

# SEER Light/ SEER Light Extend

Compact digital recorders  
for ambulatory ECG testing

They're very small.

And at only a few ounces, some might consider them featherweights.

Yet they play an enormous role in accurate ambulatory ECG testing.

The SEER® Light and SEER Light Extend digital recorders continue GE's legacy of exceptional Holter monitoring by giving clinicians a cost-effective way to obtain accurate ECG data. They provide diagnostic-quality data acquisitions in compact designs that offer the ultimate in patient comfort.

The SEER Light is our smallest and lightest Holter recorder, weighing in at only 72 grams (2.5 ounces). It provides 24 hours of 2-3 channels of full-disclosure ECG with pacemaker detection, a simple-to-use patient event button, and access to patient demographics for easy study identification.

The SEER Light Extend recorder is for patients who require monitoring for a longer period of time. It offers 48 hours of reliable ambulatory ECG data acquisitions, with all the same features as the SEER Light.

Both these digital Holter recorders are designed for high performance and durability, meeting quality and integrity performance guidelines for ambulatory ECG acquisitions.



## Part of GE's total ambulatory ECG solution

Both the SEER Light and SEER Light Extend recorders work with the SEER Light Extend Controller for the initial hook-up of the recorder, and then later when it is used to transfer the completed data to GE's MARS® workstation.

The controller plays an integral role in ensuring the quality and integrity of the patient data. Patient demographics, including patient identification, age, gender and name, are entered from the controller, expediting data entry and minimizing the possibility of data entry errors. The controller features a large LCD screen that displays the patient's ECG waveform to visually ensure quality lead placement.

After the Holter study is completed, the patient data is downloaded through the controller to the MARS system, where it is analyzed using the industry's most extensive collection of clinically-proven Marquette® algorithms. This information can then be stored in the MUSE® cardiology information system.

## Feature highlights

- Small, compact digital recorders weighing only 72 grams (2.5 oz.).
- Provides 2–3 channels of diagnostic-quality ECG for up to 24 hours, with the SEER Light Extend offering 48 hours of monitoring.
- Integral pacemaker detection avoids the expense of a separate dedicated pacemaker recorder.
- Onboard memory with solid-state technology for reliability and durability.
- Patient event button allows patients to quickly and easily indicate when an episode occurs.
- Handheld controller provides patient demographics entry and visual confirmation of correct lead placement.
- Compatible with MARS PC Holter systems.
- Marquette EK-Pro™ analysis for Holter.



## SEER Light/SEER Light Extend Recorders

Physical specifications	
Height	5.4 cm (2.1 in)
Width	8.5 cm (3.3 in)
Depth	1.5 cm (0.6 in)
Weight	72 grams (2.5 oz)
Material	Aluminum ABSPC (main body)
Performance specifications	
Storage medium	
Memory	32 MB
Recording time	within 24 hrs – SEER Light within 48 hrs – SEER Light Extend
Recording channel	ECG: 3 channels Movement level: 1 channel Pacemaker pulse: 1 channel
Pacemaker detection channel	CH1
Time data backup	Within 1 week (when started by the Cardy 301 recorder)
Environmental specifications	
Power requirements	2 AAA alkaline batteries
Temperature	
Operating	0°C to 45°C (32°F to 113°F)
Storage	-20°C to 65°C (-4°F to 149°F)
Humidity	
Operating	10 to 95% RH non-condensing
Storage	5 to 90% RH non-condensing
Water-resistant	Yes
General specifications	
Digital sampling	125 sps
A/D conversion	10 bit, 8 ms sampling
Digital storage	20 $\mu$ V/LSB
Input level	16 mV p-p
Frequency response	0.05 Hz to 40 Hz
Input impedance	10 M $\Omega$
Safety	Type 13

## SEER Light/SEER Light Extend Controllers

Physical specifications	
Height	20.0 cm (7.8 in)
Width	9.0 cm (3.5 in)
Depth	2.5 cm (1.0 in)
Weight	285 grams (9.9 oz)
Performance specifications	
Data transfer medium	Compact flash card
Vibration endurance	Operation: 0.5G (10-20 Hz) Non-operation: 3.0G (100-300 Hz)
Time accuracy	$\pm$ 60 seconds per month
Environmental specifications	
Power requirements	4 AAA alkaline batteries
Operating conditions	
Temperature	10°C to 35°C (50°F to 95°F)
Relative humidity	10-95% RH non-condensing
Storage conditions	
Temperature	-20°C to 65°C (-4°F to 149°F)
Relative humidity	5 to 90% RH non-condensing

## SEER Light Connect Device

Physical specifications	
Height	13 mm (.51 in)
Width	90 mm (3.54 in)
Depth	51 mm (2.01 in)
Cable length	260 mm (10.24 in)
Weight	87 g (.19 lbs)
Environmental specifications	
Power supply	DC 5V
Recorders	SEER Light Recorder SEER Light Extend Recorder
Temperature	
Operating	10 to 35°C (50 to 95°F)
Storage	-20 to 65°C (-4 to 149°F)
Humidity	
Operating	10 to 95% RH non-condensing
Storage	5 to 90% RH non-condensing



Sales and Service of Cardiology and Surgical Equipment and Supplies

## Warranty

Standard warranty is one year.