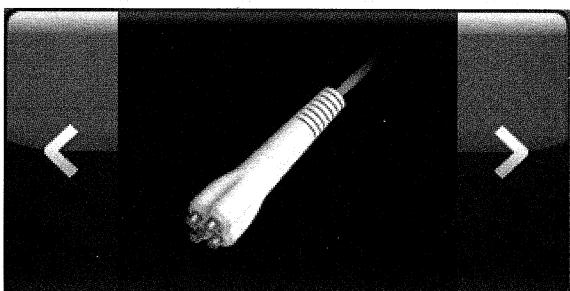


## 5.3. Selecting the Desired Applicator

### To select an applicator:

1. Verify that the Treatment screen appears, as shown in Figure 5-4.
2. Use the left/right arrows of the applicator selector, as shown in Figure 5-5, to select the desired applicator.



**Figure 5-5. Applicator Selector (with the Diamondpolar Applicator Selected)**

### Note

- Only applicators that are physically connected to the system can be selected.
- Upon selecting an applicator, the system displays the treatment screen for that applicator (showing the relevant parameters for the selected applicator).

## 5.4. Treatment Modes and Parameters

The system operates in the following treatment modes, according to the selected applicator:

- **(MP)<sup>2</sup> treatment mode**

Used with the following applicators:

- Diamondpolar applicator
- Octipolar applicator

- **Fractional RF treatment mode**

- Used with the Viva applicator

- **IPL treatment mode**

Used with the following applicators:

- SR515 applicator
- SR580 applicator
- HR650 applicator
- HR690 applicator
- HR650XL applicator
- HR690XL applicator
- ACDUAL applicator

For each treatment mode, the system displays the appropriate parameters in the Treatment screen.

### 5.4.1. $(MP)^2$ Treatment Mode

Figure 5-6 shows the  $(MP)^2$  mode Treatment screen.



**Figure 5-6. Elements of the  $(MP)^2$  Mode Treatment Screen (with the Octipolar Applicator Selected)**

Elements of the  $(MP)^2$  mode Treatment screen, as indicated by numbers in Figure 5-6, are described below.

1. **Applicator selector** – Indicates the currently-selected applicator and enables you to select any applicator that is connected to the system by pressing the Left/Right arrows.

-  Indicates that the selected applicator is Diamondpolar.
-  Indicates that the selected applicator is Octipolar.

2. **Preset button** – Displays the Preset screen (see section 5.6, on page 5-22).
3. **Tools button** – Displays the Tools screen (see Chapter 6).
4. **Numerical temperature indicator** – Displays the real-time numerical value of the patient's skin temperature, as measured by the applicator's built-in thermometer. Touching the indicator, toggles the temperature value between Celsius and Fahrenheit degrees.
5. **Graphical temperature indicator** – Displays the graph of the patient's skin temperature versus time. The graph background is divided into three areas:
  - Blue area, indicating that the skin temperature is less than the optimal value for effective treatment.
  - Yellow area, indicating that the skin temperature is optimal for effective treatment.
  - Red area, indicating that the skin temperature is too high.
6. **Energy button** – Resets the Energy setting.
7. **Energy controller** – Enables you to set the output energy for the connected applicator, as a percentage (0 - 100%) of the maximum  $(MP)^2$  energy output (150W for Octipolar, and 75W For Diamondpolar applicator), by pressing the  $-/+$  buttons.
8. **Treatment Time button** – Resets the Treatment Time to zero.
9. **Treatment Time controller** – Enables you to set the desired treatment time in minutes (0 - 30 minutes) by pressing the  $-/+$  buttons.
10. **Interval Timer button** – Resets the countdown timer (to the user-set Interval Time).

- 11. Interval Timer controller** – Enables you to set a timer, to assist in dividing the treatment time into smaller time segments, by pressing the **-/+** buttons.

This feature can be useful when a large treatment area is divided into smaller sections which are to be treated individually.

The Interval Timer starts counting down when the treatment is initiated and beeps when timer reaches zero. It then starts another countdown cycle. This sequence is repeated for as long as the treatment is in progress.

On the Interval Timer controller's display:

- The upper time indicator shows the user-set interval time (which can be set to 0 - 30 minutes).
- The lower time indicator shows the countdown timer (which starts from the user-set interval time and beeps when the timer reaches zero).

- 12. Stop button** – Ends the current treatment session.

Upon pressing the Stop button, the system displays the **End of Treatment** message and resets the treatment parameters.

- 13. Start button** – Starts a new treatment session or resumes a paused one.

Upon pressing the Start button:

- The Start button color changes to green.
- The selected applicator starts emitting (MP)<sup>2</sup> energy.
- The treatment timer countdown starts.

- 14. Pause button** – Pauses the treatment, without changing the selected treatment settings.

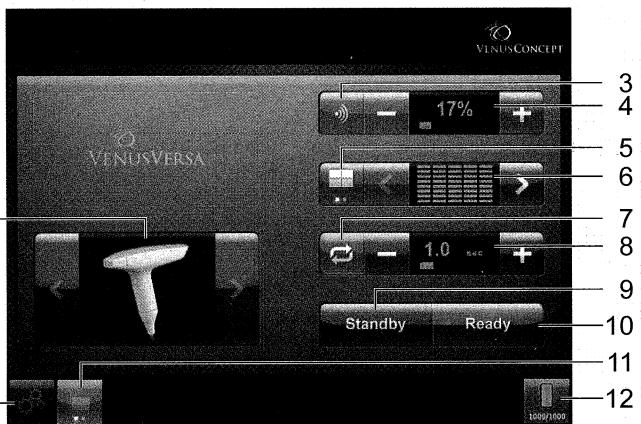
Upon pressing the Pause button:

- The Pause button color changes to red.
- The (MP)<sup>2</sup> energy emission stops.
- The treatment timer countdown stops.

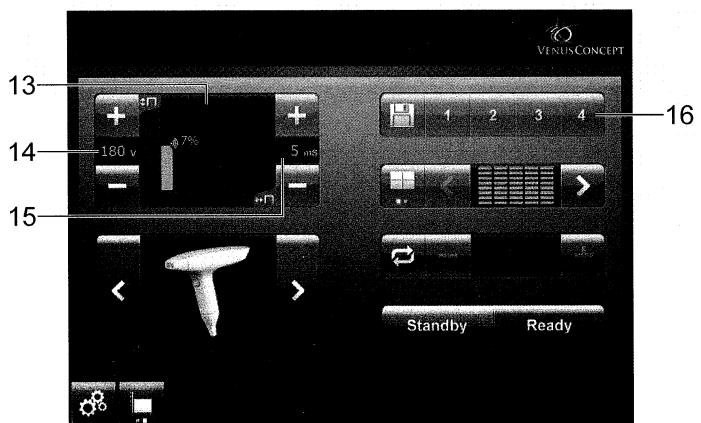
Pressing the Start button resumes the treatment.

## 5.4.2. Fractional RF Treatment Mode

Figure 5-7 and Figure 5-8 show the regular and advanced Treatment screens of the Fractional RF mode (respectively).

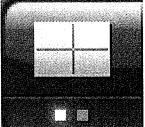
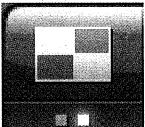


**Figure 5-7. Elements of the Fractional RF Mode Treatment Screen**



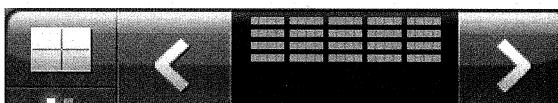
**Figure 5-8. Elements of the Fractional RF Mode Advanced Treatment Screen**

Elements of the Fractional RF mode Treatment screens, as indicated by numbers in Figure 5-7 and Figure 5-8, are described below.

1. **Applicator selector** – Indicates the currently-selected applicator and enables you to select any applicator that is connected to the system by pressing the Left/Right arrows.
  -  Indicates that the selected applicator is Viva.
2. **Tools button** – Displays the Tools screen (*see Chapter 6*).
3. **Energy button** – Resets the Energy setting.
4. **Energy controller** – Enables you to set the output energy for the Viva applicator, as a percentage (11 - 100%) of the maximum energy output, by pressing the -/+ buttons.
5. **Pattern Group button** – Toggles between pattern groups I and II.
  -  Indicates that the selected pattern group is I.
  -  Indicates that the selected pattern group is II.

6. **Pattern selector** – Enables you to select the desired pattern in each pattern group by pressing the Left/Right arrows.

The preset patterns (shown below) determine the footprint of the applicator pin by setting the tip's active pins during RF emission.

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7. **Repeat Mode button** – Enables you to activate/deactivate the Repeat mode (repetitive pulsing).

8. **Repeat Mode controller** – Enables you to set the time interval between pulses in the Repeat mode, by pressing the **-/+** buttons.

9. **Standby button** –

- Places the system in the Standby state in which pulse emission is disabled.
- Illuminates in yellow when the system is in the Standby state.
- Changes to gray when the system is in the Ready state.

10. **Ready button** –

- Places the system in the Ready state in which pulse emission is enabled.
- Illuminates in green when the system is in the Ready state.
- Flashes (for a few seconds) during the transition from Standby to Ready state.
- Changes to solid gray when the system is in the Standby state.

**Note**

- The system's default state is Standby and changes to Ready only when the Ready button is pressed.
- When the system is in the Ready state, pressing any button on the screen will set the system back to the Standby state.

11. **Advanced Settings button** – Displays the Fractional RF mode's Advanced Treatment screen, as shown in Figure 5-8, enabling qualified users to control additional parameters of the Viva applicator.
12. **Pulse Counter** – Indicates the remaining number of pulses out of the total number of pulses of the connected applicator tip. Once the remaining pulses are consumed, a message appears, warning that the tip needs to be replaced.
13. **Pulse Profile controller** – Displays the pulse profile graph and enables you to control the parameters that determine the output energy of the Viva applicator, which are the pulse duration (X axis) and amplitude (Y axis).  
The graph displays the resultant RF energy output as a percentage of the maximum RF energy output.
14. **Pulse Amplitude controller** – Enables you to select the desired pulse amplitude (in Volts), by pressing the **-/+** buttons.
15. **Pulse Duration controller** – Enables you to select the desired pulse duration (in milliseconds), by pressing the **-/+** buttons.
16. **Save Profile buttons** – Enable you to save the set pulse profile, as determined by pulse duration and pulse amplitude, for easy access in future treatments. Up to four profiles can be saved, using buttons 1, 2, 3 and 4.
- To save a profile, press and hold the desired button for three seconds. Saving a profile to a button overwrites and deletes any previously saved profile to that button.
  - To recall a saved profile, press the button to which the profile was saved.

### 5.4.3. IPL Treatment Mode

Figure 5-9 shows the IPL mode Treatment screen.



**Figure 5-9. Elements of the IPL Mode Treatment Screen (with the HR690 IPL Applicator Selected)**

Elements of the IPL mode Treatment screen, as indicated by numbers in Figure 5-9, are described below.

1. **Skin Type selector** – Enables you to select the skin type that matches that of the patient, according to Fitzpatrick's Skin Type category I-VI, by pressing the Left/Right arrows.
2. **Contact Cooling controller** –
  - Enables you to set the cooling level (0% to 100%) for SR515, SR580 and ACDUAL IPL applicators, by pressing the **-/+** buttons.
  - The cooling level cannot be altered if certain skin types are selected.
  - For HR650, HR690, HR650XL and HR690XL IPL applicators the cooling level is locked at 100% and cannot be altered.

3. **Cooling button** – Resets the Contact Cooling level.
4. **Applicator selector** – Indicates the currently-selected applicator and enables you to select any applicator that is connected to the system by pressing the Left/Right arrows.
  -  Indicates that the selected applicator is SR515.
  -  Indicates that the selected applicator is SR580.
  -  Indicates that the selected applicator is HR650.
  -  Indicates that the selected applicator is HR690.
  -  Indicates that the connected applicator is HR650XL.
  -  Indicates that the connected applicator is HR690XL.
  -  Indicates that the connected applicator is ACDUAL.

5. **Tools button** – Displays the Tools screen (*see Chapter 6*).
6. **Fluence button** – Resets the fluence.
7. **Fluence controller** – Enables you to set the output fluence (in  $J/cm^2$ ) for the connected IPL applicator by pressing the  $-/+$  buttons.
8. **Pulse Duration button** – Resets the pulse duration.
9. **Pulse Duration controller** – Enables you to set the pulse duration (in msec) by pressing the  $-/+$  buttons.
10. **Repeat Mode button** – Enables you to activate/deactivate the Repeat mode (repetitive pulsing).
11. **Repeat Mode controller** – Enables you to set the time interval between pulses in the Repeat mode, by pressing the  $-/+$  buttons.
12. **Standby button** –
  - Places the system in the Standby state in which pulse emission is disabled.
  - Illuminates in yellow when the system is in the Standby state.
  - Changes to gray when the system is in the Ready state.
13. **Ready button** –
  - Places the system in the Ready state in which pulse emission is enabled.
  - Illuminates in green when the system is in the Ready state.
  - Flashes (for a few seconds) during the transition from Standby to Ready state.
  - Changes to solid gray when the system is in the Standby state.

**Note**

- The system's default state is Standby and changes to Ready only when the Ready button is pressed.
- When the system is in the Ready state, pressing any button on the screen will set the system back to the Standby state.

**14. Pulse Counter** – Indicates the number of pulses that have been fired in the current treatment session. To reset the Pulse Counter, press it continuously.

## 5.5. Setting the Treatment Parameters

**To set the treatment parameters:**

1. Verify that the Treatment screen is displayed, as shown in Figure 5-4.
2. Verify that the Applicator selector indicates the actual applicator that is to be used.
3. Using the Skin Type selector, select the skin type that matches that of the patient, according to Fitzpatrick's Skin Type category I-V.
4. Using the Fluence controller, set the desired fluence.
5. Using the Pulse Duration controller, set the desired pulse duration.
6. If Repeat mode is to be used, press the Repeat Mode button to activate it and use the Repeat Mode controller to set the number of pulses per second.
7. For SR515 and SR580 IPL applicators, use the Contact Cooling controller to set the desired cooling level.

**Note**

- The cooling level cannot be altered if certain skin types are selected.
- For HR650, HR690, HR650XL and HR690XL IPL applicators the cooling level is locked at 100% and cannot be altered.

## 5.6. Using Preset Parameters in the (MP)<sup>2</sup> Treatment Mode

The system provides six sets of treatment parameters, which can be recalled, as desired, in the (MP)<sup>2</sup> treatment mode (with Diamodpolar and Octipolar applicators).

### 5.6.1. Recalling the Preset Treatment Parameters

To recall a preset:

1. From the (MP)<sup>2</sup> mode Treatment screen (see Figure 5-6), press the **Preset** button (as described in section 5.4.1, on page 5-8); the Preset screen appears, as shown in Figure 5-10.

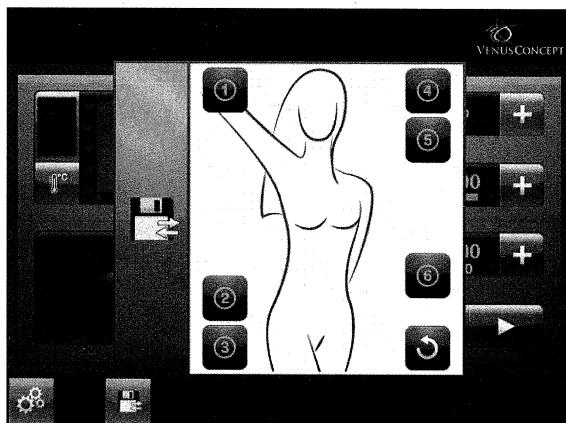


Figure 5-10. Preset Screen

2. From the Preset screen, select the desired preset number (1-6); the system loads the selected preset and the corresponding parameters (saved with the preset) appear in the (MP)<sup>2</sup> mode Treatment screen (see Figure 5-6).

**Note**

To quit the Preset screen without making any changes, press the **Return** button.

### 5.6.2. Changing the Preset Treatment Parameters



**Caution**

Saving the new treatment parameters to a preset supersedes and deletes the existing parameters for that preset.

To change the parameters of a preset:

1. Set the desired (MP)<sup>2</sup> treatment parameters (as you want them to be saved in a preset), as described in section 5.5, on page 5-21.
2. Press the **Preset** button (as described in section 5.4.1, on page 5-8); the Preset screen appears, as shown in Figure 5-10.
3. In the Preset screen, press and hold the button of the preset number to which you want to save the set treatment parameters.

Continue holding the button until the inward arrow of the Preset screen icon changes to green, as shown in Figure 5-11, indicating that the new parameters are saved to the selected preset.



**Figure 5-11. Preset Icon Inward Arrow Changing to Green**

Upon recalling this preset, the system loads and displays the saved parameters.

**Note**

To quit the Preset screen without making any changes, press the **Return** button.



## 5.7. Emitting the Treatment Energy

### To emit the treatment energy:

1. Verify that the Applicator selector indicates the actual applicator that is to be used.
2. Verify that the treatment parameters are properly set, as described in section 5.4.
3. Place the system in the Ready state by pressing the Ready button [not relevant to (MP)<sup>2</sup> treatment mode].
4. Verify that the applicator is placed on the treatment area.
5. Emit the treatment energy as follows:
  - In the (MP)<sup>2</sup> treatment mode, press the Start button.
  - In the Fractional RF treatment mode, press the applicator's trigger.
  - In the IPL treatment mode, press the applicator's trigger.

# Chapter 6

## Advanced Features and Settings

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