

USER MANUAL





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FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A DENTIST OR PHYSICIAN OR OTHER LICENSED MEDICAL PRACTITIONER



WARNINGS & CAUTIONS

Failure to comply with precautions and warnings described in this User Manual may lead to exposure to dangerous optical radiation sources. Please comply with all safety instructions and warnings.



Safety is paramount when using any energy-based surgical instrument and your office should implement a safety program for the Gemini EVO 810+980 soft tissue diode laser. If your office does not already have a safety officer, one should be appointed to be responsible for understanding proper use, safe operation, and maintenance of the Gemini EVO laser system. Their duties should include training office personnel in all aspects of system safety and management of the Gemini EVO laser and all accessories. For additional troubleshooting questions and tips call 1.801.553.4574. To check for the latest software updates, download the Gemini EVO app in the iOS or Android web store.

WARNINGS & CAUTIONS



WHAT IS IN THE BOX

The Gemini EVO 810+980 soft tissue laser includes the following.



Laser Unit



Activation Pedal with 2 AA Batteries



Fiber Delivery System



Pre-Initiated Disposable Tips (10) Bending tool included in the tip box



*AC/DC Power Supply



*Protective Eyewear (x3)



3 mm, 7 mm, and 25 mm PBM adapters



UNPACKING INSTRUCTIONS

A manufacturer or dealer representative can provide assistance when you are ready to remove the laser from its shipping container. Please do not attempt to unpack the Gemini EVO 810+980 soft tissue laser or install the system without reading this manual first. If you are unsure about any aspect of the assembly, call your customer service representative or dealer for assistance.

SHIPPING CONTAINER INFORMATION

The shipping container you received with your Gemini EVO 810+980 soft tissue laser was specially designed to safely transport the device. In the unlikely event that you need to return the laser for service or repair, please retain the original shipping container.

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OVERVIEW - LASER UNIT



OVERVIEW - ACTIVATION PEDAL



OVERVIEW - FIBER DELIVERY SYSTEM

The Fiber Delivery System is a unique and ergonomic optical cable that is non-detachable from the laser unit. The handpiece will require cleaning and sterilization after each patient treatment. Disposable tips are intended for single-use only and must be disposed of after each patient use.

Refer to pages 46-48 for cleaning and sterilization procedures.



QUICK START



Download the Mobile App





Plug In Power Supply

During initial setup use the AC/DC power supply for at least one hour to fully charge the battery. Plug the power supply into an AC outlet and connect to the corresponding connector on the rear of the system.



Insert AA Batteries into Activation Pedal

Install the (2) provided AA batteries into the wireless activation pedal. When replacing the AA batteries, we recommend an ALKALINE type battery.



Turn Laser Unit ON

The Universal ON/OFF button is a membrane switch which requires pressure "click" in order to be activated.



6.

980

Enter Electronic Key Passcode

Enter the electronic key passcode on the Guided Touch Interface using the UP and DOWN arrow keys. The security code sequence is **UP, DOWN, UP, DOWN**. A checkmark icon will appear when the correct key is input. Note the screen displays the current software version during passcode entry.



Select the desired laser wavelength on the Guided Touch Interface:

810 nm, Dual or 980 nm Wavelength.

<い) "Please select wavelength"



DUAL

810

Select Your Desired Power Setting

Select your desired power setting, then activate the laser. (Pages 17-21)

01 - ELECTRONIC KEY PASSCODE

The Gemini EVO 810+980 soft tissue laser is equipped with an electronic key passcode. When you turn the laser unit on, the passcode key screen will be displayed at the bottom center of the screen. The correct passcode sequence should be entered on the Guided Touch Interface:



The Gemini EVO 810+980 soft tissue laser is equipped with Guided Touch Interface (GTI) which means only the icons that are relevant for a given procedure will be shown. When entering the electronic key passcode, only the UP and DOWN arrows will be shown as they are the only necessary icons to be touched while entering the passcode.

Note the current software version will be shown at the top of the screen while entering the passcode.

THE GUIDED TOUCH INTERFACE AREA REQUIRES AN EXTREMELY LIGHT TOUCH TO WORK EFFECTIVELY.

THE LIGHTER THE FINGER PRESSURE, THE MORE LIKELY IT WILL SENSE THE TOUCH

02 - SELECTING A WAVELENGTH

When the system is turned on, and the electronic passcode is properly input (Page 14), you will be prompted with voice confirmation "Please select wavelength" and two flashing wavelength graphics to select the desired wavelength of choice. The Gemini EVO 810+980 soft tissue laser can operate in three wavelength modes: 810 nm alone, 980 nm alone, or Dual wavelength. A wavelength mode must be selected before proceeding further, but may be changed at any time.



When selecting a wavelength, the three wavelength options 810 / DUAL / 980 will be shown as they are the only necessary icons to be touched while selecting a wavelength.

03 - ACTIVATION PEDAL CONNECTION

Connecting the activation pedal with your laser unit via Bluetooth for the first time is simple.



Install the provided 2 AA batteries



Turn the laser unit ON



Enter the passcode



Select the wavelength of choice



Press ACTIVE to initiate the Bluetooth Depre connection between the laser unit and pedal once.



Depress and release the activation pedal once. Connection is done automatically.



A Bluetooth indicator will appear on the display and activation pedal when it is properly connected and the laser is in ACTIVE mode.



The activation pedal comes with a protective shroud to prevent accidental laser activation. Please do not step on the protective shroud as it could result in accidental damage to the activation pedal.

PAIRING A NEW ACTIVATION PEDAL

Follow the instructions on Page 36 to add a new activation pedal to an existing Gemini EVO device.

04 - MANUAL POWER ADJUSTMENT

The Gemini EVO 810+980 soft tissue laser can output up to a maximum of 2.0 Watts of average power. To adjust the power setting manually, touch the **LEFT** and **RIGHT** arrows on the Guided Touch Interface. Each touch of an arrow raises or lowers the power by 0.1 Watts. Touching and holding an arrow will increase the speed in which the power setting is raised or lowered. Touch the ACTIVE button to put the laser in ACTIVE mode. Depress the activation pedal to initiate the laser.



CLINICAL TIP

Optimal results will be achieved by regulating the power and the speed that the operator moves the fiber optic tip. Tissue charring is an undesirable after-effect of too much power or of the fiber tip moving too slowly. Always use the least amount of power that is required to complete your procedure. The ideal tissue response will show little or no discoloration after treatment and will result in less collateral damage and faster healing.

Avoid penetrating or damaging the periosteum, and do not attempt to use the laser on alveolar bone. Because the laser energy is attracted to melanin and hemoglobin, power must be reduced when treating patients with darker pigmented soft tissue.

05 - LASER STBY AND ACTIVE MODES

The ACTIVE/STBY Guided Touch Interface selection serves a **dual purpose**. It activates (ACTIVE) and deactivates the laser (STBY). By default, the system powers up in STBY mode. The laser cannot be activated prior to selecting a wavelength. Each time the ACTIVE/STBY selection is touched, the system toggles between ACTIVE and STBY modes. There is an audio confirmation (unless voice confirmation is muted), and an icon for either "ACTIVE" or "STANDBY" near each wavelength indicator. The red aiming beam and tip illumination are visible only when the laser is in ACTIVE mode.

When the system is in ACTIVE mode, touching any selection other than LEFT and RIGHT will return the system to the STBY mode. When the activation pedal is depressed in the ACTIVE mode, the outer indicator lines around each wavelength icon on the display flashes to provide a visual indication that the laser is firing. There is also an audio beep when the laser is being fired. For safety purposes, a laser firing delay of 0.25 seconds was implemented in order to prevent accidental activation.



06 - PRESET PROCEDURE SETTINGS AND CUSTOMIZATION

Touch the PRESET selection to bring up all the preset procedures and categories on the display. A collection of preprogrammed procedures will be revealed on the display. Selecting the LEFT and RIGHT arrows will toggle between **NON SURGICAL, SURGICAL,** and **PAIN RELIEF** categories. Selecting the UP and DOWN arrows will toggle between procedures within each category. The corresponding power setting for each procedure is displayed on the power indicator when the procedure is highlighted.



PRESET PROCEDURE SETTINGS AND CUSTOMIZATION

The Gemini EVO 810+980 soft tissue laser is pre-programmed with 16 procedures listed under three categories: **NON SURGICAL, SURGICAL,** and **PAIN RELIEF**. Within each category are the most commonly used procedures with suggested power settings. Always use the minimum amount of power necessary to perform a particular procedure. Manual power adjustment may be necessary depending on patient and procedural needs.

NON SURGICAL	Tissue Contact	810	DUAL	980
Decontamination	Yes	0.6 w	0.5 w	0.6 w
Aphthous Ulcer	No	0.7 w	0.6 w	0.8 w
Hemostatis	Yes	0.9 w	0.8 w	1.0 w
Debridement	Yes	0.4 w	0.3 w	0.5 w
SURGICAL	Tissue Contact	810	DUAL	980
Incision / Excision	Yes	1.1 w	1.0 w	1.2 w
Implant Recovery	Yes	1.3 w	1.1 w	1.5 w
Tooth Exposure	Yes	0.8 w	0.7 w	0.9 w
Operculectomy	Yes	1.2 w	1.1 w	1.4 w
Gingivoplasty	Yes	0.8 w	0.7 w	0.9 w
Gingivectomy	Yes	1.0 w	0.9 w	1.1 w
Frenectomy	Yes	1.2 w	1.1 w	1.4 w
Pulpotomy	Yes	0.8 w	0.7 w	1.0 w
Troughing	Yes	0.9 w	0.8 w	1.0 w
PAIN RELIEF	Tissue Contact	810	DUAL	980
7 mm Tip	User choice	0.3 w	0.3 w	0.3 w
3 mm Tip	User choice	0.3 w	0.3 w	0.3 w
25 mm Tip	Spacer	1.0 w	1.0 w	1.0 w

Note: Preset procedure settings are only a general recommendation from the manufacturer. They are not meant to replace the need for proper training or clinical judgement of the operator. The presettings are subject to changes through software updates and may therefore differ slightly from the settings indicated on this page. All power settings are shown in average power.

PRESET PROCEDURE SETTINGS AND CUSTOMIZATION

Gemini EVO 810+980 soft tissue laser preset procedure settings can be customized. To save your own procedure setting, press PRESET once to bring up preset procedures on the display and navigate to the procedure you would like to customize.



07 - TIP ILLUMINATION

The Gemini EVO 810+980 soft tissue laser handpiece is equipped with a tip illumination light to provide better visibility of the surgical site during treatment. To toggle the light intensity between LOW, MEDIUM, HIGH, and OFF, touch the MENU icon and select TIP LIGHT on the Guided Touch Interface. Then use the UP / DOWN arrows to change LED intensities. LED will only stay on for 3 seconds as a preview when not in ACTIVE mode. TIP LIGHT icon shows Green color when this feature is enabled and Red when it is OFF.

Please note UP / DOWN arrows will appear and disappear according to the selected settings. As an example, if you select HIGH, the UP arrow will disappear indicating this is the highest setting available. The same behavior happens when you select OFF, in which the DOWN arrow will disappear.



08 - HAPTIC SENSE (HS) - ACTIVATION PEDAL & PBM ADJUSTMENTS

The Gemini EVO 810+980 soft tissue laser is equipped with Haptic Sense (HS) in order to add an additional dimension of feedback while depressing the activation pedal or during PBM procedures. This feature will provide the user a buzzing sensation to the foot or hand while the activation pedal is depressed. To toggle the Haptic Sense (HS) between activation pedal and handpiece (PBM procedures only), press the HAPTIC icon. Blue icon indicates Haptic Sense is available for activation pedal and Amber icon for handpiece (PBM procedures only). To adjust intensities between LOW, MEDIUM, HIGH, and OFF, touch the UP / DOWN arrows to change the intensities.



09- SOUND

To change the sound level, touch the MENU icon and then the SOUND icon on the Guided Touch Interface. Adjust the sound level by touching the UP / DOWN arrows. To exit, touch the MENU icon to save your selection. The system remembers the last used sound setting when it is powered on. When UP arrow disappears, this indicates the volume is all the way to max and vice versa. Icon shows Red when OFF.



Voice Confirmation can be enabled and disabled by touching the voice confirmation selection on the Guided Touch Interface. Red icon shows disabled and Green enabled.

10 - AIMING LIGHT

To change the aiming light intensity, touch the MENU and then the AIMING icon on the Guided Touch Interface. Adjust the aiming light level by touching the UP / DOWN arrows. To exit, touch the MENU icon to save your selection. The system remembers the last used sound setting when it is powered on. When UP arrow disappears, this indicates the setting is all the way to max and vice versa. Icon shows Red when OFF.



11 - PHOTOBIOMODULATION (PBM) / WARNINGS & CAUTIONS



CONTROLS, OPERATION & USE



3 mm and 7 mm PBM adapters can be used intraorally

PBM ASSEMBLY (Attachment threading procedure applies to all PBM tips equally)



PBM dust covers for the 25 mm adapter should be wiped down with Caviwipes or equivalent product to avoid potential cross contamination.

2. Screw the PBM adapter onto the end of the Gemini EVO laser handpiece until it is tight.



3. If using the 25 mm PBM adapter, a spacer must be attached to the end of the adapter for proper use. Simply screw the spacer onto the end of the 25 mm PBM adapter.



The PBM adapter is now ready to use. To remove the PBM adapter, unscrew it from the Gemini EVO laser handpiece, remove and discard the spacer, and re-install dust covers when not in use.

SELECTING AND ADJUSTING PBM PRESET

To enable Pain Relief, select PRESET on the Guided Touch Interface and navigate with the right arrow to the PAIN RELIEF category.



Use the UP / DOWN arrow to select

Laser unit is ready for PBM treatment. Pressing the activation pedal begins the treatment and timer counts down in seconds and stops automatically. If the activation pedal is released mid-treatment, the timer will pause and will resume when the pedal is depressed again.

USE RECOMMENDATIONS

Affected muscles and/or joints have to be exposed to an adequate level of laser energy over a period of time to provide effective results. Some cases may require more than one laser treatment, or a series of treatments, before significant improvement is reported. Repeat the treatment as necessary and monitor the progress of the patient's condition throughout the treatment.

Diode laser wavelengths, especially 810 nm, are well absorbed in melanin in the skin, which can lead to greater heating of the target tissues in patients with darker skin types. Power and treatment time should be taken into account for patients of varying skin pigmentation. Refer to the Fitzpatrick Skin Type Scale for proper skin classification.

Pain Relief preset procedure settings are programmed into the Gemini EVO laser for ease of use. Always use professional clinical judgment when selecting the laser settings for pain therapy.

Monitor the patient and adjust the power and/or treatment time as necessary to ensure both efficacy and patient comfort. The preset procedure setting is not meant to be a clinical recommendation in any way.

When you are ready to begin treatment, hold the PBM adapter in contact with the target treatment area. The PBM adapter is designed to be held in a constant location for the duration of the treatment. If the desired treatment area is larger than the PBM adapter's spot size, move the adapter to a new location and start a new treatment only after the initial treatment time has elapsed.

PBM ADVERSE EVENTS & CONTRAINDICATIONS

If patient discomfort or reddening of the skin in the treatment area occurs at any time during treatment, you can do the following:

- Defocus the laser energy by moving the adapter a few centimeters back from the skin
- Decrease the treatment time
- Stop treatment

If blistering of the skin occurs, or the patient feels a burning sensation, immediately stop treatment and rinse the area with cool water or place a cold pack on the affected area for at least 5 minutes. Afterwards, apply a burn ointment or spray. DO NOT USE ICE.

- Do not use over articles of clothing
- Do not treat open wounds
- Do not apply ointment, creams, lotions, or heating lotion patches at, or in close proximity to, the treatment area.
- Do not apply therapies prior to treatment that could change body temperature, such as ultrasound, ice/heat pack, electrical stimulation, or heating patches.

PBM ADVERSE EVENTS & CONTRAINDICATIONS

- Avoid treatment sites with tattoos.
- Different implant materials will respond differently to laser energy and heat; be aware of any implants and their location; avoid direct exposure to laser energy or heat at the site of the implant.
- Excessive fatty tissue is known to transmit heat without much attenuation, therefore increase distance or decrease treatment time.
- Muscle tissue closer to the skin surface may experience a higher absorption of heat; carefully monitor skin temperature and reduce treatment time as necessary.
- Patients with swelling and/or inflammation may be sensitive to heat; reduce treatment time as necessary to ensure comfort during treatment.
- Patients with tender or sensitive skin may be hypersensitive to heat; reduce treatment time as necessary to ensure comfort during treatment.
- Scar tissue has been associated with poor circulation and reduced cooling through heat transport by blood; reduce treatment time as necessary to avoid overheating.
- Do not treat directly over the site of any known primary malignant carcinoma or secondary metastasis except for palliative care with informed consent and oncologist permission.
- Do not treat pregnant women as the effects of photobiomodulation therapy on the fetus are unknown.

PBM ADAPTER MAINTENANCE

When using the 25 mm PBM adapter, a spacer must be attached to the end of the adapter for proper use. The disposable spacers are supplied non-sterile by the manufacturer and should be wiped with isopropyl alcohol wipes by the operator prior to use. The spacers are intended for single-use only and should never be autoclaved or reused to prevent damage or cross-contamination.

The 25 mm PBM adapter is also provided non-sterile by the manufacturer and can be wiped as needed using isopropyl alcohol wipes. Do not submerge the 25 mm PBM adapter in any type of cleaning solution. DO NOT AUTOCLAVE the 25 mm PBM adapter.

Use the included cleaning cloth to gently wipe the glass optics of the 25 mm PBM adapter as needed. Do not use any harsh chemicals or abrasives to clean the glass optics within the 25 mm PBM adapter. Doing so may damage the glass.

The 7 mm and 3 mm PBM adapters can be cleaned and sterilized per the instructions on pages 46-48.

PBM ADAPTER SPECIFICATION

	25 mm PBM Adapter	7 mm PBM Adapter	3 mm PBM Adapter
Dimensions	63 x 41 x 41 mm	100 x 24.7 x 14.9 mm	100 x 20.5 x 14.9 mm
Weight	76 grams	50 grams	50 grams
Spot Size	4.91 cm ²	0.38 cm ²	0.07 cm ²
Power (under preset)	1.0 Watt Average	0.3 Watt Average	0.3 Watt Average
Power Density	204 mw/cm ²	780 mw/cm ²	4244 mw/cm ²

PBM DOSAGE TABLE

Time in Seconds	25 mm PBM Dose (J/cm²)	7 mm PBM Dose (J/cm²)	3 mm PBM Dose (J/cm²)	
03	0.6	2.3	12.7	
06	1.2	4.7	25.5	
09	1.8	7.0	38.2	
12	2.4	9.4	50.9	
15	3.1	11.7	63.7	
18	3.7	14.0	76.4	
21	4.3	16.4	89.1	
24	4.9	18.7	101.9	
27	5.5	21.1	114.6	
30	6.1	23.4	127.3	
33	6.7	25.7	140.1	
36	7.3	28.1	152.8	
39	8.0	30.4	165.5	
42	8.6	32.8	178.2	
45	9.2	35.1	191.0	
48	9.8	37.4	203.7	
51	10.4	39.8	216.4	
54	11.0	42.1	229.2	
57	11.6	44.5	241.9	
60	12.2	46.8	254.6	

12 - DISPOSABLE TIP OPERATION

The disposable fiber tip is relatively flexible, but can be broken if bent at an angle that is too sharp. Use the provided bending tool* to bend the tip to the desired angle. Do not bend the tip any more than the bending tool allows.

Protein debris from gingival tissue accumulates on the fiber tip during surgery and the heat that develops will deteriorate the optical efficiency. Fibers can fracture if a blackened area greater than 3–4 mm develops.

Replace the disposable, single-use fiber optic tip as necessary and for each new patient. The tips are provided in a sealed package. They are designed for single-use only and must be discarded after use.



For easy storage, you can clip and slide bending tool on the black optical fiber cable when the laser is not in use.

*Only use the bending tool with CLEAN tips prior to use. If the bending tool contacts a tip that has been used on a patient it must be disposed of in an infectious waste container (SHARPS).





DO NOT OVERBEND TIP / DO NOT BEND WITH FINGER

DISPOSABLE TIPS

The Gemini EVO laser's single-use 5 mm fiber tips are unique in that they come pre-initiated. That means there is black pigment added to the end of each fiber tip to help focus laser energy at the tip. All procedures that require the removal or cutting of soft tissue require an initiated tip.



To ensure that the tip stays initiated when wiping the tip with isopropyl alcohol before a procedure, activate and fire the laser at 1 Watt of average power for 1-2 seconds prior to wiping the tip. This action will ensure that the pre-initiation does not wipe off during the cleaning process.

Should you start treating a patient with an un-initiated tip, and then need to initiate the tip to continue treatment, rub the tip on articulating film while firing the laser on a low power setting. This will melt some dark pigment onto the fiber tip, thereby initiating it.

Laser procedures that do not remove tissue, such as decontamination or aphthous ulcers, do not require the laser tip to be initiated. Use a 7 mm uninitiated tip for these types of procedures.

If you are using a new pre-initiated 5 mm tip and want to remove initiation,

simply rub off the pigment at the end of the fiber tip with gauze and isopropyl alcohol. This pigment removal must occur before firing the laser with that tip.



5 mm Tips (Pre-Initiated)

Surgical procedures such as Incision/Excision, Implant Recovery, Tooth Exposure, Operculectomy, Gingivoplasty, Gingivectomy, Frenectomy, and Troughing are some of the procedures recommended with a 5 mm tip.



7 mm Tips (Un-Initiated)

Decontamination and Aphthous Ulcer are some of the procedures recommended with a 7 mm tip.

13 - BATTERY and BATTERY LEVEL INDICATIONS

The Gemini EVO 810+980 soft tissue laser is equipped with a Lithium-ion battery capable of delivering a full day of laser usage. Simply connect the provided power supply to the rear of the unit and charging will start immediately.

It is recommended to fully charge the laser unit prior to initial use after unpacking.

The battery level indicator is located at the upper right corner of the display and shows battery percentage remaining.

	100%	Usage Time:	2.0 hours of consecutive max power of 2.0 W
	75%	Usage Time:	1.5 hours of consecutive max power of 2.0 W
	50%	Usage Time:	1.0 hour of consecutive max power of 2.0 W
	25%	Usage Time:	30 minutes of consecutive max power of 2.0 W ◀€ "Please connect power supply" reminder.
	0%	Minimum of 60	minutes of charging is required before first use
To preserve battery life, the laser unit goes into "Inactivity" mode within 10 minutes of inactivity.			
The Lithium-ion battery has a typical lifespan of 2 years, at which time it is advised that the battery be replaced.			
		r ontimal battery long	avity avoid leaving the unit plugged into the power supply for over 48 hours. It's

CAUTION: For optimal battery longevity, avoid leaving the unit plugged into the power supply for over 48 hours. It's recommended to allow the battery to fully drain to the low (1 bar) level before initiating a recharge. When storing the unit for extended periods, it's advisable to keep the battery level at medium (2 bars) to enhance battery life.

14 - POWER SUPPLY

Use only the provided 18 V, 3.6 A AC/DC power supply for charging the system battery and as an alternate laser power source. During initial setup use the AC/DC power supply for one hour to fully charge the battery.

Plug the power supply into an AC outlet and connect to the corresponding connector on the rear of the laser unit. Only use the power supply provided with the system.

WARNING: To avoid the risk of electric shock, this equipment must only be connected to a supply mains with protective earth.

ONLY USE THE 18 V POWER SUPPLY WITH THE GEMINI EVO 810+980 DIODE LASER. OTHER POWER SUPPLIES INCLUDING THE POWER SUPPLY FROM OTHER GEMINI LASER PRODUCTS CAN CAUSE DAMAGE TO YOUR GEMINI EVO LASER UNIT.

15 - FIBER WRAPPING

A fiber wrapping system was built within the laser unit in order to provide a safe and convenient way to manage and store the optical fiber system. To store the fiber properly, always wrap in a clockwise direction to protect and store the fiber optic cable when not in use.





CAUTION: AVOID DAMAGING THE FIBER. Do not wrap the fiber in a counterclockwise direction. Doing so will possibly damage the optical fiber, preventing the use of the laser.



The fiber optic cable conducts laser energy from the laser diodes to the target tissues. These fibers are made of a thin glass silica. Note that there are potential hazards when inserting, steeply bending, or improperly securing the fiber optic tips to the handpiece. Failure to follow these recommendations may lead to damage of the fiber or delivery system, and/or harm to the patient, staff, or laser operator.

16 - HANDPIECE MAGNET

The Gemini EVO 810+980 soft tissue laser is designed with a magnet that will secure the surgical handpiece in place when the laser is not in use. Gently place the handpiece behind the transparent display or over the "rounded pad" of the laser unit and the magnet will hold the handpiece in place.



17 - OPERATING MODE

The Gemini EVO 810+980 soft tissue laser will only deliver energy in pulsed "temporal emission mode" and is optimized to provide the operator ideal control of target tissue temperatures and efficiency of energy delivered. The pulse width is fixed and not user adjustable. The operator will only need to adjust the laser wavelength and average power.

18 - EMERGENCY STOP

The Gemini EVO 810+980 soft tissue laser can be immediately deactivated in any mode, at any time, and in any power setting by pressing the Red STOP button located in the front left of the system.



19 - REMOTE INTERLOCK (Switch Not Included)

The Gemini EVO 810+980 soft tissue laser provides a remote interlock feature that enables a clinician to establish a dedicated laser treatment room with a remote interlock connector. A switch on the entrance door is attached and is electronically wired into the laser unit via 3.5 mm plug jack. When the door to the room is opened, the connector/ switch provides an electrically open circuit that deactivates laser emissions. To use the remote interlock feature, an interlock connector/switch and cable must be purchased. Contact the manufacturer for assistance.



20 - ADD NEW ACTIVATION PEDAL OR RECONNECT / PAIR - BLUETOOTH CONNECTION

In certain instances, your office may need to have an additional activation pedal with the same Gemini EVO device, or you may lose your Bluetooth pairing connection. In either case, follow the instructions below to properly reconnect and establish pairing Bluetooth connection with your Gemini EVO unit. For a successful pairing, the sequence below must be followed:


21 - TRANSPARENT ELECTROLUMINESCENT DISPLAY

The Gemini EVO 810+980 soft tissue laser is designed with a transparent electroluminescent display that can provide high resolution viewing angles from up to 160 degrees of field of view.

The transparent display was specially designed with over 80% transparency and an arch of 15 degrees for optimal viewing angle from any direction. The light is generated by a thin film, less than 2 microns thick, of specially designed electroluminescent phosphor.



DISPLAY SPECIFICATIONS

Display Type:	Electroluminescent
Transparency:	80%
Brightness:	300 cd/m^2
Color:	Broadband Yellow
Peak Wavelength:	582 nm
Voltage:	~195 V AC
Response Time:	1.8 ms
Glass Type:	Soda lime
Glass Thickness:	4.1 mm fused
Thin Film Thickness:	~2 micron



22 - ENABLING WI-FI CONNECTIVITY VIA APP

The Gemini EVO 810+980 soft tissue laser enables you to bridge your location's existing Wi-Fi network directly to the Gemini EVO unit. This provisioning enables your Gemini EVO unit to receive internet connection, allowing the user access to important performance updates, technical support, procedure tracking, and a multitude of other features.

To properly enable Wi-Fi connectivity, please follow the steps below:





Selecting a Wi-Fi network

A list of Wi-Fi networks will be displayed. Please select the Wi-Fi network associated to your office location and enter appropriate password. Please note the Gemini EVO laser Wi-Fi is compatible with 2.4 GHz networks only. **If you have a secure firewall or Anti-Virus software, you may need to contact your network administrator in case there are difficulties connecting to your local Wi-Fi network.**



Establishing a Wi-Fi connection

After selecting the appropriate Wi-Fi network and entering the password, the Gemini EVO unit will establish a secure connection with your local Wi-Fi. The Wi-Fi connection between your local Wi-Fi network to the Gemini EVO unit can take up to 2 minutes to complete. The Gemini EVO unit displays a progress bar on the electroluminescent display. Upon connection the app displays the main page shown below.



Similar to identical user interface for Android users. Layout is subject to change based on future updates on all platforms.



Updates

With either the iOS or Android app, you can perform automatic updates directly to your Gemini EVO laser. Automatic updates are extremely important as they enable your Gemini EVO laser to utilize the latest and greatest improvements.



Devices

This page will enable you to add or remove a Gemini EVO device from your registered account. You can have multiple Gemini EVO devices registered with one account. Devices shown in green are currently online. Devices shown in red are currently offline.



Videos

The videos tab will show you several of the procedures that can be performed with the Gemini EVO laser. Additionally, we will upload the latest techniques and customer tips as reference.



Status

The status tab will show several important status conditions such as the health of your battery, the strength of your Wi-Fi connection, and the ability to add and remove another Gemini EVO laser from your account. The status page is the overall health of your Gemini EVO device.

(Reference images only. Actual screen may be different.)



Warranty

With the iOS and Andriod apps, you can purchase an extended warranty if qualified. The Gemini EVO laser comes with 2 years limited factory warranty. You can extend your factory warranty with an additional 24 or 36 months. Warranty starts from shipment day. Prices shown are subject to change.

Back	YOUR OFF	FICE NA
Top 10 F Procedu	Preset Jres ()	Global 🔻
20		7mm PBM
20		Incision/Excision
20		Troughing
16		Implant Recovery
16		Tooth Exposure
16		Decontamination
15		Frenectomy
14		Pulpotomy
11		25mm PBM
11		Debridement

Dashboard

With the Gemini EVO app, you can track how many procedures have been performed by category, see which wavelength mode is used the most, as well as the overall laser usage time of this Gemini EVO device.



User Manual

With the iOS and Android apps, you can have access to the user's manual at any time. The user's manual will always contain the latest update, enabling you to always have access to the latest documentation.



Account

The account page allows you to change your registered name, phone number, and product nickname. This is an important feature in case the Gemini EVO device is exchanged with another office.

WEB INTEGRATION VIA THE DASHBOARD



Once connected to Wi-Fi, the GEMINI EVO 810+980 soft tissue laser will share data with the dashboard, which will enable you to visualize several parameters of your laser. In order to get access to the dashboard, the user must have completed the registration process via the iOS or Android app.

Login to <u>dashboard.geminievo.com</u> and use the same login credentials created within the app for iOS and Android devices.

The dashboard is being constantly improved. Some of the features listed might be different and updated/improved since product inception. Our goal is to always improve the system based on customer feedback. If you have an improvement suggestion, please email it to <u>feedback@azenamedical.com</u> and we will do our best to analyze and implement it into our next update cycle.

MENU

	GEMINIEVO	
-	Dashboard	
	Procedure Reports	
	Your Devices 🗸 🗸	
	💗 Sam Sung Dental >	
	🤎 Dr. Maryan T 💦	
-		
	PBM Calculator 🗸	
11	Treatment Dosage Calculator	
	Treatment Dosage in Seconds	
Θ	Treatment Dosage in J/Cm2	
\$	Support 🗸	
٥	Downloads	
	Training Materials	
ist.	Calibration	
ŧ	Promotions	
111	Survey	
Ŗ	Chat	

The main menu features several well organized links to help the user manage their Gemini EVO device. Some of the available features are:

- Get overall visual of everything happening with your Gemini EVO
- Procedure reports display all procedures performed, time, power settings; great for patient notes

Select All	Date of Procedure	Procedure Type	Power	Wavelength	Treatments	Oosage	Procedure Length	Serial Number	Time
	Dec 7th 2021	Gingivectomy	0.9 Watts	DUAL			Z mins, 25 sec	00057	7,35:42am
Si 1 - 1	Diec 6th 2021	Manüal	12 Watts	DUAL			25 sec	00708	1:25:17pm
	Dec 6th 2021	Manual	12 Watts	DUAL			35 sec	00708	1:24:25pm

- Vitals showing the overall health of your Gemini EVO device
- Customize preset settings and procedure fees for ROI tracking
- PBM Calculator lets you visualize PBM treatments based on pain level, tissue color, or time

Treatment Dosage Calculator				Treatment Dosa	ige in Seconds	
present an obvious advice by any mapping	C. He should be painted to be the	oncomplete card and another resolution digentize. In oncomplete integration of appreciate is properly on	a a tertitikang pananan fast ing hadalaan yang besar ne be ang genera biyo te ingel agalaatana.	Case Pro, Pittel Calculate In Advise by	nine at appropriate traditions the based of the PMD Adapter card and any instein, see stread this satisfater replace the necessary specing way	denied Successf (Speciae). This is providing property for the manufacture and proof and all speciaes is groupsly use the Camira (SuC) by 1968 application.
		Bartinel Transac Califor Photographics States		Salar Alapian		-
		1 Sec				00 BEODING = 214 2012
		O Ser 🗰	ALC: NOT A	in two		
Contraction (a test and	1811E7	0.000		
and the second			Ne/			
d Treasmonts Se	e Gemini EVO Io	51 seconds which equals	10 Jong per treatment.			

- Download the latest electronic version of the User's Manual
- Watch the latest training videos
 - View the calibration of your Gemini EVO and download the certificate
 - Get access to special promotions only available via the dashboard
 - Help us improve Gemini EVO by taking a quick product survey
 - Talk to us live via the support chat available during business hours

DASHBOARD



01 - Pre-Set vs Manual

This feature shows graphically the procedures performed manually vs with pre-sets. This is a good way to visualize which procedure method the user is more comfortable using.

02 - Top Procedures

This feature shows graphically the top procedures performed. As with all statistics, the user can select the day, week, month or a custom range to be displayed.

03 - Wavelength Usage - Global

This feature will display graphically which wavelength the user has used the most.

04 - Most Used Manual Power Settings

This feature will display graphically the most commonly used average power in manual mode.

05 - Lifetime Laser Usage

This feature will display the total amount of time the laser has been used. This is similar to a car odometer. It stays with the device.

06 - Top 10 Preset Procedures

This feature shows the top procedures performed by name and by category. This is a good way to visualize which procedure is most performed by the user.

07 - Total Procedures by Category

This feature shows the total amount of procedures performed in a specific period of time.

08 - Revenue Generated

After adding the price and revenue goal of each procedure for the user's practice, the revenue report will automatically display the revenue earned and goal progress for each procedure.

DASHBOARD - VITALS - UNIT SPECIFIC



The vitals page will display specific information about your Gemini EVO device by unique serial number. This type of information is helpful while troubleshooting or visualizing a feature when the user has a functionality issue.

01 - Battery Health

The Gemini EVO is constantly monitoring its battery for maximum efficiency. At any point if the battery requires service or replacement, the SERVICE alert will be red. Under battery health you can also visualize when the unit is being powered by the power supply.

02 - Wi-Fi Strength

Once connected to your local Wi-Fi network, vitals page will show the quality of your network and name of the local network you are connected to. Under poor network conditions, the dashboard information might be slightly delayed.

03 - Bluetooth Signal

When your Gemini EVO connects with your activation pedal under ACTIVE mode, the network strength bar will be

displayed. If connection shows weak or poor, move your activation pedal closer to the Gemini EVO device.

04 - Visual and Audible Status

Visual and Audible settings are the most common settings used with Gemini EVO. Being able to quickly visualize those settings will help you get an overall overview of your selections. Under haptic feedback settings, which shares the same icon on the Guided Touch Interface, this feature will allow you to see both haptic settings on a single screen.

05 - Display / ON-OFF Buttons and Laser Temperature

Your Gemini EVO is constantly monitoring its own performance. If there is any issue with any of these items, the SERVICE alert will be red indicating a possible problem. This information is important for customer service and will help them troubleshoot further.

DASHBOARD - CUSTOMIZE

Customize		Serial 00704			Vitals				
Registered User		01	Laser Units Registered		02	Enter Revenue Per Pr	ocedure		Settings -
First Name:			GEMINI EVO DEMO		02	Non Surgical		Surgical	Pain Relief
Last Name:						Incision/Excision	Price		
Emails						Implant Recovery	Prices	540	
						Tooth Exposure	Prints	\$60	
						Operculectomy	Prides	\$80	
						Gingivoplasty	Price-	\$100	
			Firmware			Gingwestamu	Prices	\$60	
						Frenectomy	Price	\$50	
						Pulpatomy	Price:	\$30	
				Firmware is Up To Date.	03	Troughing	Price:	550	04
							-	582	
Pre-Set Surgical		Not Factory	Pre-Set Non Surgical		Not Factory	Warranty 🖏			Request Shipment Date
810	980	Dual	810	980	Dual				
Incision/Excision	Otawo		Decontamination	OLEWO		Your original fue	tory Warranty	is valid for 24 months	from Shipment Date
Implant Recovery	OISWO		Debridement	00.4WO			Drivet	Norroma Cartificato	
Tooth Exposure	Lewwo.		Aphthous Ulcer	00.7WO		and the second second	a statut	farming cermicale	
Operculectomu	OTEWO		Hemostasis	OWERO					
Gingivoplasty	0 0.8 W 0					manufacture and			
Gingivectomy	OLOWO					extended warranty			
Frenectomy	OVSTO								The second s
Pulpotomy	ODRWO						Purchus	e Extended Wirranity	
Troughing	Owe.oo								

The customization page enables you to customize settings on your Gemini EVO device.

01 - Registered User

This is where you can change your registered name and phone number. E-mail address is your login information and in order to change that the user must call customer service.

02 - Laser Unit Registered

You can change the name of your Gemini Evo. You can also change the name over the iOS and Android apps.

03 - Firmware - Software Updates

You can update your Gemini EVO to the latest software when an update is available by simply clicking UPDATE. You can also update your Gemini EVO via the iOS and Android apps along with the update icon on your Gemini EVO Guided Touch Interface.

04 - Revenue Tracker

You can add the price of each procedure per your office's fee schedule. Additionally you can set goals for each procedure and track your objectives under the main dashboard. If your device is outside the United States, you can change currency by selecting the top right menu.

05 - Custom Presets

Your Gemini EVO comes with preset procedures settings where the power is already set for optimal performance. At times, it may be necessary to change these settings. In order to do that, simply select the + / - icon to adjust to the new preset power. Procedures that show yellow as preset are custom selected by the user within recommended power range for that particular procedure. Procedures that show red as preset are custom selected by the user but are outside of the recommended range by the manufacturer. All procedures can be factory reset by clicking factory reset button.

06 - Extended Warranty

When available based on serial number, extended warranty option may be listed for purchase. Simply follow the onscreen instructions to purchase 2 or 3 years of extended warranty. A warranty certificate will be available for download after purchase.

The Gemini EVO[™] 810 + 980 soft tissue laser is not supplied in sterile condition, nor must it be sterilized before use with the exception of the handpiece, 3 mm PBM, and 7 mm PBM adapters. The following cleaning and sterilization procedures are recommended before the initial use and after each subsequent use:

- 1. The disposable fiber tips are supplied non-sterile by the manufacturer and should be wiped with isopropyl alcohol wipes by the operator prior to use. The tips are to be discarded in an infectious waste container (SHARPS) after each use. There is no reuse or reprocessing procedure indicated for the disposable fiber tips.
- 2. The aluminum handpiece, 3 mm, and 7 mm PBM adapters are also provided non-sterile by the manufacturer and should be cleaned and sterilized prior to initial use and after each use following these instructions:

CLEANING

The cleaning process is intended to remove blood, protein, and other potential contaminants from the surfaces and crevices of reusable accessories. This process may also reduce the quantity of particles, microorganisms, and pathogens present. Cleaning must be performed within a maximum of 1 hour after the procedure and always prior to sterilization:

- 1. After use, carefully remove the disposable fiber tip from the handpiece and dispose of in an infectious waste container (SHARPS).
- 2. Clean the handpiece and attached fiber cable by using one CaviWipes[®] towelette, or equivalent product, for 30 seconds to completely pre-clean exposed areas of all gross debris. Be sure to wipe the threaded area where the disposable tip attaches. The same procedure applies for 3 mm and 7 mm PBM adapters. PBM adapters must be removed from handpiece prior to cleaning.
- 3. An FDA-cleared barrier sleeve, made for dental instruments, should be used on the 3 mm and 7 mm Intraoral PBM adapters before being used. Discard after each use and follow proper sterilization instructions.
- 4. Use a new towelette to thoroughly wet all pre-cleaned areas—keeping all areas wet for 2 minutes at room temperature (68° F/20° C). Repeated use of towelettes may be required to ensure that the surfaces remain visibly wet.
- 5. Visually inspect the handpiece to ensure there is no visible debris remaining. If necessary, continue wiping with CaviWipes towelette until all visible debris is removed.
- 6. Wipe all exposed areas of the handpiece shell with isopropyl alcohol wipes to remove any residue left by the CaviWipes towelette.

WARNING:

THE GEMINI EVO[™] 810 + 980 SOFT TISSUE LASER AND ITS COMPONENTS CANNOT BE CLEANED WITH AN AUTOMATED CLEANING PROCESS.

STEAM STERILIZATION

The steam sterilization process is intended to destroy infectious microorganisms and pathogens. Always perform the sterilization procedure immediately after cleaning and prior to use, and only use FDA-cleared (USA) or CE-marked (Europe) sterilization accessories such as sterilization pouches and autoclave trays.

- 1. Place the handpiece shell, 3 mm and/or 7 mm PBM adapters in a separate single-wrap, self-seal autoclave pouch.
- 2. Place on an autoclave tray with paper side down; do not stack other instruments on top of the pouch.
- 3. Place the tray inside the autoclave chamber and set the cycle to 135° C (275° F) for a minimum of 10 minutes with a dry time of 30 minutes. This suggested sterilization cycle of 135 degrees C (275 degrees F) for a minimum of 10 minutes with a dry time of 30 minutes is considered by the United States Food and Drug Administration to be a standard sterilization cycle. We recommend sterilizers and accessories (such as sterilization wraps, sterilization pouches, chemical indicators, biological indicators, and sterilization containers) that have been cleared by the USFDA for the selected sterilization cycle specifications.

It is recommended to use a sterilizer and any accessories that are capable of reaching 135 degrees C (275 degrees F) and capable of reaching a 10-minute cycle with a 30 minute dry time such as the Getinge Sterilizer 533LC (FDA 510k #K070657) along with an FDA-cleared sterilization pouch such as Chex-all 3x8"(FDA 510k #K162258).

- 4. Once the cycle is completed, remove the tray and let the sterilized item cool and dry. The handpiece, 3 mm and/or 7 mm PBM adapters must remain in the sterilization pouch until used in order to maintain sterility.
- 5. Visually inspect handpiece shell or 3 mm/7 mm PBM adapter to ensure product is not degraded. Below are the criteria for the degradation for the respective items:

A visual and mechanical inspection of the PBM adapters and aluminum handpiece after each sterilization should be conducted to ensure adapters have not degraded and lost performance. Unacceptable deterioration includes cracked glass, delamination of anodized material, a non-uniform circular spot when checking the aiming light on a flat surface and not being able to fully thread onto the handpiece. In the event the adapters have cracked glass or a non-circular aiming light spot, please send the adapters back to the manufacturer for review.



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Remove / reassemble the handpiece shell or 3 mm/7 mm PBM adapter following the instructions below.



To reassemble, slide the handpiece shell onto the handpiece body and turn clockwise to tighten.

NOTE: The exterior of the laser unit is not routinely contaminated by procedures. The Guided Touch Interface and electroluminescent display should be covered with a protective clear adhesive barrier film, replaceable after each patient. If the exterior of the laser unit should become contaminated, it should be wiped down with CaviWipes, or equivalent product, then re-covered with a new protective plastic cover. We recommend wringing out any cleaning wipes before use to avoid dripping liquid on the laser unit.



DO NOT SPRAY ANY DISINFECTANT DIRECTLY ON THE LASER UNIT, BECAUSE <u>IT WILL</u> DAMAGE THE TRANSPARENT ELECTROLUMINESCENT DISPLAY.

DO NOT USE ABRASIVE MATERIALS TO CLEAN THE LASER OR THE DISPLAY.

The following procedure guidelines are provided as a guide only and have been developed based on information provided by experienced laser users and educators. Always review the patient's history to evaluate possible contraindication for use of local anesthesia or other complications.

All clinical procedures performed with the Gemini EVO 810+980 soft tissue laser must be subjected to the same clinical judgement and care as with traditional techniques and instruments. Patient risk must always be considered and fully understood before clinical treatment. The clinician must completely understand the patient's medical history prior to treatment.

INDICATIONS FOR USE

The Gemini EVO 810+980 soft tissue laser is intended for the incision, excision, vaporization, ablation, and coagulation of oral soft tissues including marginal and inter-dental gingival and epithelial lining of free gingiva and the following specific indications:

- Excisional and incisional biopsies
- Exposure of unerupted teeth
- Fibroma removal
- Frenectomy
- Frenotomy
- Gingival troughing for crown impressions
- Gingivectomy
- Gingivoplasty
- Gingival incision and excision
- Hemostasis and coagulation
- Implant recovery
- Incision and drainage of abscess
- Leukoplakia
- Operculectomy
- Oral papillectomies
- Pulpotomy
- Pulpotomy as an adjunct to root canal therapy
- Reduction of gingival hypertrophy
- Soft tissue crown lengthening
- Treatment of canker sores, herpetic and aphthous ulcers of the oral mucosa
- Treatment of aphthous ulcers
- Vestibuloplasty
- Tissue retraction for impression
- Lesion (tumor) removal

Laser Periodontal Procedures

- Laser soft tissue curettage
- Laser removal of diseased, infected, inflamed and necrosed soft tissue within the periodontal pocket
- Removal of highly inflamed edematous tissue affected by bacteria penetration of the pocket lining and junctional epithelium
- Sulcular debridement (removal of diseased, infected, inflamed and necrosed soft tissue in the periodontal pocket to improve clinical indices including gingival index, gingival bleeding index, probe depth, attachment loss and tooth mobility)
- Reduction of bacterial level (decontamination) and inflammation

Pain Therapy

• Topical heating for the purpose of elevating tissue temperature for a temporary relief of minor muscle and joint pain and stiffness, minor arthritis pain, or muscle spasm, minor sprains and strains, and minor muscular back pain, the temporary increase in local blood circulation; the temporary relaxation of muscle.

All procedures listed in this manual are safe if performed by a licensed, trained professional. The potential side effects to the patient can include swelling, inflammation, redness of the skin, scarring, tissue pigment changes, and infection after treatment. All of these conditions can be reduced by cautiously following the appropriate aftercare or post-operative care instructions.

In addition to receiving proper training in the use of soft tissue dental lasers, users should be familiar and experienced with these procedures using electrosurgical devices or traditional instruments before performing them on patients with the Gemini EVO 810+980 soft tissue laser. Non-experienced users should seek appropriate training guidance before attempting clinical treatments with the laser system.

In order to ensure the safe use of the Gemini EVO 810+980 soft tissue laser in your facility, please check to make sure that the proposed location is compatible with the specifications listed below.

POWER REQUIREMENTS

External AC/DC Power Supply - Use only the provided Gemini EVO laser power supply. Every Gemini EVO laser power supply shows the corresponding label below. DO NOT use any other power supply.

GEMINI

SUPPLY 0

PLEASE USE THIS POWER

PLEASE USE THIS POWER

SUPPLY ONLY WITH

GEMINI

Input Power: 100-240 V; 50-60 Hz, 1.5 A

Output Power: 18 V, 65 W

HEATING AND VENTILATION

Operating environmental conditions to be within $10^{\circ} - 40^{\circ}$ C ($50^{\circ} - 104^{\circ}$ F), and 95% relative humidity or less. Transportation and storage environmental conditions to be within $0^{\circ} - 40^{\circ}$ C ($32^{\circ} - 104^{\circ}$ F), and relative humidity of 95% or less. Atmospheric pressure to be within 70 kPa – 106 kPa in operating, transportation and storage conditions.

COMBUSTIBLE CHEMICALS AND GASES

All gases that are combustible or support combustion and are used in the operatory area where the Gemini EVO 810+980 soft tissue laser is being operated must be turned off during the procedure. Cleaning supplies or other flammable chemical compounds should be stored in an area away from the surgical site in order to avoid possible combustion. Do not use in the presence of supplemental therapeutic oxygen supplies for patients with respiratory or related diseases.

PLUME EVACUATION

Plume evacuation should be addressed when vaporizing tissues. A high volume vacuum system should be used and 0.1 micron or less high filtration masks that are suitable for virus and bacterial control should be worn by clinicians.



CAUTION: LASER FUME AND/OR PLUME MAY CONTAIN VIABLE TISSUE PARTICULATES

DISPOSAL

Please adhere to local guidelines for the environmentally responsible disposal of your laser unit, especially when it comes to electronic components and batteries. Alternatively, you have the option to ship, at your expense, the laser unit to the manufacturer for proper disposal.

OPERATORY ACCESS DURING LASER USE

Access to the treatment area should be restricted while the lasers are in use. A sign indicating "LASER IN USE" should be placed in a designated area adjacent to the treatment area entry location.

Safe use of the Gemini EVO 810+980 soft tissue laser is the responsibility of the entire dental team including the doctor, any system operators, and the dental office safety officer. In order to properly assess the favorable conditions of treatment, below is a pre-treatment checklist to help ensure treatment to your patient is safe:

- Ask the patient about allergy to local or topical anesthetics.
- Make sure the laser warning sign is posted in the operating area.
- Make sure the patient and operator(s) are all wearing laser protective eyewear specific to Gemini EVO laser.
- Have the patient fill out an informed consent form for laser treatment. Form templates are typically available from your laser training provider.
- If performing a non-surgical procedure, use an un-initiated fiber tip.
- If performing a surgical procedure, use an initiated fiber tip.

Adjust the laser power settings as needed to fit the clinical circumstances of the case. The preset procedure settings built into Gemini EVO laser are simply a manufacturer's recommendation. Optimal power level may vary case by case

MARKETING REQUIREMENTS REGARDING MEDICAL DEVICE SAFETY (USA)

The United States Food and Drug Administration (FDA) has control over the sale and use of all medical devices including the Gemini EVO 810+980 soft tissue laser. Manufacturers of products subject to performance standards under the Federal Food, Drug, and Cosmetic Act, Chapter V, Subchapter C - Electronic Product Radiation Control are required to certify compliance with the regulations and furnish various reports to the Center for Devices and Radiological Health (CDRH).

For manufacturers of medical lasers (such as the Gemini EVO 810+980 soft tissue laser system), additional review by the FDA of the safety and effectiveness of the device is required. Companies who intend to market a medical laser or equivalent device must receive authorization from the FDA before the device is permitted into commercial distribution. The premarket notification (510k) process used for the Gemini EVO 810+980 soft tissue laser system is applicable for devices that are documented to be substantially equivalent to existing legally marketed Class II devices.

STATUTORY LICENSURE FOR DENTAL LASER USE

Usually, states or provinces do not have a specific licensure requirement for use of surgical laser devices by dentists. Many states do, however, require hygienists who will be using lasers to attend licensure training that includes both a lecture and hands-on experience.

The license applicants are then required to pass a proficiency test for certification prior to using lasers. These courses are usually taught by members of the Academy of Laser Dentistry who possess instructor credentials. Such training would be appropriate for use of the Gemini EVO 810+980 soft tissue laser system.

OSHA PROVISIONS

Worker safety is the responsibility of the employer and is regulated by OSHA (Occupational Safety and Health Administration), a division of the U.S. Department of Labor. OSHA recognizes ANSI standard Z136.1 as a source for analyzing safety with respect to medical lasers.

For more information see OSHA Technical Manual (TED1- 0.15A) Section III, Chapter 6, 1999. A safety program is recommended for the safety of your patients and office staff in connection with the use of the laser. It is also recommended to check and comply with applicable state and provincial safety and health organization requirements.

CONTRAINDICATIONS

Exercise caution for general medical conditions that might contraindicate a local procedure. Such conditions may include allergy to local or topical anesthetics, heart disease, lung disease, bleeding disorders, and immune system deficiency, or any medical conditions or medications that may contraindicate use of certain light/laser type sources associated with this device. Medical clearance from patient's physician is advisable when doubt exists regarding treatment.

The Gemini EVO 810+980 soft tissue laser is not indicated for hard tissue procedures. The laser is attracted to melanin, hemoglobin, and to some extent, water. Avoid prolonged exposure of the energy when working in and around the cervical areas of the tooth. Due to the thin layer of enamel in this area, energy may be absorbed by the hemoglobin in the pulp and pulpal hyperemia may occur. Extended exposure to such energy could cause patient discomfort and even lead to possible pulpal necrosis.

EYE AND SKIN PROTECTION

While the Gemini EVO 810+980 soft tissue laser is in use, doctors, system operators, auxiliary staff, patients, and anyone in the operatory must wear the appropriate safety eyewear that has been designed for use with the 800-plus nm wavelengths associated with lasers. Eye protection must conform to Specification DIN EN207 Annex II of the Directive 89/686/EEC with optical density of OD+5 for the wavelength range of 800 nm - 1000 nm.

Nominal Ocular Hazard Distance (NOHD) is the distance from the source of laser emission to the point where it no longer exceeds its Maximum Permissible Exposure (MPE – highest level of laser radiation to which a person may be exposed without hazardous effects or adverse biological changes in the eyes or skin). The Nominal Hazard Zone (NHZ) is the space within which the level of direct, reflected, or scattered radiation during normal operation exceeds the appropriate MPEs. The outer limit of the NHZ is equal to the NOHD. The NOHD for persons NOT wearing recommended safety glasses is shown in Table 1 below.

RADIATION SOURCE	MPE μj/cm²	DIVERGENCE ANGLE	WITHOUT EYE PROTECTION
FIBER OPTIC TIP	1.50	14.5° (+/- 1°)	77 in / 196 cm
PBM 25 mm	1.50	4.5° (+/- 1°)	244 in / 620 cm
PBM 7 mm	1.50	68° (+/- 1°)	16 in / 42 cm
PBM 3 mm	1.50	68° (+/- 1°)	16 in / 42 cm

Table 1: NOHD (INCHES/CM)

NEVER POINT THE LASER TIP DIRECTLY AT THE FACE, EYES, OR SKIN OF ANYONE WHILE EMITTING ENERGY.

EMERGENCY SHUTDOWN OPTIONS:

Perform any of these actions to terminate laser emissions in the event of a real or perceived emergency:



Press the emergency "STOP" button.



Remote Interlock open circuit deactivates the laser (Remote Interlock switch provided by request)



Press the "ON/OFF" button.



Touch the ACTIVE/STBY Guided Touch Interface selection



Release your foot from the activation pedal

Gemini EVO 810+980 Soft Tissue Laser

Dimensions of Laser Unit	7.5" (L) x 5.7" (W) x 8.2" (H) - 19 cm (L) x 14.5 (W) x 21 cm (H)				
Dimensions of Activation Pedal:	6.4" (L) x 4.2" (W) x 5.0" (H) - 16.5 cm (L) x 10.8 cm (W) x 13.0 cm (H)				
Weight Laser Unit:	2.8 lbs - 1.2 Kg Weight Activation Pedal: 0.6 lbs - 0.2 Kg				
Laser classification:	Class IV laser device				
Delivery system:	Optical Fiber				
Wavelength:	810 nm or 980 nm ± 10 nm Dual Wavelength ± 10 nm (50% @ 810 nm / 50% @ 980 nm)				
Maximum average power:	810 nm @ 2.0 Watts ± 20% 980 nm @ 2.0 Watts ± 20% Dual Wavelength @ 2.0 Watts ± 20% Peak: Up to 100 W				
Aiming beam wavelength:	650 ± 10 nm				
Aiming beam power:	2 mW max				
Beam divergence:	254 mrad				
Power range:	0.1 Watt to 2.0 Watts Average				
Pulse frequency:	20 - 800 Hz				
Pulse width:	0.05 ms				
Duty cycle:	0.1% - 4%				
Voice confirmation:	YES				
Power requirements:	Input: 100-240 VAC @ 50 to 60 Hz - 1.5 A Output: 18 V DC, 3.6 A, 65 W				
Battery:	14.4 V Rechargeable Lithium-ion				
Wireless frequency:	Bluetooth at 2.4 GHz				
	Wi-Fi: 2.4 GHz / WPA2, WPA-Enterprise				
Maximum Operating Altitude:	5,000 meters or 16,404 feet				
The Gemini EVO IEC 60825-1 / EN/S 60601-	810+980 soft tissue laser complies with the following: 1 IEC 60601-1-2 IEC 60601-2-22 21 CFR 1040.10 and 1040.11				

FCC parts 15 and 18 (47 CFR)

CALIBRATION

Re-calibration is recommended every 12 months in order to assure accuracy of optical output power. The Gemini EVO 810+980 soft tissue laser may be returned to the manufacturer for re-calibration, which you can arrange by contacting your distributor. Certain government or corporate entities may require calibration certificates which can also be provided by the manufacturer. A factory calibration record and certificate should be downloaded from your Gemini EVO Dashboard.

ADVERSE EFFECTS

If used properly, there are no known adverse effects of using the Gemini EVO 810+980 soft tissue laser. Please thoroughly read and understand all Warnings, Precautions, and Contraindications in this manual prior to use. In the event the laser malfunctions due to exposure to certain environment conditions, magnetic fields, external electrical influences, electrostatic discharge, pressure or variations in pressure, accelerations, and any potential thermal ignition sources, discontinue use and follow the instructions in the service and troubleshooting section of this manual. Additional measures may be necessary such as reorienting or relocating the device.

No separate equipment is recommended to be used to assess the favorable conditions which are acceptable for treatment or to assess the unfavorable conditions which would render a treatment unacceptable or hazardous.

Maximum LASER OUTPUT of laser radiation with the magnitudes of cumulative measurement uncertainty and any expected increase in the measured quantities after manufacture is stated as the standard uncertainty of measurement.

WIRELESS INTERFERENCE

This equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. To determine if this equipment causes harmful interference to radio or television reception, turn the equipment off and on.

ALL OTHER CONDITIONS

In the event that the Gemini EVO 810+980 soft tissue laser fails to operate correctly, and your distributor representative is unable to help, the system will need to be returned to the manufacturer for repair. There are no user-repairable parts available for the device. It is recommended that the system be returned in its original shipping box. If not available, one can be requested at the time you discuss your service incident with your distributor representative.

TROUBLESHOOTING GUIDE

Why is it difficult to see the red aiming light or why is it barely visible?

CAUSE: 1. The laser is in STBY mode.

- 2. The aiming light under MENU is turned low or off.
- 3. The fiber optic cable might be damaged or broken.
- 4. The safety eye wear makes the red light less visible.

SOLUTION: 1. Aiming light is only visible under ACTIVE mode. Select ACTIVE in the Guided Touch Interface.

- 2. Select MENU, then AIMING. With UP/DOWN arrows adjust the aiming light intensity.
- 3. Contact Technical Support.
- 4. The safety eye wear will naturally diminish the intensity of the red aiming beam if compared to the naked eye.

Why is my laser not connecting to Wi-Fi?

CAUSE:

- 1. The unit has never been connected to a wireless network before.
 - 2. The password for my local network changed and I can't connect to the Wi-Fi.
 - 3. I am not able to find my network while connecting to the Wi-Fi via the app.
 - 4. The password for the Wi-Fi network is being entered incorrectly or with a blank space.

SOLUTION: 1. Download the Gemini EVO laser mobile app and follow the instructions to make the Wi-Fi connection between your local network and your Gemini EVO device.

- 2. Under the Gemini EVO app, select "Add a Device" and follow the instructions. This will enable you to connect with your current network again with a new password.
- 3. Contact your network administrator to make sure your local network is broadcasting the Wi-Fi name. Sometimes for security purposes this feature is enabled, preventing outside users to see your local network.
- 4. Ensure password is entered correctly without any spaces.

The display is dim or not illuminated?

CAUSE:

- 1. My unit display is barely visible but I can see some of the icons on the top part of the display.
 - 2. Blank display: The unit lost power.
 - 3. Only part of my display is visible.

SOLUTION:

- 1. It is likely your unit went into sleep mode. Simply touch anywhere on the Guided Touch Interface to wake up your Gemini EVO laser.
- 2. Power the unit on. The unit may have lost power due to low battery in which case the AC/DC power supply should be plugged in.
- 3. The unit needs to be sent back to the manufacturer for repair. Contact your distributor representative for return instructions.

TROUBLESHOOTING GUIDE

My activation pedal is not working

- **CAUSE:** 1. Unit is not in ACTIVE mode.
 - 2. I am ACTIVE but my activation pedal is not working.
 - 3. Why is my activation pedal vibrating?

SOLUTION:

- 1. Make sure you select ACTIVE and tap the activation pedal once to wake it up.
 - 2. Even under ACTIVE mode, you need to tap once at the pedal to wake it up.
 - 3. Gemini EVO laser has a Haptic Sense (HS) feature that enables you to sense small vibrations when the activation pedal is active. Under MENU and Haptic Sense (HS) you can select the intensity of the vibrations or completely turn it off.

Photobiomodulation settings are not working and sounds strange

CAUSE:

- 1. After selecting treatment time, nothing happens.
- 2. After selecting a treatment time, the activation pedal is not activating the start of the procedure.
- 3. The unit sounds strange when using the 3 mm and 7 mm tips.

SOLUTION:

- 1. Once treatment time in seconds is selected, you need to select ACTIVE once more to enable the procedure.
 - 2. If your activation pedal is not awake, tap once to turn it on. Then it will activate the procedure and enable multiple procedures consecutively.
 - 3. Due to the low pulse modulation of power for the 3 mm and 7 mm tips, it is perfectly normal to hear the laser emit a deep pulse sound.

General Questions

For a complete set of troubleshooting questions, videos and images on how your Gemini EVO laser should operate, please go to <u>dashboard.geminievo.com</u> and select the Support tab. Additional information on setup, usability, and settings can be found on www.geminievo.com.

For technical support and live troubleshooting with a technician, please contact our equipment support team at equipment.repair@ultradent.com or 1.801.553.4574.

ERROR MESSAGES

An error message will flash where the Power Indicator is normally displayed.

Software Update Fail



Overheating



The GEMINI EVO 810+980 soft tissue laser is designed to perform periodic software updates. If during an update internet connection is lost or unstable, the update may fail. The 'UF' error message shows on the display and user can restart laser unit to re-establish connectivity and resume the update.

The GEMINI EVO 810+980 soft tissue laser is designed to perform surgical procedures at a specific temperature. High power and long procedures may cause the laser unit to heat up to the temperature limit.

Please wait a few minutes for the temperature to decrease before resuming normal operations.

Activation Pedal Disconnected



The GEMINI EVO 810+980 soft tissue laser is equipped with a long range Bluetooth chip.

Please check the two AA batteries in the activation pedal and replace if needed. Press the activation pedal once to reactivate the connection with the laser unit. The Bluetooth icon on the activation pedal will turn blue, and the Bluetooth symbol will appear on the display, when the laser is in ACTIVE mode and the activation pedal is successfully connected.

Display Communication Error



assistance.

Calibration Error



electroluminescent display fail to turn on. Please plug the AC/DC power supply into the laser unit and restart the system by

There will be audible sound "Display Communication Error" should the glass

pressing the ON/OFF button. If the problem persists, contact technical support for assistance.

The GEMINI EVO is capable of sensing the internal laser light with a photodetector. If for any reason your Gemini EVO device goes out of calibration range, the CE ERROR message will be visible. At this time, we recommend contacting our technical support team as the unit might need to be sent for calibration. The certificate of calibration of your Gemini EVO can be downloaded under the Gemini EVO Dashboard/Support Menu.

OVERVIEW AND RECOMMENDATIONS

The Gemini EVO 810+980 soft tissue laser has been developed with Cybersecurity integrated throughout the total-productlifecycle. Activities such as threat modeling, requirements documentation, penetration testing, and post market management planning have been executed for the device.

The Gemini EVO 810+980 soft tissue laser has been developed with Cybersecurity capabilities such as Transport Layer Security Protocols, code signing, device credentials with individual X.509 certificates and least privileged model policies using industry standard algorithms.

The Gemini EVO 810+980 soft tissue laser supports the ability to provide Cybersecurity routine updates and patches remotely. The device provides notification on the Guided Touch Interface, mobile app and web interface (dashboard) when a new update is available. The user then has the ability to install the update directly into the device with any of these options.





A manufacturers statement on medical device security (MDS2) is available upon request for the Gemini EVO 810+980 soft tissue laser.

Electromagnetic Compatibility

Notice: The Gemini EVO 810+980 soft tissue laser complies with all requirements for electromagnetic compatibility according to IEC 60601-1-2: 2014.



CAUTION: Medical electrical equipment needs special precautions regarding electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided in the following tables.

Portable and mobile Radio Frequency (RF) communications equipment can affect medical electrical equipment.



WARNING: The use of accessories, other than those specified, except those supplied or sold by Ultradent Products, Inc., as replacement parts for internal or external components, may result in increased EMISSIONS or decreased IMMUNITY of the Gemini EVO 810+980 soft tissue laser.

Accessories: Medical grade power supply - Maximum length 6ft (1.8 meters)

Activation Pedal: Wireless Bluetooth at 2.4 GHz

Description: The activation pedal uses Bluetooth BLE 4.0 technology, which operates at a frequency of 2402 to 2480 MHz with TX power of +0 dBm and RX sensitivity of -94.8 dBm and uses GFSK modulation. The pedal is pre-configured by the manufacturer to only sync with the Gemini EVO laser unit that has a matching unique identifier. This prevents interference with other RF wireless technologies that may be present.

As a safety measure, any termination of the Bluetooth link between the activation pedal and the laser unit during use will result in the immediate termination of any laser emission. Reference the Service and Troubleshooting section of this manual should you encounter any connectivity issues between the laser unit and the activation pedal.

This device has passed wireless coexistence testing with common devices found in dental practices at a minimum separation distance of 30 cm.

Definitions

Emission (electromagnetic): When electromagnetic energy is emitted by a source.

Interference Immunity: The ability of a device or system to work without errors even if there is electromagnetic interference.

Immunity Level: The maximum level of a certain electromagnetic interference that affects a particular device or system, where the device or system remains operative with a certain level of performance.

Electromagnetic Emission

The Gemini EVO 810+980 soft tissue laser is intended for operation in the electromagnetic environment specified below. The customer or user of the Gemini EVO laser should make sure that it is used in such an environment.

EMISSION TEST	COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
RF emissions according to CISPR 11	GROUP 1	The Gemini EVO laser uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions according to CISPR 11	CLASS A	The Gemini EVO laser is suitable for use in all
Harmonic emissions according to IEC 61000-3-2	CLASS A	establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic
Voltage fluctuations/flicker emissions according to IEC 61000-3-3	COMPLIES	

Interference Immunity

The Gemini EVO laser is intended for operation in the electromagnetic environment specified below. The customer or user of the Gemini EVO laser should make sure that it is used in such an environment.

INTERFERENCE IMMUNITY TEST	IEC 60601-1-2 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT GUIDANCE
Electrostatic discharge (ESD) according to IEC 61000-4-2	+/- 2, +/-4, +/- 6, +/-8 kV contact discharge +/- 2, +/-4, +/-8 kV, +/-15 kV air discharge	+/- 2, +/-4, +/- 6, +/-8 kV contact discharge +/- 2, +/-4, +/-8 kV, +/-15 kV air discharge	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 50%.
Electrical fast transient/ burst according to IEC 61000-4-4	100 kHz repetition +/- 2 kV for power supply lines 100 kHz repetition +/- 2 kV for power input/output lines	100 kHz repetition +/- 2 kV for power supply lines Not applicable	The quality of the line power supply should be that of a typical commercial or hospital environment.
Surge voltages according to IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode voltage	± 1 kV differential mode ± 2 kV common mode voltage	The quality of the line power supply should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and variations of the power supply according to IEC 61000-4-11	Voltage (VAC) 100, 240 over 0% residual with ½ cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 0% residual with 1 cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 70% residual with 25 cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 0% residual with 250 cycles on a phase angle of 0°/90°/180°/270°	Voltage (VAC) 100, 240 over 0% residual with ½ cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 0% residual with 1 cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 70% residual with 25 cycles on a phase angle of 0°/90°/180°/270° Voltage (VAC) 100, 240 over 0% residual with 250 cycles on a phase angle of 0°/90°/180°/270°	The quality of the line power supply should be that of a typical commercial or hospital environment. If the user of the Gemini EVO laser requires it to continue functioning following interruptions of the power supply, it is recommended to have the Gemini EVO laser powered by an uninterruptible power supply or a battery.
Magnetic field of power frequencies (50/60 Hz) according to IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment

IMMUNITY TEST	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT GUIDANCE
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 3 V/m	Portable and mobile radio equipment must not be used within the recommended working clearance from the Gemini EVO laser and its cables, which is calculated based on the equation suitable for the relevant transmission frequency. Recommended separation distance $d= [1.2] \sqrt{P}$ $d= [1.2] \sqrt{P}$ at 80 MHz to 800 MHz $d= [2.3] \sqrt{P}$ at 800 MHz to 2.5 GHz Where P is the nominal transmitter output in Watts (W) specified by the transmitter manufacturer and d is the recommended working clearance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ² should be less than the compliance level ³ in each frequency range. Interference is possible in the vicinity of equipment bearing the following graphic symbol.

NOTES

¹ The higher frequency range applies at 80 MHz and 800 MHz.

² Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast, cannot be predicted theoretically with accuracy. An investigation of the location is recommended to determine the electromagnetic environment resulting from stationary HF transmitters. If the measured field strength in the location in which the Gemini EVO laser is used exceeds the applicable RF compliance level above, the Gemini EVO laser should be observed to verify normal operation. If unusual performance characteristics are observed, it may be necessary to take additional measures such as reorientation or repositioning of the Gemini EVO laser.

³ Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

WORKING CLEARANCES

The Gemini EVO laser is intended for operation in an electromagnetic environment where radiated HF interference is checked. The customer or the user of the Gemini EVO laser can help prevent electromagnetic interference by duly observing the minimum distances between portable and/or mobile RF communication devices (transmitters) and the Gemini EVO laser. These values may vary according to the output power of the relevant communication device as specified below.

RATED MAXIMUM OUTPUT	WORKING CLEARANCE ACCORDING TO TRANSMISSION FREQUENCY [M]				
[W]	150 KHZ TO 80 MHZ	80 MHZ TO 800 MHZ	800 MHZ TO 2.5 GHZ		
	d= [1.2] √P	d=[1.2] √P	d= [2.3] √P		
0.01	0.12	0.12	0.23		
0.1	0.38	0.38	0.73		
1	1.2	1.2	2.3		
10	3.8	3.8	7.3		
100	12	12	23		

For transmitters whose maximum nominal output is not specified in the above table, the recommended working clearance in meters (m) can be determined using the equation in the corresponding column, where P is the maximum nominal output of the transmitter in Watts (W) specified by the transmitter manufacturer.

Remark 1: The higher frequency range applies at 80 MHz and 800 MHz.

Remark 2: These guidelines may not be applicable in all cases. The propagation of electromagnetic waves is influenced by their absorption and reflection by buildings, objects, and persons.

LABELING



EMERGENCY TERMINATION OF LASER EMISSIONS

The Gemini EVO 810+980 soft tissue laser has been designed with several methods to terminate emission of laser energy in emergency situations.

These methods include a power button (ON/OFF) and the emergency (STOP) button located at the front of the laser unit.



LABELING

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	MANUFACTURER INDICATES WHICH COMPANY MANUFACTURES		SHIP VERTICAL, WITH ARROWS POINTED UPWARD
	DATE OF MANUFACTURE INDICATES THE DATE AND YEAR OF MANUFACTURE		FRAGILE - HANDLE WITH CARE
PN REF	CATALOG PART NUMBER INDICATES THE MANUFACTURER PART NUMBER.		DO NOT USE IF PACKAGE IS DAMAGED
SN	SERIAL NUMBER INDICATES SERIAL NUMBER FOR THE PRODUCT PART	0°C 32°F 40°C 104°F	RECOMMENDED STORAGE TEMPERATURE
	OPTICAL FIBER APPLICATOR	70kPa	ATMOSPHERIC PRESSURE LIMITATION
	LASER APERTURE INDICATES WHERE LASER ENERGY COMES OUT	95% 10%	RELATIVE HUMIDITY RANGE
CALITON: CLABALABOR REASTAGNANCE, OPENIA AND AND AND AND AND AND AND AND AND AND	WARNING INDICATES POSSIBLE EXPOSURE TO BOTH RED AND INFRARED LASER RADIATION		KEEP AWAY FROM HEAT/SUNLIGHT
<i>R</i>	PRESCRIPTION STATEMENT FEDERAL LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A DENTIST OR PHYSICIAN OR OTHER LICENSED MEDICAL PRACTITIONER		KEEP DRY

LABELING



WARRANTY

Your Gemini EVO laser comes with a 2-year factory warranty. Extended warranty can be purchased and warranty certificates can be downloaded by accessing your **dashboard** page at <u>dashboard.geminievo.com</u> or under the warranty icon in the iOS and Android apps.





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