na | me | | | | | Change User | Exit | |
| | | Last Name | | First Name | M.I. | Q | To view all names, leave the fields blank. | Welcome Factor Room 1 (1) P10 | 208 | |
| Last Name | First Name | | M.I. | Patient PIN | - | | | | Search Patient | |
| TestA | Foot Full Body | | | testa-FollBody | - | | | | | |
| TestA | Hand | | | testa-Hand | - | | | | | |
| TestAB | Foot | | | testab-Foot | | | | | | |
| TestAB | Full Body | | | testab-FullBody | | | | | | |
| TestAB | Hand | | | testab-Hand | | | | | | |
| TestB | Foot | | | testb-Foot | - | | | | | |
| | | | | | | | | | | |

Figure 16 Select a Patient Screen

16.1 Search Options

The three available patient search methods are:

- <u>By PIN</u>: In the Select Patient by PIN... field, enter the patient's PIN and press Go. The Treatment Setup screen or Patient Setup screen, as applicable, will appear. To perform a search using this method, the complete and exact patient PIN must be used.
- <u>By Name</u>: Select any of the Search by Name... fields (Last Name, First Name and M. I.) then type one or more letters of the associated name and press Search. A list of patient names from the database in alphabetical order beginning with the first letter typed will be displayed. To select the desired patient, tap once on the patient name.
- **Browse the Entire Database**: Press the **Search** button with all fields blank. A list of all the names in the database will appear in alphabetical order. Tap the down arrow or drag the slide downward until you find the patient's name. Touch the name to select it.

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At anytime during this process, press the **Cancel** button to exit to the Main Menu.

17.0 Treating a Patient

Only authorized users can perform this function.

- 1. Logon and access the Main Menu.
- 2. Use the Dashboard to select the device the patient is to receive treatment on.
- 3. Select the patient to treat following the **Selecting a Patient** instructions in this manual.
- 4. The Treatment Setup screen will appear (See Figure 17). This screen displays the Previous, Current (proposed), and Next treatment information, based on the assigned protocol. If the secondary treatment option was chosen when the patient was set up, a proposed secondary treatment will also be displayed.

| Multi-Machine: Room 1 (1) P1020 (Full Body, 311-48) | | | Dashboard |
|---|-------------------------|---|--------------------------|
| SmartTouch | | Welcome Factory5 | SmartTouch |
| Treatment Setup | | Home / Search Patient / Treatment Setup | |
| | testa-Foot - Foot TestA | | Change User Exit About |
| | | | Welcome Factory5 |
| | | | Room 1 (1) P10208 Normal |
| UVB Treatment | | | |
| Treatment Prep | Accept? Previous Curre | nt Next | Ireatment Setup |
| | Primary (mJ) n/a 150 | 2 | |
| Codes: means | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Continue View Schedule | | | |
| Change Position Cancel | | | |

Figure 17 Treatment Setup Screen

5. If no variation from the recommended current dose is desired, check the Accept? box for both the primary and secondary treatment (if giving a secondary treatment). If no secondary treatment is necessary, do not check the secondary Accept? box. See the Changing the Treatment as you go section of this manual for instructions on changing the recommended dose before treating.

Warning: To prevent serious patient injury, always verify the dose displayed in the Current field before accepting the dose and continuing with the treatment process. To avoid serious injury by administering the wrong treatment to the patient, always verify that the patient's name and PIN shown at the top left corner of the display match the patient receiving treatment before administering the treatment.

6. Press the **Continue** button. The Treatment in Process screen will appear (See Figure 18).

Note: If the *Accept?* Box is left blank and the *Continue* button is pressed, no treatment will be given. A window will appear reminding you to select a treatment. You must select (check) one box to continue.

| 11111 - UVB Q Test | | | | | | Home / S | earch Patient | /Treatment Setup | /Treat Patient |
|--------------------|--------|-------|----------|--------------|-------|------------|---------------|------------------|----------------|
| | | | Prima | ry Treatment | | | | | |
| | Given | Elaps | sed Time | Sched | Est.⊺ | Treat Time | | FAN ON/OFF | |
| UVB | 0 | 0 | 0 | 140 | 0 | 25 | | | |
| | mJoule | Min | Sec | mJoule | Min | Sec | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | 6/9/2006 | 9:34:15 AM | |
| | | | | | | | | | |
| | | | | | - | | | | |
| | | | | <u>1</u> 2 | 3 4 | 156 | 789 | 0 - = | BKS |
| | | | | Tab q w | e | rty | ui | 0 p [|] \ |
| | | | | Caps a | SC | l f g | h j k | (<u> ;</u> ' | Enter |
| | | | | Shift Z | X | c v b | nm | , . / | Shift |
| Treatment Exit | | | | Ctrl Al | t | | | Alt | Ctrl |

Figure 18 Treatment in Process Screen

- 7. Press **Begin Treatment** or press the yellow start/stop button on the front of the machine to start the treatment process. After a ten second delay, the lamps will turn on and the treatment will begin. To cancel the treatment without proceeding, press **Exit**.
- 8. During treatment, the scheduled dose (**Sched**) and the estimated treatment duration (**Est. Treat Time**) are shown on the right side of the display and the accumulated dose (**Given**) and elapsed treatment time (**Elapsed time**) are shown on the left side of the

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display. When the treatment is complete, the lamps will turn off and the Treatment Complete screen will appear (See Figure 20).

9. Treatment can also be monitored using the Dashboard (See Figure 19). The treatment information in the dashboard will be displayed independent of which device is 'active' in the Main Window. This will allow for all instances to be monitored at the same time.



Figure 19 Dashboard Treatment in Process Display

Note: The treatment time estimate may not be accurate at the beginning of the treatment. If, for example, the previous treatment was short, the lamps may not have fully warmed up. Since the current time estimate is based on the previous treatment's lamp output, this would make the system estimate a large amount of time for the current treatment. If it seems excessive, pay attention, but do not stop the treatment. If the treatment time estimate does not seem reasonable after one minute, stop the treatment.

10. If a printed treatment summary is desired, press the **Print Treatment Summary** button to obtain a hard copy record of the treatment. The printed record includes: Patient name, PIN, Prescription, the delivered treatment time and dose, the scheduled treatment dose, the date and time of treatment and the User's name.



| | | | Primary | Treatment | | | |
|-------|-----|--------|-----------------|---|--|--|---|
| | | Given | Elapsed Time | Sched | Est. Treat Time | FAN ON/OFF | |
| | UVB | 141.0 | 0 24 | 140 | 0 25 | | |
| | | mJoule | Min Sec | mJoule | Min Sec | | |
| | | | | | | | |
| | | | | | | | |
| | | | Primary Treatme | int Complete | | | |
| | | | | | | | |
| | | | | | | 6/0/2006 0-27-45 | 184 |
| | | | | | | 0/9/2000 9.37:13 F | AIVI |
| | | | | | | | |
| | | | 1 | | | - 1 - 1 - 1 - 1 | [_[DKG |
| | | | | 1 2 | 3 4 5 6 | 7 8 9 0 | - I = I BK3 |
| | | | | 12 Tabl g w | 3 4 5 6 | 7 8 9 0 | |
| | | | | 1 2 Tab q w | 3 4 5 6 e r t y | 7 8 9 0 u i o p | - = BK: |
| | | | | 1 2 Tab q W Caps Caps a | 3 4 5 6 e r t y s d f g | 7 8 9 0 u i o p h j k l | - = BK: [] \ ; ' Ente |
| Begin | 7 | | Print | 12TabqwCapsaShiftz | 3 4 5 6 e r t y s d f g x c v b | 7 8 9 0 u i o p h j k 1 n m , . | - = BK: [] \ ; ' Ente / Shift |

11. Press the **Exit** button to return to the Main Menu screen.

Figure 20 Treatment Complete Screen

17.1 Pausing the Treatment

Press the **Pause** button on the Treatment in Process screen.

OR

Press the yellow start/stop button of the front of the machine.

17.2 Resuming the Treatment

Press the **Resume** button on the Treatment in Process screen.

OR

Press the yellow start/stop button on the front of the machine.

17.3 End of Protocol Treatments

All UVA protocols have 25 standard treatment steps and all UVB protocols have 29. Upon entry of all treatments subsequent to the 25th (UVA) and 29th (UVB) treatment the operator will be prompted with a message asking them if they would like to add a treatment to the protocol. The operator must select "Yes" before selecting any other field to add a subsequent treatment or "No" to exit the treatment screen. The system will no longer suggest a dose but will leave the CURRENT DOSE field blank. The operator

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must determine and enter each treatment dose from that time forward, with limitations. See the Warning Rules and Authorities section of this manual for those limitations.

17.4 History

The SmartTouch™ software maintains a complete treatment history of each patient.

- 1. To access a patient's historical records, press **Edit Patient** from the Main Menu.
- 2. Press the View/Edit Schedule button, on the Edit Patient Screen.
- 3. Then press the **View History** button to move to the Patient History screen.
- 4. Use the >>> or <<< (scroll) keys to view the entire history.
- 5. Press the **PRINT** button to print a hard copy of the Patient's entire treatment history.

17.5 Cleaning/Disinfection Between Treatments

All customer contact surfaces and accessories should be cleaned between treatments / uses of the machine. To keep the device clean between each treatment, apply 70% isopropyl alcohol or 1 part bleach 3 parts water solution to a non-abrasive cloth and wipe the patient contact surfaces free of any dust, dirt, and debris. Patient contact surfaces typically include the internal and external handles and platform but may include other areas of the device. See the accompanying *Installation and Service Manual* for complete cleaning and maintenance instructions.

18.0 Changing the Treatment as you go

Warning: Entering improper or erroneous data when changing the treatment dose as-you-go could result in serious patient injury. Be sure to read and understand the Understanding How Protocols Work section of this manual before changing a patient's treatment dose. Only highly skilled and trained personnel should perform this process.

18.1 Changing the Proposed Dose

Only authorized Users can perform these functions. The Users must be logged in and in the Treatment Setup screen.

1. From the Treatment Setup screen (See Figure 17), make desired changes to the dose in the **Current** field.

Note: When entering the new dose, be sure to use decimal points as appropriate. For example, a dose of one and a half joules should be entered as 1.5 J.

- 2. Put a check in the box under the check box labeled **Accept?** to indicate that the dose is acceptable for the treatment.
- 3. Press the **Continue** button. The Treatment in Process screen will appear.

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Note: The treatment in process screen will appear if the newly proposed dose does not exceed built-in limitations or the operator has the authority to make the proposed change. Otherwise, a warning will be displayed on the screen.

18.2 Changing Position

To move a patient's treatment forward or backward in the protocol, follow these instructions.

- 1. While at the Treatment Setup Screen (See Figure 17), press **Change Positions**. The Change Protocol screen will appear.
- 2. Use the >>> or <<< (scroll) keys to view the entire protocol.
- 3. Find the position in the protocol (past or future) that fits the patient's needs and select it by tapping it with the stylus.
- 4. A message, which requires confirmation, will be displayed verifying the new position. Press **Yes** to proceed or **No** to cancel.
- 5. If accepted, the new position will become the current dose.

Note: If the position is moved higher in the protocol and it exceeds the standard safety limit increase from the previous dose, a warning stating that the "**dose entered is high**" is displayed. Press **Yes** to proceed or **No** to cancel. If the user has the authority to accept this change and override the warning, the system will proceed. If not, the Authorization Screen will appear.

19.0 Warning Rules and Authorities

The SmartTouch[™] control system has been designed to provide flexibility in providing treatments while ensuring safety and protection from poor judgment. When an operator whose authority is limited to treating within established limits enters a dose that is beyond those limits, the system responds in two ways:

A warning is displayed, denoted by a gray message window when a dose is entered that is slightly beyond limit. To proceed, press **Yes**, or to return to the previous screen, press **No**.

If the operator selects **Yes**, and the dose selected is beyond the protocol limits, an Authorization PIN is requested. A red message window will appear, and a list of authorized users will be provided. To proceed, one of the listed users will have to enter their **User Name** and **Password** then press **Continue** to accept the changes. If the

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changes are not acceptable, then press the **Cancel** button to return to the previous screen.

Note: In the Dashboard Window a warning message will be indicated by a red bar around the status window for the device where the warning is present. Selecting this instance will display warning message in entirety.

| SmartTouch | | | Welcome Test |
|--------------------|---------------------------------------|--|---|
| Treatment Setup | | | Iome / Search Patient / Treatment Setup |
| | | 12345 - Test T Test | |
| | | ****Dose too high!!**** | |
| 0000 | | Authorization is Required | |
| UVB In | | Please enter a username and password to continue | |
| | Select Username User Name Admin | UVB Treatment: 300 mJ User Name Password Continue Cancel | e |
| Continue | View Schedu | . 1 2 3 4 5 6 7 8 9 0 - = Tab q w e r 1 y u i o p []] | Back Enter |
| Change Position | Cancel | CapsLock a s d f g h j k l . Shift \ z x c v b n m . / Shift | EN |

Figure 21 Authorization Screen

19.1 Rules for Warning Messages

The authorization rules applicable throughout the system are described below:

19.1.1 When Setting up a Patient

• If an operator enters an MED that is below the suggested range, an FYI warning is displayed.

OR

• If an operator enters, an MED above the highest value in the range an authorized user's PIN must be entered to have the value accepted.



19.1.2 When Treating or Editing a Patient's Protocol

A warning will be displayed when:

UVA

• The operator changes a dose to a value that is between 1 and 2 steps beyond the current dose

OR

• The operator changes a dose to a value that is greater than the largest difference between consecutive treatments for that treatment schedule.

UVB

• The operator changes a dose to a value that is between 1 and 2 steps beyond the current dose

OR

• The operator changes a dose to a value that represents a percentage change from the previous dose that is greater than the largest percentage increase for that schedule.

Both UVA and UVB

• If the time since the last treatment is greater than the Maximum Time between Treatments (Authorization is Not Required) but less than the Maximum Time between Treatments (Authorization is Required).

OR

• If the time since the last treatment is less than 18 hours. (See Treatment Variables in the System Settings section of this manual).

An Authorization PIN will be required when:

- UVA
 - The difference between the current dose and the previous dose is two times greater than the largest difference between consecutive treatments for that schedule.

UVB

• The operator changes the dose to a value greater than 2 steps beyond the current dose.

OR

• The percentage change between the current dose and the previous dose is greater than the largest percentage increase for that schedule.

Both UVA and UVB

• If the time since the last treatment is greater than Maximum Time between Treatments (Authorization is Required). (See Treatment Variables in the System Settings section of this manual).

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20.0 Edit Patient Data

- 1. Touch[™] control system.
- 2. From the Main Menu, select the **Edit Patient** button by tapping it once. The Select a Patient screen will appear (See Figure 16).
- 3. Follow the instructions in the Selecting a Patient section of this manual. Once the patient has been selected, return to these instructions, and continue with the desired edit function listed below.

20.1 Notes

To add, edit, or view patient specific notes for the selected patient, tap the **Patient Notes** button once. Add, edit or view notes as desired in the Patient Notes screen (See Figure 22). Close the Patient Notes screen and save additions or changes to the notes by tapping the **Ok** button once or close the Patient Notes screen without saving additions or changes to the notes by tapping the **Dk** button the **Cancel** button once.



Figure 22 Patient Notes Screen

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20.2 Personal Data

To edit Last Name, First Name, M. I., or Birthdate, follow these instructions:

- 1. Tap twice on the appropriate field to highlight and replace all data in the field or touch the stylus to the specific area of data in the field to be changed. Hold the stylus against the display and slide it over the data to be replaced. In either case, the data highlighted in blue will be replaced with new data as it is typed.
- 2. Using the keyboard at the bottom of the display, type the new data.
- 3. When all editing is complete, tap the **Save** button once to save the data.
- 4. Tap once on the **Exit** button to return to the Main Menu.

To edit Language Preferences, follow these instructions:

- 1. Tap the down arrow button once in the **Languages Preferences** drop down box. A list of all available language options for patient-directing voice announcements is displayed.
- 2. Tap once on the language preferred by the patient. If the patient prefers not to hear voice announcements, select the "No Voice" option. The selected language will be displayed in the drop down box and the list will be minimized.
- 3. Edit the patient's preference for voice announcements, "Male" or "Female", by tapping once on the applicable circle in the **Language Preferences** box.

Warning: The patient-directing voice announcements of this device are safety features used to inform the patient of the treatment status, protective procedures, and system failures. While selecting the "No Voice" option will prevent the patient from hearing these important safety messages, graphic messages will continue to be displayed on the external control system to keep the operator informed of the system status.

20.3 Treatment Data

To edit a patient's protocol or a global protocol, follow the instructions in the Edit Protocols section of this manual. The Skin type, Treatment type, and MED cannot be changed for a particular patient once a treatment has been administered for that patient.

21.0 Understanding How Protocols Work

21.1 UVA Protocols

Primary Treatments

UVA protocols use absolute numbers and differ from narrow band UVB protocols in that a change at any given position does not automatically affect the succeeding treatments in the protocol.

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Secondary Treatments

Secondary UVA doses also use absolute numbers that have a direct relation to the primary dose, which is usually half, but this depends on the patient's Skin Type and the Treatment Schedule.

See the tables in the UVA Protocol Values section of this manual.

21.2 Narrow Band UVB Protocols

Primary Treatments

The key to understanding narrow band UVB protocols is to remember that they are percentage based, rather than a progression of absolute numbers as in the case of UVA protocols.

- The first treatment of a narrow band UVB dose is always a **percentage of the MED** that was entered when the patient was set up. Therefore, if the patient's MED was entered as 100 millijoules and the chosen protocol calls for a first dose equal to 70% of the MED, that treatment will be 70 millijoules.
- Each subsequent dose will be a **percentage increase over the previous dose**. Therefore, if the protocol calls for the second dose to be a 10% increase over the previous or first dose, in the example above, the second dose would be 77 millijoules, or 1.1 times 70 millijoules.

Therefore, when editing a global narrow band UVB protocol, the percentage by which that particular treatment will increase over the previous treatment is changed, or in the case of treatment number one, the percentage of the MED that will be delivered. It is important to keep in mind that each treatment has an effect on all succeeding treatments. Therefore, if a patient's dose is changed, subsequent doses will automatically update to reflect the percentage increase of the new dose.

See the tables in the Narrow Band UVB Protocol Values section of this manual.

Secondary Treatments

Secondary narrow band UVB doses are set at 50% of the primary dose by default. This is standard throughout the narrow band UVB protocol. Therefore, if the primary dose is scheduled for 250 millijoules then the secondary does is 125 millijoules.



21.3 HI and LOW Narrow Band UVB Protocols

Both high and low narrow band UVB protocols operate under the same principles. The difference is the aggressiveness of the protocols. See the following table:

| Skin | % of MED for th | ne 1 st Treatment |
|------|-----------------|------------------------------|
| Туре | HI- NB UVB | Low- NB UVB |
| 1 | 70 | 30 |
| 2 | 70 | 30 |
| 3 | 70 | 30 |
| 4 | 70 | 30 |
| 5 | 70 | 30 |
| 6 | 70 | 30 |

Table 4 HI and LOW NBUVB Protocols

High narrow band UVB protocols start out more aggressively but have smaller percent increases while Low narrow band UVB protocols start at a lower percentage of the MED but increase more aggressively. The High narrow band UVB protocol is overall the most aggressive protocol. See the Narrow Band UVB Protocol Values section of this manual.

21.4 As Required Protocols

The As Required Protocol is an open protocol, which is <u>not</u> self-adjusting. This protocol allows the User (if they have the authority) to manually enter in a dose as needed. This protocol will always suggest the previous dose as the current dose each time the patient is treated. If treatment adjustment is required, then the User can make the adjustments on-the-fly or prior to the treatment in the View/Edit Patient's Schedule screen.

21.5 End of Protocol – Maintenance Treatments

When a patient's protocol has reached its end (becoming maintenance therapy), the User must establish the dose for each subsequent treatment. This operates the same as if the patient was on an **As Required Protocol**.

- 1. UVA protocols are 25 treatments long.
- 2. Narrow Band UVB protocols are 29 treatments long.

After a protocol has ended

- Each time the patient is selected for a treatment a gray message box appears asking "Do you wish to add another treatment", select Yes to proceed or select No to cancel the treatment.
- 2. If you wish to add additional treatments before a treatment is selected, see the **Edit Protocols** section of the manual.

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21.6 UVA Protocol Values

21.6.1 UVA Clearing Phase Protocols (Skin Types I - III)

Number of Treatments = 25

UVA, Skin Type I, 11011

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 0.5 | 0.5 | 1.0 | 1.0 | 1.5 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| SECONDARY DOSE (JOULES) | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

UVA, Skin Type I, 3/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.0 | 3.5 | 3.5 | 3.5 | 4.0 | 4.0 | 4.0 | 4.5 | 4.5 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| SECONDARY DOSE (JOULES) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

UVA, Skin Type I, 2/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 | 3.0 | 3.5 | 3.5 | 3.5 | 4.0 | 4.0 | 4.0 | 4.5 | 4.5 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| SECONDARY DOSE (JOULES) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |

UVA, Skin Type II, 11011

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 1.5 | 1.5 | 2.0 | 2.0 | 2.5 | 2.5 | 3.0 | 3.0 | 3.5 | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 | 5.0 | 5.5 | 5.5 | 6.0 | 6.0 | 6.5 | 6.5 | 7.0 | 7.0 | 7.5 |
| SECONDARY DOSE (JOULES) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |

UVA, Skin Type II, 3/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| SECONDARY DOSE (JOULES) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |

UVA, Skin Type II, 2/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PRIMARY DOSE (JOULES) | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| SECONDARY DOSE (JOULES) | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |

UVA, Skin Type III, 11011

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| SECONDARY DOSE (JOULES) | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |

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UVA, Skin Type III, 3/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| SECONDARY DOSE (JOULES) | 2.0 | 2.5 | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |

UVA, Skin Type III, 2/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 3.5 | 5.0 | 6.5 | 8.0 | 9.5 | 11.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| SECONDARY DOSE (JOULES) | 2.0 | 3.0 | 4.0 | 5.0 | 5.5 | 6.0 | 6.50 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 | 10.5 | 11.0 | 11.5 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |



21.6.2 UVA Clearing Phase Protocols (Skin Types IV - VI)

Number of Treatments = 25

UVA, Skin Type IV, 11011

| - | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| PRIMARY DOSE (JOULES) | 3.5 | 3.5 | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 | 7.5 | 7.5 | 8.5 | 8.5 | 9.5 | 9.5 | 10.5 | 10.5 | 11.5 | 11.5 | 12.5 | 12.5 | 13.5 | 13.5 | 14.0 | 14.0 | 14.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |

UVA, Skin Type IV, 3/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |

UVA, Skin Type IV, 2/week

| | - | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| PRIMARY DOSE (JOULES) | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |

UVA, Skin Type V, 11011

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 | 7.5 | 7.5 | 8.5 | 8.5 | 9.5 | 9.5 | 10.5 | 10.5 | 11.5 | 11.5 | 12.5 | 12.5 | 13.5 | 13.5 | 14.5 | 14.5 | 15.5 | 15.5 | 16.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |

UVA, Skin Type V, 3/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |

UVA, Skin Type V, 2/week

| | | | | | | | | | | | | | | | | | | | | | | | | _ | |
|----------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| PRIMARY DOSE (JOULES) | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| SECONDARY DOSE (JOULES) | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 | 14.0 |

UVA, Skin Type VI, 11011

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 5.5 | 5.5 | 7.0 | 7.0 | 8.5 | 8.5 | 10.0 | 10.0 | 11.5 | 11.5 | 13.0 | 13.0 | 14.5 | 14.5 | 16.0 | 16.0 | 17.5 | 17.5 | 19.0 | 19.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| SECONDARY DOSE (JOULES) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |

UVA, Skin Type VI, 3/week

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| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 6.5 | 7.5 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 14.5 | 15.5 | 16.5 | 17.5 | 18.5 | 19.5 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| SECONDARY DOSE (JOULES) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |

UVA, Skin Type VI, 2/week

| TREATMENT # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|----------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| PRIMARY DOSE (JOULES) | 6.5 | 8.0 | 9.5 | 11.0 | 12.5 | 14.0 | 15.5 | 17.0 | 18.5 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| SECONDARY DOSE (JOULES) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 | 18.0 | 19.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |

21.6.3 UVA Maintenance Phase Protocols: 1/week, 3/month, 2/month, 1/month

Maximum Number of Treatments = 4

ALL SKIN TYPES: Dose should be held steady at last clearance phase dose.

21.7 Narrow Band UVB Protocol Values

21.7.1 LO Dose Narrow Band UVB Clearing Phase Protocols: 11011, 3/week, 2/week

Maximum Number of Treatments = 29

| TREATMENT # | % of MED | | | | | | | | | | | | | OV | % INC ER PRE | REASE VIOUS D | OSE | | | | | | | | | | | | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| PRIMARY DOSE (MILLIJOULES) | 30 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | % | OF PRIN | /ARY D | OSE | | | | | | | | | | | | |
| SECONDARY DOSE (MILLIJOULES) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

ALL SKIN TYPES, ALL SCHEDULES

21.7.2 LO Dose Narrow Band UVB Maintenance Phase Protocols: 1/WEEK

Maximum Number of Treatments = 4

ALL SKIN TYPES: Dose should be held steady at last clearance phase dose

The following charts provide a graphic example of the LO Dose Narrow Band UVB clearing phase protocols. Doses corresponding to several MED values from each protocol are calculated and plotted.





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21.7.3 HI Dose Narrow Band UVB Clearing Phase Protocols: 1101, 3/week, 2/week

Maximum Number of Treatments = 29

| | | | | | | | | | | NI | | <u> 310</u> | וו צ. | ALL | . 30 | 'ULI | | LO | | | | | | | | | | | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|-------------|-------|-----|-------------------|-------------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| TREATMENT # | % of MED | | | | | | | | | | | | | OV | % INC 'ER PRE' | CREASE VIOUS E | OSE | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| PRIMARY DOSE (MILLIJOULES) | 70 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | % | OF PRIM | MARY D | OSE | | | | | | | | | | | | |
| SECONDARY DOSE (MILLIJOULES) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

SKIN TYPES I & II, ALL SCHEDULES

SKIN TYPES III & IV, ALL SCHEDULES

| TREATMENT # | % of MED | | | | | | | | | | | | | OV | % INC ER PRE | CREASE VIOUS [| DOSE | | | | | | | | | | | | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|-------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| PRIMARY DOSE (MILLIJOULES) | 70 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 0 |
| | | | | | | | | | | | | | | % | OF PRI | MARY D | OSE | | | | | | | | | | | | |
| SECONDARY DOSE (MILLIJOULES) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

SKIN TYPES V & VI, ALL SCHEDULES

| TREATMENT # | % of MED | | | | | | | | | | | | | OV | % INC ER PRE | CREASE VIOUS [| DOSE | | | | | | | | | | | | |
|------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------------|-------------------|------|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| PRIMARY DOSE (MILLIJOULES) | 70 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| | | | | | | | | | | | | | | % | OF PRI | MARY D | OSE | | | | | | | | | | | | |
| SECONDARY DOSE (MILLIJOULES) | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

21.7.4 HI Dose Narrow Band UVB Maintenance Phase Protocols: 1/WEEK

Maximum Number of Treatments = 4

21.7.5 ALL SKIN TYPES:

Dose should be held steady at last clearance phase dose

| | MED Ranges |
|-----------|--|
| Skin Type | Narrowband MED Range (mJ/cm ²) |
| | 50-300 |
| II | 100-400 |
| | 150-500 |
| IV | 200-600 |
| V | 250-700 |
| VI | 300-800 |

The following charts provide a graphic example of the HI Dose Narrow Band UVB clearing phase protocols. Doses corresponding to several MED values from each protocol are calculated and plotted.

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| MED 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 600 420 483 555 638 733 842 968 113 1279 1470 1690 1943 2215 2502 310 321 3264 402 402 425 535 630 738 842 968 113 1279 1470 1690 1943 2215 2502 310 302 326 3680 3794 3983 4142 4266 435 400 201 221 272 245 485 516 517 163 1664 1664 1649 2082 2275 247 247 248 3033 3183 3113 3113 3113 3113 3113 3113 3113 3113 3113 3113 3113 3113 3113 3123 3216 3203 3168 | 5 26 27 28 5 5287 5287 5287 1 4394 4394 4394 3514 3514 3514 3514 8 2613 2613 2613 0 1737 1737 1737 0 1292 1292 1292 | 29 5287 4394 3514 2613 1737 1292 |
|--|---|--|
| bul 420 483 555 536 733 842 956 113 1273 1470 1580 1943 2215 2502 2810 3421 3728 4026 4307 4565 473 4984 513 523 500 350 402 462 531 610 701 806 926 1064 1223 1406 1616 1684 2081 230 2566 2844 309 3346 3580 3794 3983 4142 4266 435 400 280 322 370 425 488 561 645 741 852 979 1125 1293 1474 1665 1864 2089 2275 2479 2677 2664 3035 3186 3313 3412 4266 435 400 241 277 318 365 419 481 553 635 730 839 964 1098 1240 1388 1540 1693 1242 1225 2371 2465 2538 2588 200 140 161 185 212 243 279 320 366 423 486 558 641 730 824 922 1023 1125 1226 1324 1416 1500 1575 1638 1687 1724 150 105 120 138 158 181 208 239 274 315 362 416 478 544 614 687 762 838 913 986 1055 1118 1173 1219 1255 1284 440 440 440 440 440 440 440 440 440 440 | 5 5287 5287 5287 1 4394 4394 4394 3 5514 3514 3514 8 2613 2613 2613 2613 0 1737 1737 1737 0 1292 1292 1292 | 528 439 351 2613 1737 1292 |
| 400 280 322 370 425 488 561 645 741 652 979 1125 1293 1474 1666 1664 2069 2275 2277 2664 3035 3186 3113 3112 3481 300 210 241 277 318 356 730 839 964 1081 1240 1388 1540 1684 1693 2132 2259 2371 2465 2588 258 | 0 3514 3514 3514 8 2613 2613 2613 0 1737 1737 1737 0 1292 1292 1292 | 351 2613 1737 1292 |
| 200 140 161 185 212 243 279 320 368 423 486 558 641 730 824 922 1023 1125 1226 1324 1416 1500 1575 1638 1687 1721 150 105 120 138 158 181 208 239 274 315 362 416 478 544 614 687 762 838 913 986 1055 1118 1173 1219 1255 1284 160 120 138 158 181 208 239 274 315 362 416 478 544 614 687 762 838 913 986 1055 1118 1173 1219 1255 1284 1500 1500 1500 1500 1500 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 1400 | 0 1737 1737 1737 D 1292 1292 1292 | 1737 1292 |
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22.0 Edit Protocols

22.1 Global Protocols

Only authorized users can edit global protocols. Editing global protocols will only affect patients that are setup in the system and assigned the edited protocol after it has been edited. Editing global protocols will not affect patient treatment schedules that are already setup in the system at the time the protocol is edited.

Note: Global protocols apply to all instances connected to the SmartTouch[™] Multiple Machine system.

- 1. Logon to the SmartTouch[™] control system.
- 2. From the Main Menu, tap the **Edit Global Protocols** button once. The Global Protocol Setup selection screen will appear (See Figure 23).
- 3. Determine which protocol shall be edited and select the applicable protocol attribute by tapping the associated circle in the **Skin Type**, **Treatment Type**, and **Schedule** boxes once.



Figure 23 Global Protocol Setup Selection Screen

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4. To proceed to the Global Protocol Setup edit screen (See Figure 24), tap the **OK** button once, or to cancel and exit to the Main Menu screen, tap the **Cancel** button once.

| Smc | artTou | ch | | | | | | | | Welcome Admin |
|------------|--------------|-------|------------|-----------|-------------|-----------------------|-----------|-----------|-----------|------------------------------|
| Global Pro | tocol Set | up | | | | | | | | Home / Global Protocol Setup |
| | | Skii | n Type - I | ; Machine | e Type - I | ⁻ ull Body | ; Treatme | ent Type | - Hi UVB; | Schedule - 3/week; |
| Primary Do | se | | | | | | | | | |
| 70 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| % of MED | | | | % Incre | ease from p | evious treati | ment | | | |
| 0 | Deere | | | | | | | | | |
| Secondary | Dose | 50 | | 50 | | 50 | 50 | | 50 | |
| 1 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 9 | 10 | |
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| R | eset To Ori | ginal | | -MIL | | | Ctrl | Other Cha | rs | Space |

Figure 24 Global Protocol Setup Edit Screen

Warning: Changing protocols can be dangerous and can result in treatments that will seriously injure patients. Be sure to read the Understanding How Protocols Work section of this manual before making any changes to protocols. Always review the entire protocol after changes have been made and before it is implemented for use. Only highly skilled and trained personnel should perform this process.

- 5. Tap the appropriate field twice to highlight and replace all data in the field or touch the stylus to the specific area of data in the field to be changed, hold the stylus against the display and slide it over the data to be replaced. In either case, the data highlighted in blue will be replaced with new data as it is typed.
- 6. Using the keyboard at the bottom of the display, type the new data.
- 7. To scroll forward and backward in the protocol schedule, tap the <<< or >>> buttons.
- 8. To undo all editing without saving changes and remain in the edit mode, tap the **Reset to Original** button once. This will reset the protocol to the current global protocol.
- 9. When all editing is complete and reviewed, tap the **Save Protocol** button once to save the data.

To exit to the Main Menu screen, tap the **Exit** button once.

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22.2 Patient Specific Protocols

Only authorized users can edit patient specific protocols. Editing patient specific protocols will only affect the schedule of the patient for which the change is made. Editing patient specific protocols will not affect treatment schedules of other patients.

- 1. Logon to the SmartTouch[™] control system.
- 2. From the Main Menu, select the **Edit Patient** button by tapping it once. The Select a Patient screen for the selected patient will appear (See Figure 16).
- 3. Follow the instructions in the Selecting a Patient section of this manual. Once the patient has been selected, return to these instructions, and continue with step 4 of these instructions.
- 4. Tap once on the View/Edit Schedule button once. While the data is obtained, the "Retrieving Schedule" message will be displayed. When the schedule is located, the message will disappear, and the applicable Patient Protocol Setup edit screen will be displayed (See Figure 24 & Figure 25).



Figure 25 Patient Protocol Setup Edit Screen (UVB)

Warning: Changing protocols can be dangerous and can result in treatments that will seriously injure patients. Be sure to read the Understanding How Protocols Work section of this manual before making any changes to protocols. Always review the entire protocol after changes have been made and before it is implemented for use. Only highly skilled and trained personnel should perform this process.

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- 5. Tap twice on the appropriate field to highlight and replace all data in the field, or touch the stylus to the specific area of data in the field to be changed, hold the stylus against the display and slide it over the data to be replaced. In either case, the data highlighted in blue will be replaced with new data as it is typed.
- 6. Using the keyboard at the bottom of the display, type the new data.
- 7. To scroll forward and backward in the protocol schedule, tap the <<< or >>> buttons.
- 8. To undo all editing without saving changes and remain in the edit mode, tap once on the **Reset to Protocol** button. This will reset the protocol to the current global protocol.
- 9. When all editing is complete and reviewed, tap once on the **Save Protocol** button to save the data.
- 10. To exit to the Main Menu screen, tap once on the **Exit** button. The Patient Setup screen (See Figure 15) will appear. Tap once on the **Exit** button.

23.0 System Settings

Only authorized users can view and edit the System Settings.

- 1. Logon to the SmartTouch[™] control system.
- 2. From the Main Menu, select the **System Settings** button by tapping on it once. The System Settings screen will appear which includes **Treatment Variables**, **Control Panel** and **Lamp Information** buttons.
- 3. Select the desired button by tapping it once.
- 4. View or edit the settings by following the applicable instructions in this section of the manual.

23.1 Treatment Variables

The settings contained in the Treatment Variables screen (See Figure 26) are described below.

- Minimum time between treatments sets the number of hours that must elapse between treatments before subsequent treatments can be delivered without displaying a warning message.
- Maximum time between treatments (Authorization not required) sets the maximum number of hours that can elapse between treatments before a warning message is displayed.
- Maximum time between treatments (Authorization IS required) sets the maximum number of hours that can elapse between treatments before a warning message is displayed that requires authorization (See Warning Rules and Authorities section in this manual).

- Idle time before logging out sets the maximum number of minutes that can elapse without any lamp or treatment activity or screen taps before automatic system logout and suspend occurs.
- **Days between calibration** sets the number of calendar days that can elapse between calibrations before the system displays a message indicating that the calibration is due (See the accompanying Service & Installation Manual for Calibration information).
- Lamp hours between calibrations sets the number of lamp hours that can accumulate between calibrations before since the last calibration before the system displays a message indicating that the calibration is due.

| Treatment Variables | | Home / System Settings / Treatment Variables |
|--|-----------|---|
| Minimum time between treatments Maximum time between treatments | 18 hours | Idle time before logging out 20 minutes |
| (Authorization not required) Maximum time between treatments (Authorization is required) | 336 hours | Lamp hours between calibration 100 hours |
| | | Sound Volume (Omnitek PT Server) % (0-99) |
| | | Show Real-time Power During Treatment |
| | | |
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| | | 1 2 3 4 5 6 7 8 9 0 - = Back Tab q w e r 1 y u i o p []] |
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| Update Exit | | Ctrl Other Chars Space |

Figure 26 Treatment Variables Screen

23.2 Lamp Information

The settings contained in the Lamp Information screen (See Figure 27) are described below. <u>Note</u>: Lamp information is device specific, and the Dashboard must be used to select device you wish to view.

- Hours since last re-lamp displays the number of hours that the current lamps have been in operation. The field for the corresponding lamp type is reset to zero when the **Re-lamp UVA** or **Re-lamp UVB** button is pressed. (See the accompanying Service & Installation manual for lamp replacement [re-lamp] information).
- Last re-lamp date displays the date that the Re-lamp UVA or Re-lamp UVB button was last pressed.

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- Hours since last calibration displays the number of hours that the current lamps have been in operation since the machine was last calibrated. This field is automatically reset upon completion of each calibration process.
- Last calibration date displays the date that the system was last calibrated. This field is automatically updated upon completion of each calibration process.
- **Total Lamp Hours** displays the total number of hours that the device has operated. This field cannot be reset.
- Last power output displays the last power output taken from the internal sensors before the lamps shut off.

| SmartTouch | | | | | | Welcome Adr | min |
|------------------------------|-----|---|-----|----------------------------------|---------------|-----------------------------|-------|
| Lamp Information | | | | | Home / Sys | tem Settings / Lamp Informa | ation |
| UVA Lamps | | | | | | | |
| Hours since last re-lamp | hrs | 0 | min | Last Re-lamp date 1/1/1900 | _ | Relamp UVA | |
| Hours since last calibration | hrs | 0 | min | Last calibration date 10/26/2020 | | | |
| Total Lamp Hours | hrs | 0 | min | Last power output 12 mW | | Calibrate UVA | |
| | | | | | | | |
| UVB Lamps | | | | | | | |
| Hours since last re-lamp | hrs | 0 | min | Last Re-lamp date 1/1/1900 | | Relamp UVB | |
| Hours since last calibration | hrs | 0 | min | Last calibration date | | | |
| Total Lamp Hours | hrs | 0 | min | Last power output | — [@ | Calibrate UVB | |
| | | | | | | | |
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| Exit | | | | Ctrl Other Chars | Spa | ce | |

Figure 27 Lamp Information Screen



24.0 Edit User Data

Warning: Entering improper or erroneous data in the New User Setup process could result in serious patient injury. The data entered when setting up a patient will determine which preprogrammed protocol is selected for the patient treatments, and therefore directly impacts the patient's treatment dose. Only highly skilled and trained personnel should perform this process.

Only authorized users can edit patient data.

- 1. Logon to the SmartTouch[™] control system.
- 2. From the Main Menu, select the **User Setup** button by tapping it once. The Select a Username screen will appear which includes a list of all established system users. (See Figure 28).
- 3. Select the user profile to be edited by tapping the Username once. The User Setup screen will appear (See Figure 14).

| Select User Select a Username Image: Select a Username Image: Select a Username Image: Add min TestLast1 TestFirst1 TestUser1 Image: Select a Username Image: Select a Username Doe Jon User User Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Select a Username Image: Se | Sma | rtTouch | | | | Welcome Admin |
|---|-------------|-------------------|------------|-----------------|------------|--------------------|
| Select a Username Last Name First Name User Name Admin Admin Admin TestLast1 TestFirst1 TestUser1 Doe Jon User Select a Username Add New User Example a constraint of the set of the se | Select User | 6 | | | | Home / Select User |
| Last Name First Name User Name Admin Admin TestLast1 TestFirst1 Doe Jon User User Add New User Cancel | | Select a Username | | | | |
| Image: state stat | | Last Name | First Name | User Name | | |
| TestLast1 TestFirst1 TestUser1 Doe Jon User Image: Cancel Image: Cancel | | | | Admin | | |
| Doe Jon User Add New User Cancel | | TestLast1 | TestFirst1 | TestUser1 | | |
| Add New User | | Doe | Jon | User | | |
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| Figure 28 Select a Username Screen | | | Figure 28 | Select a Lisern | ame Screen | |



- 4. From the User Setup screen, edit the user's profile as desired.
- 5. To save changes, tap the **Save Changes** button once. The "Saving user data" message will appear while the data is being saved and then the "User data saved" message will appear momentarily.
- 6. Tap the **Exit** button once to exit to the Main Menu.

25.0 Generating Reports

- 1. Logon to the SmartTouch™ Software.
- 2. From the Main Menu, tap the **Reports** button once. The Reports Menu will appear.

25.1 Generating an Individual Report

- 1. From the Reports Menu, tap the **Individual Report** button once. The Individual Report screen will appear.
- On this screen select either the Treatment History or Last Treatment check box. Treatment History Report will show information for all past treatments. Last Treatment Report will provide information on only the most recent treatment.
- 3. In the **Patient ID** box, enter the individuals PIN number.
- 4. Tap the **Generate Report** button once to create the individual report.

25.2 Generating a Daily Summary Report

- 1. From the Reports Menu, tap the **Daily Summary Report** button once. The Daily Summary Report screen will appear.
- 2. On this screen select either the **ForToday** or **ForTheDate** checkbox. **ForToday** Reports will show information for all the current day's treatments. **ForTheDate** Reports will provide information for all treatments given on the date selected on the drop-down calendar to the right of this checkbox.
- 3. Tap the Generate Report button once to create the desired Daily Summary Report.

25.3 Using the Report Wizard

- 1. From the Reports Menu, tap the **Report Wizard** button once. The Report Wizard screen will appear.
- On this screen decide on the categories to sort by and then select the corresponding ascending or descending checkbox. For example, selecting the **Ascending** checkbox for **Number of Treatments** will result in all patients being listed with the patient having the fewest number of treatments first and the patient having the greatest number of treatments last.

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- 3. If desired the database can be sorted using up to four different categories. A minimum of one category must be selected in order to generate the report.
- 4. Tap the **Generate Report** button once to create the desired custom report.

25.4 Generating a Device Data Report

1. From the Reports Menu, tap the **Device Data Report** button once. The Device Data Report will be generated and displayed.

25.5 Generating a Safety Limits History Report

- 1. From the Reports Menu, tap the **Safety Limits History Report** button once. The Safety Limits History Report screen will appear.
- 2. On this screen select the **Start Date** and **End Date** using the drop-down calendars.
- 3. Select the UVB Lamps or UVA lamps radio button.
- 4. Tap the **Generate Report** button once to create the Safety Limits History Report.

26.0 Backup/Restoration of Database

26.1 Backup the Database to Removable USB Drive (Recommended Daily)

- 1. Exit the SmartTouch[™] Software so that you have the Windows Desktop (Start Menu) on the screen.
- Insert the Removable USB drive into one of the USB ports
 a. On PC models these ports are on the front of the desktop PC
- 3. Click on 'Start' (bottom left) to bring up the Start Menu.
- 4. Drag the mouse to 'Programs' and when the next window appears click on 'Backup Restore' to initiate the Backup/Restore Utility
- 5. Verify that the Backup Database button (Top) is selected and then click "Start' (bottom)
- 6. Once finished message above green status bar will read 'Database Backup Complete' ** In the event an Error message appears reading "Cannot open backup device..." a file named 'BackUp' must be created on the removable USB device, and then repeat above steps after exiting the Backup/Restore Utility.
- 7. Click the Exit button to close the Backup/Restore Utility.
- 8. Remove the USB drive from the USB port.

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26.2 Backup the Database to D:/ Partition of Hard Drive (Optional)

- 1. Click on 'Start' (bottom left) to bring up the Start Menu.
- 2. Move the mouse to 'Programs' and when the next window appears click on 'Backup STUV' and the database will be backed up to the appropriate folder on the D:/ drive.

26.3 Restoring the Database from the Removable USB Drive

In the event your patient database is corrupted or lost, the Backup/Restore Utility can be used to restore the database using the backup file 'STUV.bak' located on the Removable USB Drive. Completing this restoration will result in the database being returned to the way it was at the time of the most recent Backup described in the *Backup the Database to Removable USB Drive (Recommended Daily)* section of this manual.

- 1. Insert the Removable USB drive into one of the USB ports
 - a. On PC models these ports are on the front of the desktop PC
- 2. Exit the SmartTouch[™] Software so that you have the Windows Desktop (Start Menu) on the screen.
- 3. Click on 'Start' (bottom left) to bring up the Start Menu.
- 4. Move the mouse to 'Programs' and when the next window appears click on 'Backup Restore' to initiate the Backup/Restore Utility
- 5. Verify that the Restore Database button (Top) is selected and then click "Start' (bottom)
- 6. Once finished, the message above green status bar will read 'Database restoration complete'

** In the event an Error message appears reading "Cannot open backup device..." then the database has not been previously backed up to the Removable USB Device. See note at end of this section.

- 7. Click the Exit button to close the Backup/Restore Utility.
- 8. Remove the USB drive from the USB port.

Note: If a backup to the removable USB device has not been recently performed, or if such backup has never been performed, please contact the Phothera Service department at 1-216-831-0600. Database restoration may still be possible from backup files automatically stored on the computer.

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27.0 Care of the Unit

27.1 Recommended Maintenance Schedule

Table 5 Recommended Maintenance Schedule

| Item / Action | Frequency |
|--|---|
| Clean all patient contact surfaces | Between each treatment |
| Dusting of the unit and lamps | Once a month |
| Fully clean all internal reflectors, lamps and protective acrylic | Annually (behind the lamps) |
| Unit calibration | Every 100 hours or once a year (whichever occurs first) and when lamps are replaced. (Meters can be rented or purchased through Phothera) |
| Replace lamps | *UVB – Approximately every 300 hours of use. *UVA – Approximately every 500 hours of use. |

* Lamp life will vary significantly depending on average treatment time and other environmental conditions.

27.2 Cleaning/Disinfection

27.2.1 General Cleaning

For general use, use a clean non-abrasive cloth, not paper towels, and a mild cleaning solution such as Dawn Liquid Dishwashing Soap to gently wipe down the exterior of the device.

27.2.2 Low-Level Disinfection

To reduce micro-organisms on the patient-contacting surfaces, disinfect these surfaces between uses of the device, including when the same patient has the device for use. For disinfection while the same patient uses the device, we have tested several cleaners that do not degrade the Acrylic and can be seen in Table 6 Tested Cleaners.

| Table 6 Tested Cleaners | | | |
|-------------------------|--|--|--|
| Cleaner/Solution | Contact Time | | |
| Monk brand Wipes | Follow the contact time instructions provided with the Monk brand Wipes | | |
| 70% Isopropyl Alcohol | 3 min | | |

1. Thoroughly wipe down the surfaces and allow contact time listed in Table 6 Tested Cleaners.

- 2. Allow to air dry and inspect for visible contaminants.
- 3. If contaminants remain repeat until no visible containments remain repeat steps 1 and 2.

27.2.3 High-Level Disinfection

Follow a high-level disinfection protocol between the use of the device on different patients. Use a high-level disinfectant, such as Steris Corporation's Resert XL-HLD, and follow the manufactures guidelines. See also "FDA-Cleared Sterilants and High Level Disinfectants with General Claims for Processing Reusable Medical and Dental Devices" available at: https://www.fda.gov/medical-devices/reprocessing-reusable-medical-devices-informationmanufacturers/fda-cleared-sterilants-and-high-level-disinfectants-general-claims-processingreusable-medical-and.

27.3 Lamp Removal and Replacement

Lamps may need to be replaced due to burnout or because their energy output has decreased to a point that your treatments may have become excessively long.

DO NOT REPLACE LAMPS INDIVIDUALLY. ALL LAMPS SHOULD BE REPLACED AT THE SAME TIME TO AVOID UNEVEN TREATMENTS OR ERYTHEMA. PLEASE CONTACT THE PHOTHERA SERVICE DEPARTMENT PRIOR TO REPLACING LAMPS TO OBTAIN IMPORTANT INFORMATION ON HOW THE OUTPUT OF THE UNIT WILL BE AFFECTED BY THE CHANGE.

Because of differences between brands, always replace lamps with the same brand as originally installed. Consult the Lamp Specification Guide on page 5 for replacement lamp guidance and contact the Phothera service department for a lamp replacement quote. They can be reached by dialing 1-216-831-0600 or via email at service@phothera.com.

27.3.1 How to Change Lamps

- 1. First, unplug the device then disconnect the hood cord from the base, and remove the hood. Set it aside.
- 2. Turning to the base, use a philips head screwdriver to remove the screw, located at the back of the unit which holds the acrylic shield in place.
- 3. Slide the acrylic shield forward to remove it from the base.
- 4. Two clear, plastic clasps hold each lamp in position. To release the lamps from the clasp, place both thumbs on the top of the clasp and use your index fingers to pull the sides of the clasp outward until it releases, and the clasp can be removed.
- 5. There is a button on top of each lamp-holder that, when pushed, allows removal of the lamp from its lamp-holder. Press the button with one hand and use the other to carefully lift the lamp out of its lamp-holder.
- 6. To replace the lamps in their lamp-holders, press them straight down. A distinctive snapping sound will be heard which indicates that the lamps are properly seated.

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- To replace the hood lamps simply turn the hood upside down, remove the acrylic shield by removing the 4 screws holding it in place, exposing the hood lamps. Remove the Repeat steps 5-8.
- 8. Once reassembled, reset the lamp hours to zero.

27.3.2 Resetting Lamp Hours

When changing lamps, it is important to reset the lamp age to zero so the new lamp's operating hours can be tracked. Please contact the Phothera service department for instructions on resetting the device's lamp hours.

28.0 Clinical Benefit

UV phototherapy normally consists of two distinct phases: Clearing and Maintenance. The clearing phase increases exposure to the light to the levels required to clear the skin, but over a long enough period to minimize discomfort to the patient. The maintenance phase is employed to extend the benefits of the clearing phase treatment, while limiting total exposure. During the maintenance phase, treatments are normally continued at the last level reached during the clearing phase.

Typically, treatments are very brief and occur about three times a week. Results vary, but psoriasis symptoms commonly begin to improve in as little as 6 -8 treatments; vitiligo usually begins to re-pigment within about 8 weeks. Phototherapy is safe for most patients, including those who are pregnant, elderly or immuno-compromised.

29.0 Environmental Specifications

| Table 7 Electromagnetic Emissions | | |
|-----------------------------------|------------|--|
| Emissions Test | Conformity | EMC Environment Guide |
| | | Test unit only radiates RE energy for internal use i |

The Phothera HF should be used in an electromagnetic environment as described below.

| Emissions Test | Conformity | EMC Environment Guide |
|---|------------|--|
| RF Emission Following CISPR 11 (EN 55011) | Group 1 | Test unit only radiates RF energy for internal use in powering lamps, and it seems unlikely that nearby medical devices would be affected. |
| RF Emission Following CISPR 11 (EN 55011) | Class B | The Phothera HF device is suitable for healthcare environment operation in hospitals and clinics |
| Limits for Harmonic Current Emissions Following IEC 61000-3- 2 | Class A | The Phothera HF device is suitable for healthcare environment operation in hospitals and clinics |

| Emissions Test | Conformity | EMC Environment Guide |
|--|------------|---|
| Limits of Voltage Changes, Voltage Fluctuations, and Flicker Following IEC 61000-3-3 | Compliant | The Phothera HF device is suitable for healthcare environment operation in hospitals and clinic |

Emissions Test IEC 60601 Test Level **Actual Level** +/-8kV (conductive +/-8kV (conductive surfaces, coupling planes) surfaces, coupling planes) Electrostatic discharge immunity test following IEC +/- 2kV, +/- 4kV, +/- 8kV, +/- 2kV, +/- 4kV, +/- 8kV, 61000-4-2 and +/- 15kV (nonand +/- 15kV (nonconductive surfaces) conductive surfaces) Radiated, radio-frequency, electromagnetic field 80 MHz to 2.7GHz @ 10.0 80 MHz to 2.7GHz @ 10.0 immunity test following IEC V/m V/m 61000-4-3 Electrical fast transient/burst immunity +/-2kV +/- 2kV test following IEC 61000-4-4 Surge immunity test +/- 0.5 kV, +/- 1.0 kV, +/- 2kV +/- 0.5 kV, +/- 1.0 kV, +/- 2kV following IEC 61000-4-5 0.15 MHz to 80 MHz @ 3.0 0.15 MHz to 80 MHz @ 3.0 Vrms Vrms 6.765 MHz to 6.795 MHz 6.765 MHz to 6.795 MHz @6.0 Vrms @6.0 Vrms Conducted Immunity test 13.553 MHz to 13.567 MHz 13.553 MHz to 13.567 MHz following IEC 61000-4-6 @ 6.0 Vrms @ 6.0 Vrms 26.057 MHz to 27.283 MHz 26.057 MHz to 27.283 MHz @ 6.0 Vrms @ 6.0 Vrms 40.66 MHz to 40.70 MHz @ 40.66 MHz to 40.70 MHz @ 6.0 Vrms 6.0 Vrms Power frequency magnetic field immunity test 50 Hz, 30 A/m 50 Hz, 30 A/m

Table 8 Electromagnetic Immunity

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following IEC 61000-4-8

| Emissions Test | IEC 60601 Test Level | Actual Level | |
|---|--|--|--|
| Voltage dips and interruptions immunity test following IEC 61000-4-11 | 30% Reduction for 500 mS at 0 degrees, 100% Interruption for 10 mS at 0, 45, 90, 135, 180, 225, 270,315 degrees, 100% Interruption at 5000 mS at 0 degrees | 30% Reduction for 500 mS at 0 degrees, 100% Interruption for 10 mS at 0, 45, 90, 135, 180, 225, 270,315 degrees, 100% Interruption at 5000 mS at 0 degrees | |

Table 9 Electromagnetic Immunity

| The device is intended for use in the electromagnetic environment specified below. The | | | | |
|---|-------------------------|---------------------|---|--|
| customer or the user of the device should assure that it is used in such an environment. | | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance | |
| Conducted RF IEC 61000-4-63 Vrms 150 kHz to 80 MHz3 VrmsRadiated RF IEC 61000-4-33 V/m3 V/m | | 3 Vrms 3 V/m | Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $d = 1.2\sqrt{P}$ $d = 1.2\sqrt{P}$ 80 MHZ to 800 MHz $d = 2.3\sqrt{P}$ 800 MHz to 2.5 GHz where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the | |
| | | | recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in | |
| | | | each frequency range. ^a Interference may occur in the vicinity of equipment marked with the following symbol: | |
| NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. | | | | |
| NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected | | | | |
| by absorption and reflection from structures, objects and people | | | | |

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| The device is intended for use in the electromagnetic environment specified below. The | | | | | |
|--|--|---------------------|---|--|--|
| customer or the user of the device should assure that it is used in such an environment. | | | | | |
| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance | | |
| a. Field strength | from fixed tran | smitters, such as | s base stations for radio (cellular / cordless) | | |
| telephones ar | telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV | | | | |
| broadcast car | broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic | | | | |
| environment | environment due to fixed RF transmitters, an electromagnetic site survey should be | | | | |
| considered. If | considered. If the measured field strength in the location in which the device is used exceeds | | | | |
| the applicable | the applicable RF compliance level above, the device should be observed to verify normal | | | | |
| operation. If a | operation. If abnormal performance is observed, additional measures may be necessary, such | | | | |
| as re-orienting | as re-orienting or relocating the device. Over the frequency range 150 kHz to 80 MHz, field | | | | |
| strengths sho | uld be less thai | n 3V/m | | | |

30.0 Warranty

30.1 Limited Warranty Policy

This Limited Warranty is provided to the original purchaser (the "Purchaser") of the Phothera device (the "Equipment"). Phothera warrants Equipment to conform with the Equipment specifications and be free from defects in material and workmanship during the device Warranty Period. No warranty is made as to useful lamp life or as to reduction in ultraviolet output due to any cause. PHOTHERA MAKES NO OTHER WARRANTIES OF ANY KIND WHATSOEVER TO PURCHASER OR ANY THIRD PARTIES WITH RESPECT TO THE EQUIPMENT AND HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

| Product | Warranty Period |
|--------------------------|-----------------|
| New Equipment | 1 Year |
| Remanufactured Equipment | 90 Days |
| Lamps | 90 Days |

| T | able | 10 | Limited | Warrantv | Policv |
|---|------|----|---------|----------|--------|
| • | | | | mananty | , |

30.2 Warranty Coverage

This Limited Warranty applies only to Equipment or components found to be defective due to materials and workmanship. This Limited Warranty does not apply when Equipment is purchased for the purposes of renting commercially to customers for home use. This Warranty does not apply to any Equipment which has been used, repaired or altered outside the factory in any way so as to affect the design, or operated in any way other than in accordance with our operating instructions. The Limited Warranty does not apply to Equipment failure or damage caused by

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shipping or customer abuse, misuse, or accident, incorrect customer installation, improper electrical service, lack of proper maintenance, and Acts of God. This Limited Warranty does not extend to repairs made necessary by use of parts or accessories not recommended by the manufacturer. Phothera shall not be responsible for any indirect, incidental, special, punitive, or consequential damages of Purchaser. Phothera does not provide end support for Microsoft Windows software installed on PCs that are part of a Phothera phototherapy system. PURCHASER'S SOLE REMEDY UNDER THIS LIMITED WARRANTY IS REPAIR OR REPELACMENT OF THE EQUIPMENT.

30.3 Customer Responsibility

In the event that warranty service is requested, the Purchaser must reasonably cooperate with Phothera to verify the warranty claim of the Purchaser, including conducting minor diagnostic work. Failure to participate in diagnostic work may result in being charged for on-site service calls. The Purchaser must allow Phothera, at Phothera's option, to inspect the Equipment or component parts on request.

30.4 Warranty Service

During the warranty period, Phothera will, at Phothera's option, repair or replace any Equipment or components that appear to have been defective in material or workmanship, with new or remanufactured materials. Phothera may require the return of merchandise claimed to be defective for its examination and shall be the sole judge as to whether material is in fact defective under the terms of this Limited Warranty. In such situations, Phothera will cover freight expenses in the continental USA to ship products covered under warranty both to and from Phothera's servicing center if the product fails during the first three months. If the product fails after three months during the warranty period, the customer is responsible for in-bound freight charges while Phothera pays freight charges back to the Purchaser. All Equipment ships ground unless the Purchaser covers costs for expedited shipping. Phothera is not responsible for any delays occurring during transport of the Equipment.

During the term of the Limited Warranty, Phothera will, at Phothera's option, arrange for a qualified service technician to repair or replace any defective systems or components as covered in accordance with the terms and conditions of this Limited Warranty. It will be at Phothera's sole discretion whether subcontractors or Phothera employed technicians will perform the required warranty service work. However, this Limited Warranty will be declared null and void if non-qualified technicians perform any repair or maintenance on the Equipment unless prior written authorization has been obtained from Phothera. Even with Phothera's authorization, Phothera shall not be responsible or liable for any such work (in or out of warranty). Phothera reserves the right to bill for labor, expenses, and services for requested "warranty" service trips which result in work not covered by this Limited Warranty. This may include, but is not limited to, a tripped circuit breaker, an unplugged machine, or a blown fuse.

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30.5 Disposal

Please visit <u>www.Phothera.com</u> and search our FAQ section for disposal instructions for the unit and/or all accessories.

30.6 Other Services

Extended warranties are available and may be purchased from Phothera's aftermarket sales department. In the event that this Limited Warranty conflicts with other warranties included in Phothera's Equipment manual, the terms and conditions of this Limited Warranty shall prevail.

30.7 Contact Information

Phone:

Fax: E-Mail: Website:



1-216-831-0600 *Press 1 for Daavlin 1-419-636-1739 service@phothera.com www.phothera.com Daavlin Distributing Company 205 W. Bement Street PO Box 626 Bryan, Ohio 43506 USA



