BiliSoft LED Phototherapy System

Intensive therapy, as easy as wrapping a baby in a blanket
BiliSoft, a new generation of soft, intensive phototherapy

BiliSoft™ LED Phototherapy System is the next generation LED and fiber-optic based technology for treatment of indirect hyperbilirubinemia in newborns. Its increased surface area, high spectral irradiance, and long lasting blue narrow-band LED light are the features that are needed for intensive, efficacious phototherapy as recommended by AAP Guidelines. It is also the only product on the market that supports and promotes developmental care, enables infant-parent bonding and provides healing light where it is needed – in Neonatal ICU, Pediatrics, Well Baby Nursery and at home.

The BiliSoft’s blue LED light delivers healing phototherapy that meets and exceeds the recommendations of the American Academy of Pediatrics* – including the following critical specifications:

<table>
<thead>
<tr>
<th>Components of Intensive Phototherapy</th>
<th>AAP Guideline</th>
<th>BiliSoft LED Phototherapy System</th>
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</thead>
<tbody>
<tr>
<td>Light Intensity</td>
<td>Irradiance level at least 30 μW•cm⁻²•nm⁻¹</td>
<td>35 μW•cm⁻²•nm⁻¹ (large pad) 50 μW•cm⁻²•nm⁻¹ (small pad)</td>
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<tr>
<td>Light Spectrum</td>
<td>Wavelength between 430-490 nm</td>
<td>430-490 nm (peak 440-460 nm, matching the peak absorption wavelength at which bilirubin is broken down (458 nm)**</td>
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<tr>
<td>Surface Area Coverage</td>
<td>Larger surface area, especially for combating extremely high bilirubin levels</td>
<td>Provides greater surface area than other fiberoptic devices and many overhead lamps</td>
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<tr>
<td>Distance</td>
<td>Distance between the infant and the light source is critical to spectral irradiance level</td>
<td>In contact with infant’s skin, eliminating distance deficiencies entirely</td>
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</table>

*BiliSoft is an excellent solution for infants in the Neonatal ICU, where fast, effective treatment can be most critical.


Meeting the AAP’s most precise guidelines

Healing light, right where it’s needed
BiliSoft delivers phototherapy anywhere – in the Neonatal ICU, Pediatrics, Well Baby Nursery or at home. BiliSoft can be used in any environment – in a radiant warmer, incubator, bassinet, crib, or in a caregiver’s arms.

Mounting options
Bed mounted units conserve space in all care areas. Roll stand mounted option provides added flexibility. Either option ensures quick and easy access to the newborn.

BiliSoft’s long, lightweight fiberoptic cable and quiet operation make it ideal for in-home application. It’s exceptionally easy to set up and use.

BiliSoft’s whisper-quiet operation helps you maintain a quiet environment to promote sleep and growth.
A design that promotes bonding and supports development

With BiliSoft, there’s no barrier to bonding between infant and parents or caregivers. The baby can be held, fed, even rocked throughout the therapy session.

Comfort is the keyword, whichever cover options you select. The flat, cushioned BiliSoft cover lets you swaddle baby and phototherapy pad together. The BiliSoft nest offers sick babies the boundaries and support they need, via a cushy footroll and gentle, transparent straps.

If a baby cannot be swaddled, positioning aids may be placed under the pad to bring more light to the sides of a baby’s body for greater skin surface area exposure to the light.

Irradiance level*
• There’s no distance factor to diminish treatment intensity
• Small pad irradiance is 50 μW·cm²·nm⁻¹
• Large pad irradiance is 35 μW·cm²·nm⁻¹
*irradiance through the typical BiliSoft covers and nests

BiliSoft fiberoptic pad covers
• Ultra-soft, disposable BiliSoft covers are made of flame-retardant, skin-friendly fabric
• BiliSoft covers and nests have soft straps which help swaddle a baby in comfort and transmit phototherapy light too, if an additional overhead phototherapy source is required

Easy positioning
• A long, flexible, fiberoptic cable makes positioning easier than ever

Double intensive phototherapy
If double phototherapy is warranted in an intensive care setting, BiliSoft, along with Giraffe® Spot PT Lite, can effectively provide double intensive phototherapy treatment. GE offers a complete portfolio of phototherapy products for treatment of hyperbilirubinemia – meeting the AAP Guidelines for intensive phototherapy.

We asked a number of neonatal caregivers what they thought of the new BiliSoft LED Phototherapy System.

“That’s incredible,” said one, noting in particular its generous surface area.

“Wow, that’s amazing,” said another.

“Striking how quiet it is. Awesome!”

“How soft is that!!!” said yet another. “When can I get it?”

No wonder BiliSoft is receiving rave reviews: It’s the result of continuous feedback from customers and a design engineering team that created the ideal system for infants, care providers and parents alike.
Specifications

**Electrical specifications**
- **Input:**
  - 1.5 A @ 100 – 240 V, 50/60 Hz
- **Fuses:**
  - T3.15 A @ 250 V, slo-blo type (qty. 2)
- **Leakage current:**
  - < 300 μA @ 264 V
- **Ground impedance:**
  - < 0.1 ohm from ground pin of the power inlet module to any exposed metal surface

**Environmental operating conditions**
- **Ambient temperature:**
  - +10°C to +35°C (50°F to 95°F)
- **Humidity:**
  - 10% to 90% RH non-condensing
- **Atmospheric pressure:**
  - 70 kPa to 106 kPa

**Performance specifications**
- **Spectral irradiance (bare fiberoptic pad):**
  - Large fiberoptic pad – 49 μW•cm⁻²•nm⁻¹ (+/- 25%) 9-point check
  - Small fiberoptic pad – 70 μW•cm⁻²•nm⁻¹ (+/- 25%) 6-point check

**Storage requirements**
- **Temperature:**
  - -40°C to +70°C (-40°F to 158°F)
- **Humidity:**
  - 0% to 100% RH non-condensing
- **Atmospheric pressure:**
  - 50 kPa to 106 kPa

**Physical specifications**
- **Light box (W x H x L):**
  - 16.5 x 21 x 16.5 cm
- **Light box weight (excluding fiberoptic pad):**
  - < 2.5 kg
- **Fiberoptic pad weight:**
  - < 1.1 kg
- **Fiberoptic light pad, small:**
  - 15 x 30 cm (light-emitting area)
- **Fiberoptic light pad, large:**
  - 25 x 30 cm (light-emitting area)
- **Fiberoptic cable length:**
  - 137 ± 5 cm

**Regulatory standards**
- IEC Type B equipment
- IEC Class 1 (continuous operation)
- FDA Class II

**Sound level:**
- < 44 dB(A) at 1 meter

**X-ray:**
- X-ray compatible

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Note: All specifications are nominal and are subject to change without notice.
Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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