

VERATHON GLIDESCOPE GO 2 OPERATION & MAINTENANCE MANUAL





GlideScope® Go 2

Operations & Maintenance Manual

GlideScope
verathon

GlideScope Go 2

Operations & Maintenance Manual

Effective: August 22, 2023

Caution: Federal (United States) law restricts this device to sale by or on the order of a physician.

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Information in this manual may change at any time without notice. For the most up-to-date information, see the documentation available at verathon.com/service-and-support.

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Important Information

Product Description

GlideScope Go 2 is a handheld video laryngoscope system designed to deliver clear airway views, both directly and indirectly, facilitating rapid intubation. The reusable 3.5-inch tilting color monitor and rechargeable battery can be fully submerged for cleaning. Available user settings include auto-record, auto-shutdown, and content display, supporting a more customized user experience. This system integrates with the Spectrum QC product portfolio offering fully disposable blades that can be swapped without powering down the monitor. It also integrates with the GlideScope Video Baton QC Large, which reduces electronic waste through the use of disposable Stats. GlideScope Go 2 is ideal for working under rugged conditions, for routine and difficult airways, and in a wide range of patients and clinical settings.

Statement of Intended Use

The GlideScope Go 2 System is intended for use by qualified medical professionals to obtain a clear, unobstructed view of the airway and vocal cords for medical procedures.

Statement of Prescription

Federal (United States) law restricts this device to sale by or on the order of a physician.

Notice to All Users

The system should be used only by individuals who have been trained and authorized by a physician, or by health care providers who have been trained and authorized by the institution providing patient care. Verathon recommends that all users do the following:

- Read the manual before using the instrument
- Obtain instruction from a qualified individual
- Practice using the video laryngoscope on a mannequin before clinical use
- Acquire clinical training experience on patients without airway abnormalities

Warnings & Cautions

Warnings indicate that injury, death, or other serious adverse reactions may result from use or misuse of the device. *Cautions* indicate that use or misuse of the device may cause a problem, such as a malfunction, failure, or damage to the product. Throughout the manual, pay attention to sections labeled *Important*, as these contain reminders or summaries of the following cautions as they apply to a specific component or use situation. Please heed the following warnings and cautions.

Warnings: Use



WARNING

Before every use, ensure that the instrument is operating correctly and has no sign of damage. Do not use this product if the device appears damaged. Refer servicing to qualified personnel.

Always ensure that alternative airway management methods and equipment are readily available.

Report any suspected defects to Verathon Customer Care. For contact information, visit verathon.com/service-and-support.



WARNING

No modification of this equipment is allowed.



WARNING

When you are guiding the endotracheal tube to the distal tip of the video laryngoscope, ensure that you are looking in the patient's mouth, not at the screen. Failure to do so may result in injury, such as to the tonsils or soft palate.



WARNING

The area surrounding the camera in the video laryngoscope can contact the patient and can exceed 41°C (106°F) as part of normal operation. Patient contact with this area of the blade during intubation is unlikely, as it would cause an obstruction of the camera view. Do not maintain continuous contact with this area of the blade for longer than 1 minute; it is possible to cause thermal damage such as a burn to the mucosal tissue.

Warnings: Reprocessing



WARNING

Because the product may be contaminated with human blood or body fluids capable of transmitting pathogens, all cleaning facilities must be in compliance with (U.S.) OSHA Standard 29 CFR 1910.1030 "Bloodborne Pathogens" or an equivalent standard.



WARNING

Ensure that you follow the manufacturer's instructions for handling and disposing of cleaning, disinfection, or sterilization solutions.



WARNING

Do not reuse, reprocess, or resterilize single-use components. Reuse, reprocessing, or resterilization may create a risk of contamination of the device.

Warnings: Product Safety



WARNING

Electric shock hazard. Do not attempt to open the system components. This may cause serious injury to the operator or damage to the instrument and voids the warranty. Contact Verathon Customer Care for all servicing needs.



WARNING

Use of accessories and cables other than those specified or provided by Verathon may cause this system to experience electromagnetic malfunctions, including increased emissions or decreased immunity. This may cause improper operation, procedure delays, or both.



WARNING

To reduce the risk of electrical shock, use only the accessories and peripherals recommended by Verathon. Use of accessories and cables other than those specified or provided by Verathon may result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and may result in improper operation.



WARNING

The charging cradle should be used only for charging the GlideScope Go 2 monitor. Any use of the charging cradle other than charging the GlideScope Go 2 monitor can cause malfunctions or equipment damage.



WARNING

Verathon has conducted no analysis to establish the compatibility of the system with environments where magnetic resonance imaging (MRI) equipment is installed. Because of this, the owner of the system must exclude it from any magnetic resonance (MR) environment.

Cautions



CAUTION

The monitor must be cleaned before initial use.



CAUTION

Medical electrical equipment requires special precautions regarding electromagnetic compatibility (EMC) and must be installed and operated according to the instructions in this manual. For more information, see the Electromagnetic Compatibility section.



CAUTION

This product may only be cleaned or disinfected by using the approved processes provided in this manual. Cleaning and disinfection methods listed are recommended by Verathon based on efficacy or compatibility with component materials.



CAUTION

Ensure the monitor's USB-C port is dry before connecting a power adapter or charging cradle. If the USB-C port is not dry when a power adapter or charging cradle is connected to it, electric shock, equipment damage, or system malfunctions can occur.



CAUTION

Ensure that you do not use any abrasive brushes, pads, or tools when cleaning or disinfecting the video monitor screen. The screen can be scratched, permanently damaging the device.



CAUTION

Do not submerge the charging cradle in a liquid solution. Submerging the charging cradle in a liquid solution can cause system malfunctions or damage to the monitor or the power adapter.



CAUTION

Ensure that the monitor is clean and free of contamination before placing it in the charging cradle.



CAUTION

The following part numbers are not compatible with this system:

GlideScope blades:

- 0574-0202 (Sterile Spectrum Miller S0)
- 0574-0216 (Non-Sterile Spectrum Miller S0)
- 0574-0203 (Sterile Spectrum Miller S1)
- 0574-0217 (Non-Sterile Spectrum Miller S1)
- 0574-0165 (Sterile Spectrum LoPro S1)
- 0574-0218 (Non-Sterile Spectrum LoPro S1)
- 0574-0166 (Sterile Spectrum LoPro S2)
- 0574-0219 (Non-Sterile Spectrum LoPro S2)
- 0574-0201 (Sterile Spectrum LoPro S2.5)
- 0574-0220 (Non-Sterile Spectrum LoPro S2.5)
- 0574-0194 (Sterile Spectrum LoPro S3)
- 0574-0221 (Non-Sterile Spectrum LoPro S3)
- 0574-0195 (Sterile Spectrum LoPro S4)
- 0574-0222 (Non-Sterile Spectrum LoPro S4)
- 0574-0187 (Sterile Spectrum DirectView MAC S3)
- 0574-0223 (Non-Sterile Spectrum DirectView MAC S3)
- 0574-0188 (Sterile Spectrum DirectView MAC S4)
- 0574-0224 (Non-Sterile Spectrum DirectView MAC S4)
- 0570-0382 (GlideScope Video Baton 2.0, Large (size 3-4))

BFlex bronchoscopes:

- All part numbers

Refer to part numbers when assessing whether a blade is compatible with the system. For more information about compatible components and accessories, see the System Parts and Accessories section.



CAUTION

Do not use a knife or other sharp instrument to open packaging containing single-use video laryngoscopes, and do not use such components if their packaging is damaged.



CAUTION

European Union only: If any serious incident occurs during use of this product, you must immediately notify Verathon (or its authorized representative), the Competent Authority of the Member State where the incident occurred, or both.

Introduction

System Overview

The GlideScope Go 2 system features a small handheld monitor that can use either GlideScope Spectrum QC video laryngoscopes or a GlideScope Video Baton QC Large with GlideScope GVL Stats 3 and 4.

GlideScope Spectrum QC video laryngoscopes are durable, single-use plastic blades that must be disposed of after one use. Single-use blades are identified by an S in their name, such as Hyperangle S4. These blades incorporate the following technologies:

- Dynamic Light Control—Enables optimization of image quality and brightness at the vocal cords.

GVL Stats are durable, transparent, single-use laryngoscope shells that fit over a flexible, reusable Video Baton QC Large. The Stats contain no active components, so waste is kept to a minimum. Although they are single-use devices, they do not have an S in their names.

Figure 1. GlideScope Go 2 Monitor



System Parts & Accessories

Table 1. Required System Components

REQUIRED PARTS & ACCESSORIES	
<p>GlideScope Go 2 monitor</p> 	<p>Power Adapter (0800-0665)</p> 
One or more of the following scope styles:	
<p>Single-Use Blades*</p> 	<p>Video Batons and Single-Use Stats*</p> 

Table 2. Optional System Components

OPTIONAL PARTS & ACCESSORIES		
<p>Charging Cradle (0570-0433)†</p> 	<p>USB-C-to-standard hybrid USB flash drive.</p> 	<p>GlideRite Stylets‡</p> 

* For a full list of compatible video scopes, please see the *GlideScope Video Laryngoscopes Operations & Maintenance Manual* (part number 0900-4940)




















† If you are mounting the cradle to a vertical surface, ensure this is done by someone qualified to do so.

‡ For a full list of compatible stylets, please see the *GlideRite DLT Stylet Operations & Maintenance Manual* (part number 0900-4841) and the *GlideRite Rigid Stylet Operations & Maintenance Manual* (part number 0900-4686)

Buttons, Icons, & Connections

The following tables provide general information regarding the buttons and icons on the monitor.

Table 3. Monitor Buttons and Icons

BUTTON	FUNCTION
	Power: This is a physical button located on the top of the monitor.
	Snapshot: Takes a photo of the video feed. While the photo is being saved, the icon changes to the following icon:  Saving snapshot. Icon returns to standard Snapshot icon when complete.
	Record (toggle): Records the video feed. While recording, and depending on the recording status and mode, the record button's icon changes to one of the following:  Waiting for system. This can take up to 5 seconds.  Video is recording. Tap to end recording.  A recording error has occurred.
	Dynamic Light Control (DLC): Toggles the DLC feature. Only displays when the attached blade supports DLC.  DLC Off: Dynamic Light Control is turned off.  DLC On: Dynamic Light Control is turned on.  DLC Error: An error occurred while setting the Dynamic Light Control.
	More: Contains the Settings menu icon and DLC icon.
	Settings: Opens the Settings menu.
	Battery Status: Indicates the remaining battery power and the estimated time remaining.  Red battery: Less than 10 minutes of battery life remaining.  Gold battery: 11 to 25 minutes of battery life remaining.  Gray battery: More than 26 minutes of battery life remaining.
	Back: Returns to the previous screen.
	Forward: Moves to the next screen or setting.







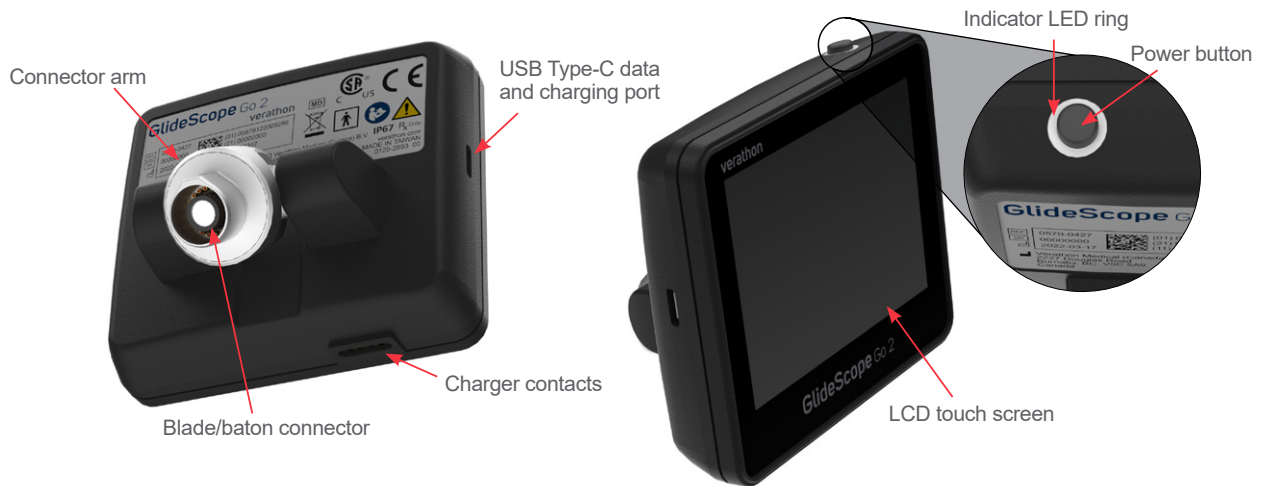
BUTTON	FUNCTION
	Cancel: Closes the current window or message, canceling any setting change that was in progress.
	Save or Confirm: Saves and closes the current setting or acknowledges and closes a message.
	Toggle (on): Indicates the associated setting is turned on.
	Toggle (off): Indicates the associated setting is turned off.
	Display text: Shows secure text while typing
	Hide text: Hides secure text while typing

Figure 2. Go 2 Monitor



System Features

Home Screen

The Home screen displays system information and provides access to options and menus.

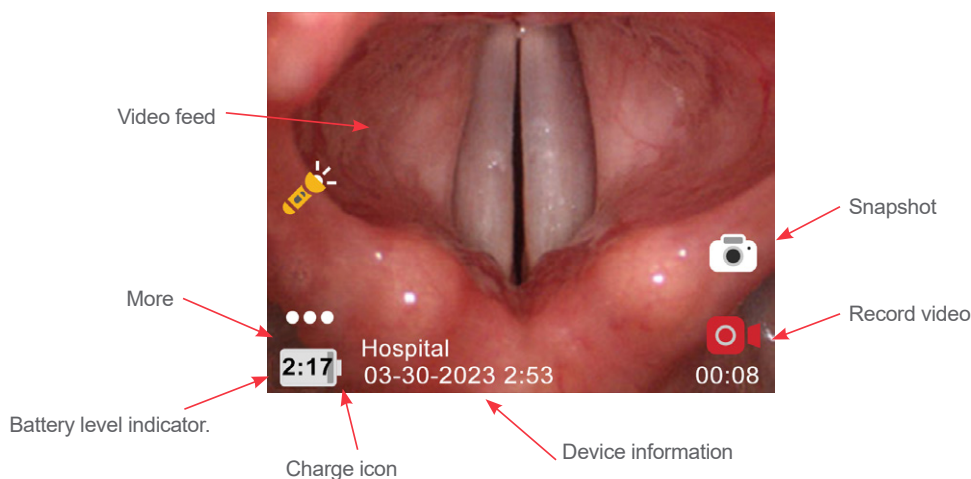




Table 4. Home Screen

FEATURE	FUNCTION
Video feed	Displays the video feed from the attached camera.
More	Contains the Settings  button and, when available, the Dynamic Light Control  button.
Battery level indicator	Displays the battery level and estimated time remaining.
Device information	Displays the device name, date, and time overlay. This information is included on snapshots and video recordings.
Record video	Start and stops video recording.
Snapshot	Takes a photo of the video feed.

Setting Up



Please read the [Warnings & Cautions](#) section before performing the following tasks.

Before you can use the system for the first time, you must inspect the components, set up the system, and perform a functional test as recommended by Verathon. Complete the following procedures:

1. **Perform Initial Inspection**—Inspect the system for any obvious physical damage that may have occurred during shipment.
2. **Charge the Battery**— Verathon recommends that you charge the battery fully prior to first use. You cannot use the system while the battery is charging.
3. **Complete the Setup Wizard (Optional)** The Setup Wizard walks you through an initial system configuration with settings such as the date, time, and system security code.
4. **Configure User Settings (Optional)**—Enter data customized to your facility, and configure settings such as the date, time, video timestamps, and other administrative settings.
5. **Insert the Video Baton into the Stat (Optional)**—Prepare the video baton for use.
6. **Attach the Blade or Baton**—Connect the video baton or blade to the monitor.
7. **Perform a Functional Check**—Before you use the device for the first time, perform a functional check to ensure that the system is working properly.

Procedure 1. Perform Initial Inspection

1. Verify that you have received the appropriate components for your system by referring to the packing list included with the system.
2. Inspect the components for damage.
3. If any of the components are missing or damaged, notify the carrier and either Verathon Customer Care or your local representative.
4. Fully charge the monitor battery.

Procedure 2. Charge the Battery



Please read the [Warnings & Cautions](#) section before performing the following tasks.

The GlideScope Go 2 monitor includes an internal lithium battery. Verathon recommends that you charge the battery fully prior to first use.

Under normal operating conditions, a fully charged battery lasts approximately 100 minutes before it needs to be recharged. For optimal battery life, ensure that the battery is fully charged before you use the monitor. You should charge the battery at temperatures between 10 and 40°C (50 and 104°F).

An estimate of the time remaining is shown on the battery icon. As the battery is depleted, the battery status bar shrinks, changing color at certain levels.

For more about the battery and charging conditions, see [Battery Specifications](#) on page 32.

Figure 3. Battery Status Icons



Red battery: Less than 10 minutes of battery life remaining.



Gold battery: 11 to 25 minutes of battery life remaining.



Gray battery: More than 26 minutes of battery life remaining.

1. If charging directly from the USB-C port, ensure the port on the monitor is dry, and then connect a Verathon approved power adapter to the USB-C port on the monitor.

Note: Using an unapproved power adapter may not charge the battery correctly. Please replace the unapproved power adapter with the power adapter provided with the system.

If charging with the charging cradle, ensure the cradle's power adapter is connected to a hospital-grade power outlet, and then place the monitor in the cradle.



2. Allow the battery to charge until the indicator LED is solid green. See the following table for a summary of how the indicator LED indicates the charge level and condition of the battery.



Table 5. Indicator LED Battery Charge Descriptions

LED STATUS	CONNECTED TO EXTERNAL POWER		NOT CONNECTED TO EXTERNAL POWER	
	System On	System Off	System On	System Off
Solid green	Nearly full		—	—
Solid orange	Partially charged		—	—
Solid red	Nearly empty			—
Blinking red	Over temperature or not present			
Off	Not charging			

3. The monitor is not operational while charging. If the monitor is connected to power while turned on, a notice displays on the screen, and then the monitor automatically shuts down after 5 seconds.



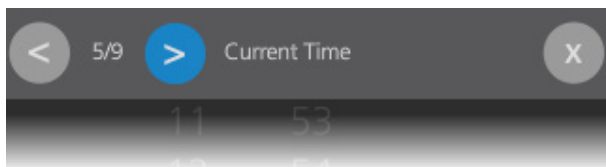
4. Remove the monitor from the cradle, and then press the **Power** button to turn the monitor on.

Note: Do not attach a blade or baton at this time.

Procedure 3. Complete the Setup Wizard (Optional)

The first time the monitor is turned on, a setup wizard guides you through some initial settings. If the setup wizard has already been completed, or you decide to skip the setup wizard, all settings can be modified in [Configure User Settings \(Optional\)](#) on page 18.

The setup wizard step is shown at the top of the display. Use the **Back** < and **Forward** > buttons to navigate through the wizard. To exit the wizard, tap the **Close** x button.

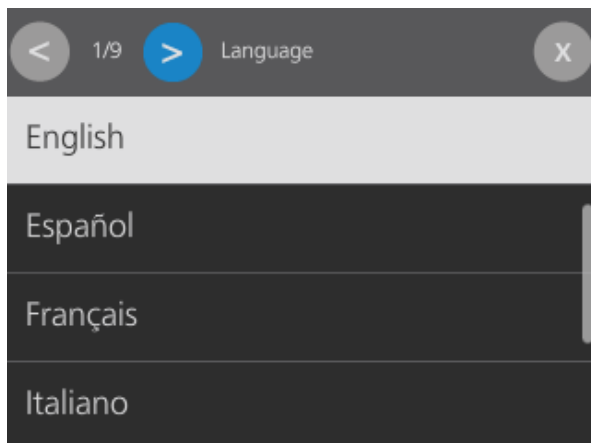


Note: You may need to scroll down to see all options within a settings page.

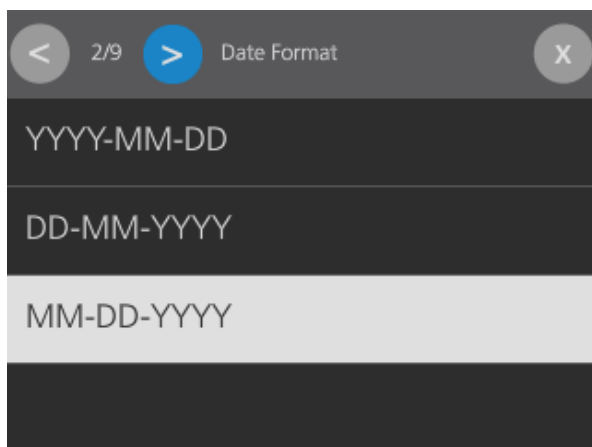
1. Tap **Start** to begin the Setup Wizard. If you do not want to complete the Setup Wizard at this time, tap **Cancel** to exit the wizard.



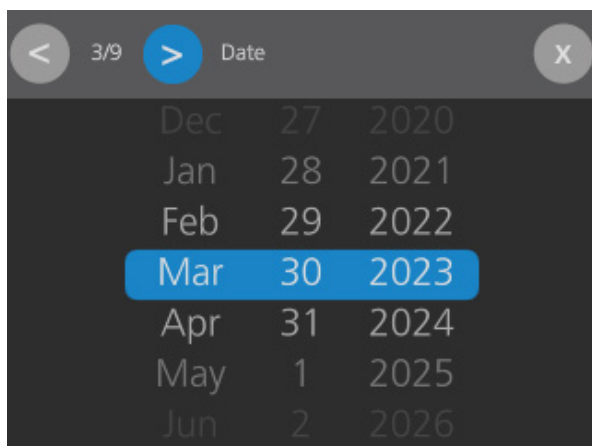
2. Select the system language, and then tap the **Forward** > button to continue.



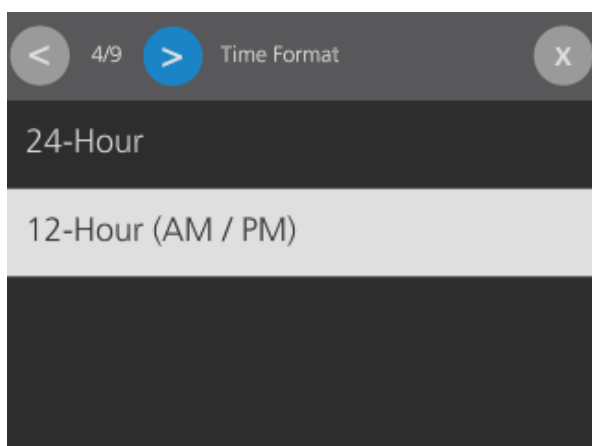
3. Select the date format, and then tap the **Forward** ➤ button to continue.



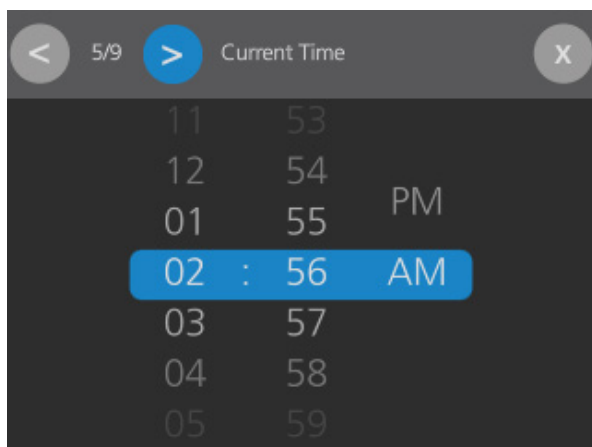
4. Set the date, and then tap the **Forward** ➤ button to continue.



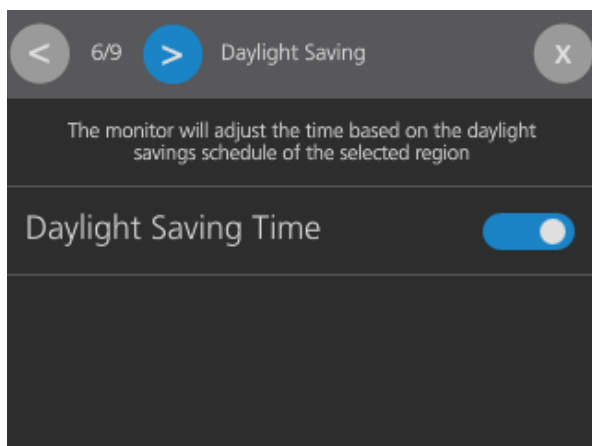
5. Select the time format, and then tap the **Forward** ➤ button to continue.



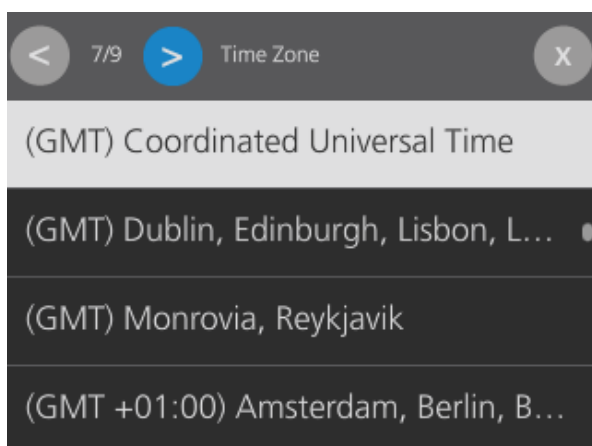
6. Set the time, and then tap the **Forward** ➤ button to continue.



7. Tap the toggle to set the daylight saving preference, and then tap the **Forward** ➤ button to continue.

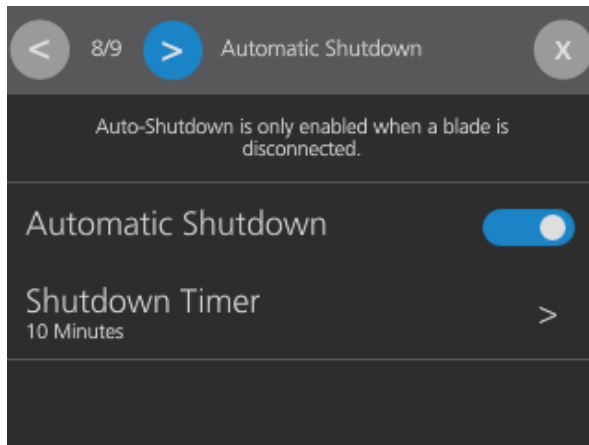


8. Set the date, and then tap the **Forward** ➤ button to continue.

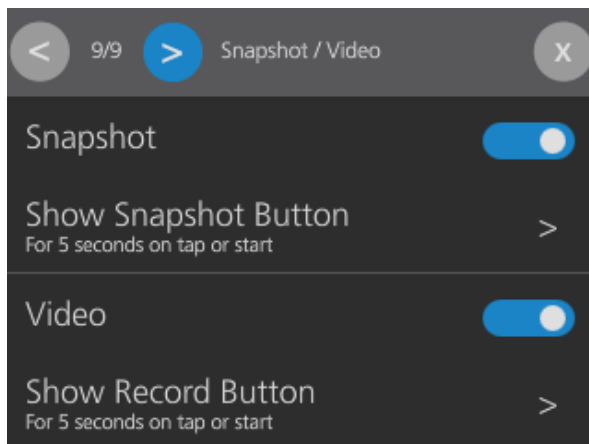


9. Tap the toggle to set the Automatic Shutdown preference. Tap **Shutdown Timer** to select the timer duration. Tap the **Forward** > button to continue.

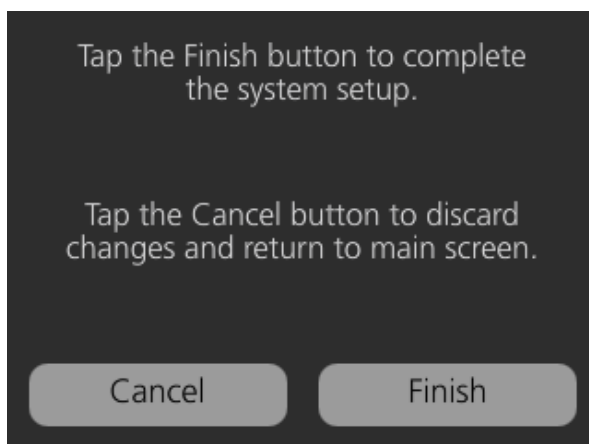
Note: Automatic Shutdown is only active when the monitor does not have a blade attached.



10. Tap the toggles to set the Snapshot and Video preferences. When these toggles are on, the Snapshot or Video buttons are displayed on the main window. Each setting has the option to display its button for 5 seconds when the screen is tapped or when the monitor is turned on, or to display it continuously. Tap the **Forward** > button to continue.



11. Tap **Finish** to save all settings and close the Setup Wizard or tap **Cancel** to discard all changes and return to the main screen.



Procedure 4. Configure User Settings (Optional)

The Settings menu allows you to configure, change, or view the following system settings and information:

Note: Some settings may be grayed out if the battery has less than 30 minutes of charge remaining. If a setting is not accessible, charge the monitor to access.



Features—Snapshot/Video, Automatic Shutdown, Snapshot Overlays, Video Overlays, Monitor Overlays, and Dynamic Light Control (DLC).

Media—Capacity, Export, and Remove.



Regional—Language, Date, and Time.

Administration—Device Name, Security Code, Reset Settings, and Import / Export Settings.

Device—Software Upgrade, Usage Statistics, and Service Log.

To access the Settings menu, from the Home screen, tap the **More** ... button, and then tap the **Settings**  button. If a security code was enabled, enter the code, and then tap the **Confirm**  button.

Note: You may need to scroll through the settings to see all options.

A setting is switched on or off by tapping its toggle to the right  (on) or left  (off). When a setting is on, additional configuration options may be available.

FEATURES

Use the Feature Settings menu to modify the Snapshot/Video, Automatic Shutdown, Snapshot Overlays, Video Overlays, Monitor Overlays, and Dynamic Light Control (DLC) settings.


- To configure **Features** settings, from the Home screen, tap the **More** ... button, tap the **Settings**  button, and then tap **Features**.

Table 6. Features Settings Menu

FEATURES MENU TREE		SETTING
Snapshot/Video	Snapshot	Toggle—Turns the Home Screen Snapshot button on or off.
	Show Snapshot Button	Show Snapshot button: <ul style="list-style-type: none">For 5 seconds on tap or startAlways
	Video	Toggle—Turns the Home Screen Record button on or off.
	Show Video Button	<ul style="list-style-type: none">For 5 seconds on tap or startAlways
	Auto Record	Toggle—Turns the Auto Record function on or off. When on, recording automatically starts if the monitor is turned on with a scope already connected, or a scope is connected after the monitor is turned on.

Table 6. Features Settings Menu

FEATURES MENU TREE		SETTING
Automatic Shutdown	Automatic Shutdown	<p>Toggle—Turns the Automatic Shutdown feature on or off.</p> <ul style="list-style-type: none"> Shutdown Timer—Can be set for 1, 5, 10, 20, and 30 minutes. <p>When enabled, and only when no scopes are connected to the monitor, the monitor shuts down automatically after the set time.</p>
Snapshot Overlays	Date	Toggle—Includes the date in Snapshot images.
	Time	Toggle—Includes the time in Snapshot images.
	Device Name	<p>Toggle—Includes the device name in Snapshot images.</p> <p>For information on setting the device name, see Administration on page 21.</p>
Video Overlays	Date	Toggle—Includes the date in video recordings.
	Show Date	<ul style="list-style-type: none"> For 5 seconds Always
	Time	Toggle—Includes the time in video recordings.
	Show Time	<ul style="list-style-type: none"> For 5 seconds Always
	Device Name	<p>Toggle—Includes the device name in in video recordings.</p> <p>For information on setting the device name, see Administration on page 21.</p>
	Show Device Name	<ul style="list-style-type: none"> For 5 seconds Always
Monitor Overlays	Date	Toggle—Includes the date on the Home screen.
	Show Date	<ul style="list-style-type: none"> For 5 seconds Always
	Time	Toggle—Includes the time on the Home screen.
	Show Time	<ul style="list-style-type: none"> For 5 seconds Always
	Device Name	<p>Toggle—Includes the device name on the Home screen.</p> <p>For information on setting the device name, see Administration on page 21.</p>
	Show Device Name	<ul style="list-style-type: none"> For 5 seconds Always
Dynamic Light Control (DLC)	Dynamic Light Control	Toggle—Enables optimization of image quality and brightness at the vocal cords.

MEDIA

Use the Media Settings menu to view the monitor's available storage, view the amount of storage used by images and videos, export images and videos to a USB drive, or remove images and video from the monitor.


- To configure **Media** settings, from the Home screen, tap the **More** ... button, tap the **Settings**  button, and then tap **Media**.

Table 7. Media Settings Menu

MEDIA MENU TREE		SETTING
Capacity	—	Displays available storage and the amount of storage used by images and by videos.
Export	Media	Select the media type you would like to export: <ul style="list-style-type: none"> • All snapshots and video • Snapshots only • Video only
	Range	Select the date range you would like to export: <ul style="list-style-type: none"> • Custom range—Tap to select the start and end dates • Today • Last 3 days • Last 7 days • Last 30 Days • Last 3 Months • Last 6 Months • Last 12 Months • All
	After Export	<ul style="list-style-type: none"> • Keep media • Remove exported media
	Encryption Toggle	Select whether you would like to encrypt media when exporting. If Encryption is toggled on, you will be prompted to enter a 9-digit encryption code after you click Export. For more information, see Export Media files on page 27.
Remove	Media	Select the media type you would like to remove: <ul style="list-style-type: none"> • All snapshots and video • Snapshots only • Video only
	Range	Select the date range you would like to remove: <ul style="list-style-type: none"> • Custom range—Tap to select the start and end dates • Today • Last 3 days • Last 7 days • Last 30 Days • Last 3 Months • Last 6 Months • Last 12 Months • All

REGIONAL

Use the Regional Settings menu to choose the system language, date, and time.


- To configure **Regional** settings, from the Home screen, tap the **More** ... button, tap the **Settings**  button, and then tap **Regional**.

Table 8. Regional Settings Menu



REGIONAL MENU TREE		SETTING
Language	Language	Select the system language. In the confirmation box, tap Yes to save, or Cancel to discard the change.
Date	Date	Today's date.
	Date Format	Select the date format: <ul style="list-style-type: none">• YYYY-MM-DD• DD-MM-YYYY• MM-DD-YYYY
Time	Time	Today's time.
	Time Format	Select the time format: <ul style="list-style-type: none">• 12-Hour (AM / PM)• 24-Hour
	Time Zone	Select the time zone.
	Daylight Saving Time	Toggle—Enables Daylight Saving Time.

ADMINISTRATION

Use the Administration Settings menu to set the device name, set a security code, reset the system settings, import settings from another monitor with a USB drive, or export the monitor settings to a USB drive.

- To configure **Administration** settings, from the Home screen, tap the **More** ... button, tap the **Settings**  button, and then tap **Administration**.

Table 9. Administration Settings Menu

ADMINISTRATION MENU TREE		SETTING
Device Name	Device Name	Enter a device name, and then tap the Confirm  button.
Security Code	Security Code	Enter a 4-digit security code, enter it again to confirm, and then tap the Confirm  button.
Reset Settings	Reset Settings	Tap Reset , and then tap Yes to confirm you would like to restore all device settings to the factory settings. <i>Note: This does not affect media saved on the device.</i>
Import / Export Settings	Import Settings	Connect a USB drive to the monitor that contains settings exported previously from another monitor, tap Import , and then tap Import . The monitor's settings are updated to match the settings from the USB drive.
	Export Settings	Connect a blank USB drive to the monitor, tap Export , and then tap Export . The monitor's settings are saved to the USB drive.

DEVICE

Use the Device Settings menu to see hardware and software information, upgrade the monitor software, and see or export usage statistics.

- To configure **Administration** settings, from the Home screen, tap the **More** ... button, tap the **Settings** button, and then tap **Administration**.

Table 10. Device Settings Menu

MEDIA MENU TREE		SETTING
Device Information	—	Displays hardware and software information.
Software Upgrade	Software Upgrade	Displays the current software version and the software version on a connected USB drive. Connect a Software Upgrade USB drive to the monitor, tap Upgrade , and then tap Yes . Do not disconnect the drive while the software is updating. Once the software upgrade is complete, shut-down the monitor.
Usage Statistics	Usage Statistics	Displays usage statistics. Connect a USB drive to the monitor, and then tap Export to save the usage statistics to the drive.
Service Log	—	The service log contains information for troubleshooting device errors. This information can only be exported by Verathon service representatives.

Procedure 5. Insert the Video Baton into the Stat (Optional)

If you are using a video baton and a GVL Stat, attach the Stat to the baton before you connect the baton to the monitor.

- Open the GVL Stat pouch, but do not remove the Stat from the packaging.
- Ensure that the logo on the side of the baton and the logo on the side of the Stat are aligned.
- Slide the video baton into the GVL Stat until it clicks into place. Do not remove the Stat from the pouch until you are ready to begin the intubation. This helps ensure that the blade remains as clean as possible until you are ready to use it.

Note: Ensure that you do not insert the video baton backwards.

Correct



Incorrect



- When you remove the GVL Stat from the packaging, visually inspect the Stat to ensure that all exterior surfaces are free of unintended rough areas, sharp edges, protrusions, or cracks.
- If desired to provide additional anti-fog benefits, you may apply Dexide Fred Lite to the camera window on the Stat.* Use the solution according to the manufacturer's instructions.

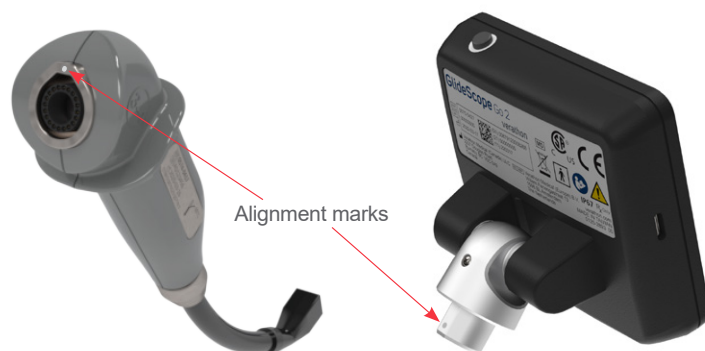
* Compatibility has been demonstrated for up to one hour of continuous exposure on video batons and Stats.

Procedure 6. Attach the Blade or Baton

The blade or video baton attaches to the monitor's connector arm. The monitor rotates on the connector arm, allowing you to set a starting angle to begin the intubation.

It is recommended that you leave single-use accessories in their packaging while connecting them, and that you do not remove it until you are ready to perform the procedure. This helps ensure that the blade remains as clean as possible until you are ready to use it.

1. Ensure the monitor's connector is free of debris and no foreign objects are attached to the magnet.
2. Align the mark on the monitor with the mark on the baton or single-use blade, and then insert the blade/baton connector fully into the connector port on the blade or baton.



Procedure 7. Perform a Functional Check

Before using the device, ensure the system is working properly.

1. Ensure the monitor battery has enough charge to complete the procedure. Fully charge battery when possible.
2. Attach the scope to the monitor.
3. Press the **Power** button. The monitor turns on.
4. Look at the screen and verify that video is being received from the laryngoscope.

Note: The edges of the blade or Stat may be captured in the camera view. This image acts as a frame of reference during the intubation process and ensures that the orientation of the image is correct in the monitor.

Using the Device

Prior to using the device, complete the instructions in the chapter [Setting Up](#).

Procedure 1. Prepare the System



Please read the [Warnings & Cautions](#) section before performing the following tasks.


1. Ensure that each GlideScope system component has been properly cleaned or disinfected according to the guidance provided in the [Reprocessing](#) chapter on [page 28](#).
2. Based on a clinical assessment of the patient and the experience and judgment of the clinician, select the GlideScope video laryngoscope that is appropriate for the patient.
3. Attach the video laryngoscope to the monitor per [Attach the Blade or Baton](#) on [page 23](#).

Procedure 2. Perform an Intubation



Please read the [Warnings & Cautions](#) section before performing the following tasks.


To perform an intubation, Verathon recommends using the GlideScope 4-Step Technique as outlined in this procedure. Each step begins with where the user should be looking to complete that action. Prior to beginning this procedure, verify that the monitor is receiving an accurate image from the video laryngoscope.


During the procedure, when using a laryngoscope that is compatible, Dynamic Light Control  can be turned on or off to assist with optimizing the image quality and brightness at the vocal cords. See [Set Dynamic Light Control \(Optional\)](#) on [page 25](#) for information on using this feature.

1. **Look in the Mouth:** Insert the blade midline, advancing the tip until it is past the posterior aspect of the tongue.
2. **Look at the Screen:** Identify the epiglottis and advance the blade into the vallecula for a view of the glottis.
3. **Look in the Mouth:** Using a GlideRite stylet (optional), introduce the ET tube along the right side the blade.
4. **Look at the Screen:** Complete the intubation, gently rotating or angling the tube as needed to redirect it.
5. **Remove the GlideRite stylet (optional):** Pull the stylet out towards the patient's feet

Procedure 3. Set Dynamic Light Control (Optional)

Dynamic Light Control (DLC) is designed to assist in optimizing image quality and brightness at the vocal cords. DLC is only available when a compatible laryngoscope is connected to the monitor

1. With a compatible laryngoscope connected to the monitor, tap anywhere on the **Home** screen.
2. Tap the **More** ... button.
3. Tap the Dynamic Light Control  button. The icon is gold when turned on.

If the Dynamic Light Control  button does not show and the connected laryngoscope is compatible, the main DLC setting may need to be turned on. For information on accessing the system menu, see [Configure User Settings \(Optional\)](#) on page 18.

Procedure 4. Record Video or Take a Snapshot




Please read the [Warnings & Cautions](#) section before performing the following tasks.




The monitor is equipped with a video recording feature and the ability to save snapshots of the live display on the monitor. The system saves this data to its internal memory. You can export the video recordings and snapshots from the video monitor to a USB flash drive to view them on a computer.

By default, the automatic video recording option is disabled. When automatic video recording is enabled, the monitor starts recording once a scope is connected, or once the monitor is powered on with a scope already connected.

AUTOMATIC RECORDING SETTINGS

1. Tap anywhere on the **Home** screen.
2. When the additional icons appear, tap the **More** ... button, and then tap the **Settings**  button.
3. In the Settings menu, tap **Features**, and then tap **Snapshot / Video**.
4. Toggle the **Auto Record** option as needed.

MANUAL RECORDING AND SNAPSHOTS

1. Tap anywhere on the **Home** screen.
2. When the additional icons appear, tap the **Record**  button. The Record button turns yellow while the monitor prepares to record, and then red to indicate the recording has started and is being saved to the monitor.
3. When you are finished recording, tap the **Record**  button again. The recording stops.
4. If you would like to save a photo of the live display, press the **Snapshot**  button. A frame briefly appears around the video to indicate the snapshot has been taken. This can also be done while recording video.

Procedure 5. Disconnect the Blade or Baton

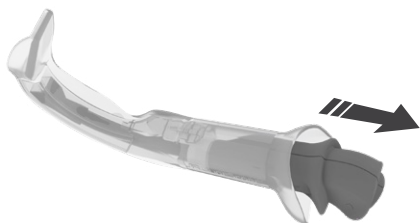
1. To disconnect the scope from the monitor, hold the monitor in one hand and the scope's body in the other, and then pull. The scope disconnects from the monitor.



Procedure 6. Remove the Stat (Video Batons Only)

The GVL Stat is a sterile, single-use device. After each use, it is a biohazard, and it should be removed from the video baton and disposed of in a manner consistent with local protocols.

1. Hold the Stat in one hand.
2. To reduce the force required to remove the video baton from the Stat, use your thumb and finger to gently press the collar of the Stat.
3. With the other hand, grasp the handle of the video baton and pull firmly.



Procedure 7. Export Media files

IMPORTANT

Do not power off the monitor or disconnect the USB drive until the export is complete. Files that do not complete the export will remain on the monitor.

The system saves data to its internal memory. You can export the video recordings and snapshots from the video monitor to a USB flash drive to view them on a computer. Optionally, the files can be encrypted during the export.

1. Connect a USB-C drive to the monitor's USB port.
2. Ensure the monitor is powered on, and then tap anywhere on the **Home** screen.
3. When the additional icons appear, tap the **More** ... button, and then tap the **Settings** ⚙ button.
4. In the **Settings** menu, tap **Media**, and then tap **Export**.
5. Set the options as needed for Media, Date Range, After Export, and Encryption, and then tap **Export**.

Note: If you choose to encrypt the files, decryption software is also copied to the USB drive.

6. On the export confirmation screen, tap **Yes**.
7. If you chose to encrypt the files, enter a 9-digit encryption code, enter it again to confirm, and then tap the **Confirm** ✓ button. The files are saved to the USB drive.
8. Connect the drive to a computer to view the files.
9. If you encrypted the files, continue to the next step.

If you didn't choose to encrypt the files, you can copy and view the files normally and end this procedure now.

10. Open the Verathon Decryption Application on the USB drive.
11. Choose the Input folder.
12. Choose the Output folder if needed.

Note: The default Output folder will be set to the same location as the Input folder.

13. Enter the Encryption Code that was set on the monitor during the file export, and then click Decrypt. Once the decryption is complete, navigate to the Output folder to view the files.

Note: The encrypted files are not automatically deleted. If the Input and Output locations are the same, the folder will contain both the encrypted and decrypted files.

Reprocessing

Some of the components in this manual may require cleaning, low-level disinfection, high-level disinfection, or sterilization between uses or under specific circumstances. For information about the cleaning, disinfection, and sterilization requirements for these components, refer to the GlideScope and GlideRite Products Reprocessing Manual, which is available at [verathon.com/service-and-support/glidescope-reprocessing-products](https://www.verathon.com/service-and-support/glidescope-reprocessing-products).

Maintenance & Safety

Periodic Inspections

No periodic inspections, maintenance, or calibrations are required by Verathon.

Report any suspected defects to Verathon Customer Care or your local representative. For contact information, visit verathon.com/service-and-support.

If the system becomes unresponsive, hold the power button for approximately 7 seconds to reset the monitor.

GlideScope Go 2 Battery

After 300 charge and discharge cycles, the battery capacity is approximately 80% of the initial capacity. Under normal operating conditions, this may happen at around 3 years. For more information about the battery, see [Monitor Specifications](#) on page 32.

The battery is not user-replaceable. Do not attempt to replace the battery. Any attempts to replace the battery by unauthorized service technicians may cause serious harm to the user and will void the warranty. For more information, contact Verathon Customer Care or your local representative.

System Software

This manual documents the most current version of the software. If your monitor does not function as described in this manual, or to determine if your software should be updated, contact Verathon Customer Care. Do not perform any software upgrades from third-party vendors or attempt to modify the existing software. Doing so may damage the monitor and void the warranty.

Device Repair

The system components are not user-serviceable. Verathon does not make available any type of circuit diagrams, component parts lists, descriptions, or other information that would be required for repairing the device and related accessories. All service must be performed by a qualified technician. If you have any questions, contact Verathon Customer Care or your local Verathon representative.



Please read the [Warnings & Cautions](#) section.

Device Disposal

The system and related accessories may contain batteries and other environmentally hazardous materials. When the instrument has reached the end of its useful service life, it must be disposed of in accordance with WEEE requirements. Coordinate disposal through your Verathon Service Center, or alternatively, follow your local protocols for hazardous waste disposal.

Limited Warranty

ORIGINAL TOTAL CUSTOMER CARE WARRANTY

THIS LIMITED WARRANTY ("Warranty") is provided by Verathon Inc. ("Verathon") to the Customer for the GlideScope® Go 2 portable video laryngoscope monitor (the "Monitor" or "Product"). Unless modified by separate negotiated agreement, this Warranty, together with the terms as set out in the written quotation, order acknowledgment, and invoice, in addition to Verathon's standard Terms and Conditions of Sale, creates the entire agreement between Verathon and Customer ("Agreement"), superseding all other communications and documentation. Verathon expressly rejects any different, additional, or preprinted terms contained or referenced in any purchase order or other documentation supplied by Customer.

SCOPE OF COVERAGE: This Warranty covers service and repair of all malfunctions (mechanical, electrical, and other defects) associated with the Monitor purchased by Customer from Verathon, for a period of two (2) years from the shipment date ("Term"). Replacement parts will be new, rebuilt or non-original manufacturer's parts that perform to the factory specifications of the Monitor at Verathon's sole option.

Verathon will perform repair and replacement services ("Service") only if the Monitor was purchased from an authorized dealer. If the Monitor was purchased from an unauthorized dealer, or if the original factory serial number has been removed, defaced, or altered, this Warranty is void.

If the Monitor requires Service, Verathon will, at its discretion, either repair or replace the Monitor and may provide a loaner unit, at Customer's request. Customer shall send the defective Monitor to Verathon (cleaned and disinfected as appropriate). All exchanged parts become property of Verathon.

EXCLUSIONS: This Warranty excludes problems caused by the Customer's acts (or failure to act), the acts of others, or events beyond Customer's reasonable control including:

- Theft, misuse, abuse, extraordinary wear and tear, or neglect.
- Misapplication, improper use such as cleaning with chemicals, disinfects, or autoclaving, or other failure to follow Verathon's written product instructions and safety precautions contained in the Operations and Maintenance Manual.
- Exposure to temperatures in excess of 60°C (140°F).
- Use of the Product in conjunction with hardware, software, components, services, accessories, attachments, interfaces, or consumables, other than those supplied or specified by Verathon.
- Product repaired or maintained by anyone other than a Verathon authorized service provider.
- Modification, disassembly, rewiring, re engineering, recalibration, and/or reprogramming of the Product other than as specifically authorized by Verathon in writing.

If the Monitor is damaged due to accidental drop and cannot be serviced, the Monitor can be replaced (unlimited times) and a \$900 deductible fee will apply for each replacement.

ACCESSORIES: Monitor accessories purchased separately, including the charging cradle, are limited to a one-year factory warranty. Consumable items are not covered under this warranty.

OBTAINING SERVICE: To request service, Customer must first contact Verathon's Customer Care Department to obtain a return authorization number pursuant to the guidelines provided.

VERATHON SERVICE: Verathon shall provide Services in a timely and competent manner by professionals qualified to render such services. Verathon agrees that all Services performed, or parts provided by Verathon shall be free from defect in materials and workmanship for the Term. Customer shall notify Verathon if and to what respect any of said guarantees have not been met and Verathon shall promptly, at its

own expense and sole discretion, re-perform such services and make such alteration, repair, or replacement as may be necessary to meet the guarantees hereunder so long as the non-performance is due to a manufacturer defect and not physical or Customer induced issues after the service is completed.

EXTENDED WARRANTIES: Customer may purchase a GlideScope Go 2 Extended Warranty for an additional one (1) year period that extends this Limited Warranty. For more information, contact Verathon's Customer Care Department or your local representative.

LIMITED REMEDY: This Warranty gives Customer specific legal rights which may vary based on local law. When, under applicable law, implied warranties are not allowed to be excluded in their entirety, such warranties will be limited to the duration of the applicable written warranty and, for European Customers, any terms herein limiting Verathon's liability shall not apply insofar as they conflict with mandatory statutory provisions of the Product Liability Act.

TO THE FULL EXTENT ALLOWED BY LAW, THE FOREGOING LIMITED WARRANTIES AND REMEDIES ARE EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, REPRESENTATIONS, TERMS, OR CONDITIONS, WRITTEN OR ORAL, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES, TERMS OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SATISFACTORY QUALITY, CORRESPONDENCE WITH DESCRIPTION, AND NON-INFRINGEMENT, ALL OF WHICH ARE HEREBY EXPRESSLY DISCLAIMED.


TRANSFER OF SERVICE: This Warranty extends only to Customer and may not be transferred to third parties by operation of law or otherwise.

Product Specifications

Component Specifications

Monitor Specifications

Table 11. Go 2 (0570-0427)

GENERAL SPECIFICATIONS		
Classification:	Electrical Class II, Applied Part BF	
Ingress protection:	IP67	
Expected product life:	1500 uses or 3 years	
Internal memory	32 Gb	
BATTERY SPECIFICATIONS		
Battery type	Lithium-ion	
Battery life	Under normal operating conditions, a fully charged, new battery lasts approximately 100 minutes, (5) intubations without recording.	
Charging time	Charging time takes no more than 3 hours from an empty battery to a full charge.	
Rated capacity	1200 mAh or higher	
Nominal voltage	3.7 V	
Max charging voltage:	4.2 V	
OPERATING & STORAGE SPECIFICATIONS		
	Operating Conditions	Shipping & Storage Conditions
Temperature:	0–40°C (32 to 104°F)	-20–40°C (-4 to 104°F)
Charging temperature:	10–40°C (50–104°F)	—
Relative humidity (non-condensing):	10–95%	10–95%
Atmospheric pressure:	700–1060 hPa	540–1060 hPa
COMPONENT SPECIFICATIONS		
Display	LCD, 320 x 240 px	
Monitor (A)	8.9 cm (3.5 in)	
Height (B)	86 mm (3.39 in)	
Width (C)	98 mm (3.86 in)	
Depth (D)	47 mm (1.85 in)	
Weight (approximate)	0.25 kg (8.82 oz)	



For operating conditions on scopes, please refer to the GlideScope Video Laryngoscopes Operations & Maintenance Manual (part number 0900-4940) or the GlideScope BFlex Single-Use Bronchoscopes Operations & Maintenance Manual (part number 0900-4939).

Electromagnetic Compatibility

The system is designed to be in compliance with IEC 60601-1-2, which contains electromagnetic compatibility (EMC) requirements for medical electrical equipment. The limits for emissions and immunity specified in this standard are designed to provide reasonable protection against harmful interference in a typical medical installation.

The system complies with the applicable essential performance requirements specified in IEC 60601-1 and IEC 60601-2-18. Results of immunity testing show that the essential performance of the system is not affected under the test conditions described in the following tables.

Electromagnetic immunity


Table 12. Guidance and Manufacturer's Declaration—Electromagnetic Immunity

The system is intended for use in the electromagnetic environment specified below. The customer or the user of the system should ensure that it is used in such an environment.

IMMUNITY TESTS	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV contact ± 2, ± 4, ± 8, ± 15 kV air	In compliance	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4 (Repetition frequency 100 kHz)	± 2 kV for power supply lines ± 1 kV for input/output lines	In compliance	Mains power quality should be that of a home healthcare or hospital environment.
Surge transient IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	In compliance	Mains power quality should be that of a home healthcare or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips: 0% during 0.5 cycle 0% during 1 cycle 40% during 10/12 cycles at 50/60 Hz 70% during 25/30 cycles at 50/60 Hz Voltage interruptions: 0% during 250/300 cycles at 50/60 Hz	In compliance	Mains power quality should be that of a home healthcare or hospital environment. If the user of the system requires continued operation during power mains interruptions, it is recommended that the system be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m; 50/60 Hz	In compliance	Power frequency magnetic fields should be at levels characteristic of a typical location in a home healthcare or hospital environment.

Table 12. Guidance and Manufacturer's Declaration—Electromagnetic Immunity

The system is intended for use in the electromagnetic environment specified below. The customer or the user of the system should ensure that it is used in such an environment.

IMMUNITY TESTS	IEC 60601 TEST LEVEL	COMPLIANCE LEVEL	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
Conducted RF: conducted immunity on all ports IEC 61000-4-6	3 Vrms at 0.15 MHz–80 MHz AC/DC/Signal lines 6 Vrms for ISM and Amateur Radio Bands between 0.15 MHz–80 MHz	In compliance	Portable and mobile RF communications equipment should be used no closer to any part of the system, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance d (m) $d=1.2 \sqrt{P}$
Conducted RF: conducted immunity on patient coupling ports IEC 61000-4-6	3 Vrms at 0.15 MHz–80 MHz and 480.0498 kHz 6 Vrms for ISM and Amateur Radio Bands between 0.15 MHz–80 MHz, 3 sec dwell time		
Radiated RF: hospital environment IEC 61000-4-3	3 V/m 80 MHz–2.7 GHz 80% AM at 1 kHz	In compliance	Interference may occur in the vicinity of equipment marked with the following symbol: 
Radiated RF: home healthcare environment IEC 61000-4-3	10 V/m 80 MHz–2.7 GHz 80% AM at 1 kHz		

Note: U_t is the AC mains voltage prior to application of the test level.

These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Electromagnetic emissions

Table 13. Guidance and Manufacturer's Declaration—Electromagnetic Emissions

The system is intended for use in the electromagnetic environment specified below. The customer or the user of the system should ensure that it is used in such an environment.

EMISSIONS TEST	COMPLIANCE	ELECTROMAGNETIC ENVIRONMENT – GUIDANCE
RF emissions CISPR 11	Group 1	The system 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 CISPR 11	Class B	The system is suitable for use in home healthcare and professional hospital environments.
Harmonic emissions IEC 61000-3-2	Class B	
Voltage fluctuations/flicker emissions IEC 61000-3-3	In compliance	

Accessory Conformance to Standards

To maintain electromagnetic interference (EMI) within certified limits, the system must be used with the cables, components, and accessories specified or supplied by Verathon. For additional information, see [System Parts & Accessories](#). The use of accessories or cables other than those specified or supplied may result in increased emissions or decreased immunity of the system.

Table 14. EMC Standards for Accessories

ACCESSORY	MAX CABLE LENGTH
Monitor power adapter	1.5 m (4.9 ft)
Charging cradle power adapter	1.5 m (4.9 ft)

Glossary

The following table provides definitions for specialized terms used in this manual or on the product itself. For a full list of caution, warning, and informational symbols used on this and other Verathon products, please refer to the *Verathon Symbol Glossary* at verathon.com/service-and-support/symbols.

TERM	DEFINITION
A	Ampere
AC	Alternating current
C	Celsius
CFR	Code of Federal Regulations (U.S.)
CISPR	International Special Committee on Radio Interference
cm	Centimeter
EMI	Electromagnetic interference
ESD	Electrostatic discharge
Essential performance	The system performance necessary to achieve freedom from unacceptable risk
F	Fahrenheit
g	Gram
GHz	Gigahertz
hPa	Hectopascal
Hz	Hertz
IEC	International Electrotechnical Commission
in	Inch
ISM	Industrial, scientific, and medical
kHz	Kilohertz
kV	Kilovolt
m	Meter
mAh	Milliampere-hour
MDD	Medical Device Directive
MHz	Megahertz
mL	Milliliter
mm	Millimeter
OSHA	Occupational Safety and Health Administration (federal agency in U.S.)
RF	Radio frequency
RH	Relative humidity
V	Volt
Vrms	Voltage root mean squared
W	Watt
WEEE	Waste electrical and electronic equipment

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