

Bilicare Intensive Phototherapy

INTENSIVE PHOTOTHERAPY

The efficiency of phototherapy depends on the amount of bilirubin that is irradiated. Bilicare distributes homogeneous and better light penetration around the whole-body surface than conventional phototherapy units. Bilicare provides 360° phototherapy light and evenly distributes irradiance all around baby's body to improve the treatment of neonatal unconjugated hyperbilirubinemia and reduce phototherapy time.

One of the key points in the practical execution of phototherapy is the distance between infant and light sources. Bilicare covers much more of baby's body with effective spectral irradiance than conventional phototherapy units. This significantly eliminates most of the blood transfusions for the infants.

Bilicare emits its light in the most clinical effective range of 450-470 nm. Bilicare covers the most peak absorption wavelength (458 nm) at which bilirubin is broken down and does not emit light in the ultraviolet (UV) range which is increasing the potential risk of skin damage. Bilicare does not emit light in the infrared radiation (IR) range reducing the potential risk of fluid loss. Bilicare has light intensity control from 0 to 100% as well as optional irradiance control for individual needs of patient's.

Okuman offers a comprehensive range of phototherapy products for any level of clinical application. Bilicare intensive phototherapy units have special design for optimized phototherapy applications in most NICU with different features.





Optional Eco Version

- Economic trolley with 32 pcs. Blue treatment LEDs and 3.5 inches color TFT control
- · Optional Skin temperature measurement
- Timer, adjustable special irradiance, vertical height adjustment & rotatable with tilt option

Note: Trolley design can change without further notice as per request

Common Features of BC 250 and BC 350

Intensive phototherapy with maximum irradiation 360° uniform and simultaneous phototherapy Custom made control panel for all kinds of clinical use Adjustable light intensity for full term and premature babies Up/Down treatment timer Acrylic light shield for the protection of people around Washable hammock Sliding out bed that allows easy access to infant Monitor shelf Left and right lateral rails for protection Height adjustment (Manual or Electrical) Dual wheel castors with separate locking mechanism

BC 250 INTENSIVE PHOTOTHERAPY

LED display with soft buttons 16x60 LED blue therapy lamps 4 presets for light intensity Up/Down treatment timer Remote control for light intensity Lamp life timer Air and skin temperature measurement Audio and visual alarms Hi/Low alarms for skin and air temperature Manual height adjustment of the upper hood Optional fanless system for silent operation





Control Panel

LED display for timer LED display for skin and air temperature Hi/Low skin and air temperature alarms Audio and visual alarms Treatment time adjustment Light intensity adjustment

Remote Control

On/Off function Light intensity adjustment 4 different presets for light intensity Button adjustments between 0 to 100% User programmable 4 light intensity memory buttons

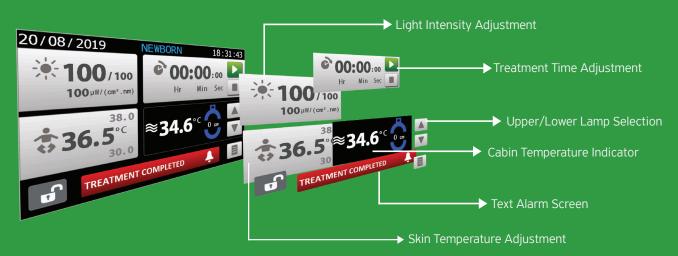
BC 250 LCD INTENSIVE PHOTOTHERAPY

5" color touch screen Adjustable spectral irradiance in µW/cm2/nm Selectable up/down 180° or 360° phototherapy 16*60 LED blue therapy lamps Up/Down treatment timer Air&skin temperature monitoring with hi/low alarms Patient information menu (name, ID, TSB, gender) Multiple language support Auto or manual height adjustment Adaptive temperature control system Trend information for monitored parameters Display lamp life timer with warning alarm Upper&Lower lamp selection feature





LCD Display (5" TFT Color Touch Screen)



Dedicated Hospital Solutions

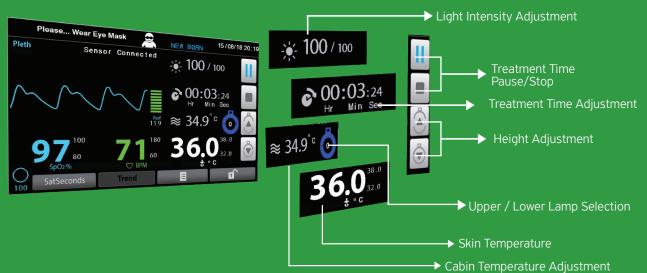
BC 350 INTENSIVE PHOTOTHERAPY

- 7" color touch screen
- Adjustable spectral irradiance in $\mu \! W/{\rm cm} 2/{\rm nm}$
- Selectable up/down 180° or 360° phototherapy
- 16x60 LEDs blue therapy lamps
- Up/Down counter for treatment time
- Air&skin temperature monitoring with Hi/Low alarms
- Patient Information menu (name, ID no, TSB, gender)
- Multiple language support
- Auto or manual height adjustment
- Adaptive temperature control system
- Trend information for monitored parameters
- Display Lamp Life Timer with warning alarm
- Upper & Lower lamp selection feature
- SatSeconds™ available with built-in Nellcor™ SpO2 technology
- Reduction of nuisance alarms
- Clinician controlled features
- Customized alarm settings according to the needs of different patients.

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nology	BC 350

	TR 203 Transport Incubator Reusable SpO2 Probe	Sensor Type: Neonate Number of Pin: 9 Pin Lenth: ~100 cm
unan • 🛱	TR 203 Transport Incubator Desposable SpO2 Probe	Sensor Type: Baby Number of Pin: 9 Pin Lenth: ~100 cm
	TR 203 Transport Incubator SpO2 Probe Ex- tension Cable	Lenth: 300 cm

LCD Display (7" Color Touch Screen)



General Specifications

Bilicare Reference No.	BC 250 LED	BC 250 LCD	BC 350
Number of Light Source	16x60 Blue LED	16x60 Blue LED	16x60 Blue LED
Screen Type	LED Display	5" Color & Touch Screen	7" Color & Touch Screen
Spectral Irradiance	0 to 100 ±5 μ W/cm2/nm	0 to 100 ±5 µ W/cm2/nm	0 to 100 ±5 µW/cm2/nm
Spectral Irradiance Adjustment	N/A	5 µW/cm2/nm increments	5 µW/cm2/nm increments
Light Intensity	From 0 to 100%	From 5 to 100%	From 5 to 100%
Light Intensity Adjustment	25% increments	5% increments	5% increments
Wavelength Spectrum	450 nm to 470 nm	450 nm to 470 nm	450 nm to 470 nm
Hi/Low Skin Temperature Alarm	30°C to 38,5°C	30°C to 38,5°C	30°C to 38,5°C
Hi/Low Air Temperature Alarm	30°C to 38,5°C	30°C to 38,5°C	30°C to 38,5°C
Treatment Timer, Counter Type	Yes	Yes	Yes
Phototherapy Timer	0 to 99 h	0 to 99 h	0 to 99 h
Treatment Timer, Adjustable	0 to 99 h	0 to 99 h	0 to 99 h
Infrared Remote Control	Yes	N/A	N/A
Upper Hood Height Adjustment	Manual Control	Electrical and Adaptive	Electrical and Adaptive
Jpper Hood Movement	2 to 30 cm	2 to 25 cm	2 to 25 cm
Fan Speed Control	Fixed	34+°C Auto-increment	34+°C Auto-increment
Up and Down Light Selection	360°	180° and 360° Selectable	180° and 360° Selectable
	Treatment Completed	Treatment Completed	Treatment Completed
	Lamp Life Timer	Lamp Life Timer	Lamp Life Timer
	Bed not seated well	Bed not seated well	Bed not seated well
	Fan	Cooling Fan Activated	Cooling Fan Activated
-	High Skin Temperature	High Air Temperature	High Air Temperature
Audio and Visual Alarms	Low Skin Temperature	Low Air Temperature	Low Air Temperature
	High Air Temperature	N/A	N/A
	Low Air Temperature	N/A	N/A
	Overheat	Overheat	Overheat
	N/A	Skin Probe Disconnected	Skin Probe Disconnected
	N/A	N/A	Yes
SpO2 Measurement	N/A	N/A	Nellcor''' Oximax SpO2
360° Visual Alarm Indicator	N/A	Yes	Yes
Trend Record	N/A	Skin Temp & Air Temp	Skin Temp &SpO₂
Patient Info	N/A	Name. ID. TSB. Gender	Name, ID, TSB, Gender
GUI Languages	N/A	EN, TR	EN, TR
Selectable Alarm Languages	N/A	FR, ES, RU, AR	FR, ES, RU, AR
Approx. Life-Time of the LEDs	20.000 hours	50.000 hours	50.000 hours

Technical Specifications

Height (H), Minimum-Maxi- mum1520 mm to 1770 mm1370 mm to 1625 mm1370 mm to 1625 mmHammock to Lamp Shield260 mm260 mm260 mmHammock Surface Area570 mm x 370 mm570 mm x 370 mm570 mm x 370 mmWeight of Total Unit76 Kg77 Kg77 KgCertificatesISO 9001:2015 EN ISO 13485:2016 CE MarkingISO 9001:2015 EN ISO 13485:2016 CE MarkingISO 9001:2015 EN ISO 13485:2016 CE MarkingISO 9001:2015 EN ISO 13485:2016 CE MarkingClassification In accordance with EU Directive 93/42/EECIIbIIbIIbGMDN Code352393523935239Standard ComplianceTS EN 60601-1 TS EN 60601-1-2 TS EN 60601-2-50 TS EN ISO 80601-2-56 TS EN ISO 14971Storage/Transportation Conditions				
Data Nonitored SpO2 1% to 100% Measurement Accuracy 70% to 100% ±2 digits, ±3 digits (in motion), 69 to 0%: unspecified Alarm Limit Range SpO2: 30% to 100% PR: 30 to 300 BPM Display Resolution 1 digit 11% of SpO2) SatSeconds Alarm Limit 10, 25, 50 or 100 SatSeconds: SatSeconds feature calculates: (SATURATION POINTS) x (SECONDS) Alarm Messages Sensor Disconnected, Sensor Ornected, Sensor Off Patient; Low SpO2, High SpO2, Low Pulse Rate, High Pulse Rate, Pulse Timeout, Pulse Nativalable Physical Specifications (Approximately) Bilicare Reference No. BC 250 BC 250 LCD BC 350 Height (H), Minimum-Maxi- mm 1520 mm to 1770 mm 1370 mm to 1625 1370 mm to 1625 mm Harmock to Lamp Shield 260 mm 260 mm 260 mm 260 mm Velight of Total Unit 76 Kg 77 Kg 77 Kg 1370 mm to 1625 LISO 90012015 EN ISO ISO 90012015 EN ISO 134852016 EK Marking Cartificates ISO 90012015 EN ISO 134852016 EK Marking EX Marking GMDN Code 35239 35239 35239 35239 35239 35239 35239<	SpO2 (Available only Bilicare B	C 350)		
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CertificatesISO 9001:2015 EN ISO 13485:2016 CE MarkingISO 9001:2015 EN ISO 13485:2016 CE MarkingISO 9001:2015 EN ISO 13485:2016 CE MarkingClassification In accordance with EU Directive 93/42/EECIIbIIbIIbIIbIIbIIbIIbGMDN Code352393523935239Standard ComplianceTS EN 60601-1 TS EN 60601-1-2 TS EN 60601-1-8 TS EN 60601-1-8 TS EN 60601-1-6 TS EN 60601-2-56 TS EN ISO 80601-2-56 TS EN 10 14971Storage/Transportation ConditionsAmbient Temperature18° C to 38° CAmbient Tem- perature-25° C to 60° CHumidity10% to 95% RH non-condensingHumidity0% to 95% RH non-condensingAmbient Pressure1100 hPa to 700 hPaAmbient Pressure1100 hPa to 500 hPaElectrical Input100-240 VAC, 50/60 Hz, 0.2 to 1 Amp.100-240 VAC, 50/60 Hz, 0.2 to 1 Amp.	Hammock Surface Area	570 mm x 370 mm		570 mm x 370 mm
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Electrical Input 100-240 VAC, 50/60 Hz, 0.2 to 1 Amp. 100-240 VAC, 50/60 Hz, 0.2 to 1 Amp. 100-240 VAC, 50/60 Hz, 0.2 to 1 Amp.			Humidity 0% to 95% RH non-condensing	
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Earth Leakage Current <300 µA <300 µA <300 µA	Electrical Input		50/60 Hz, 0.2 to	100-240 VAC, 50/60 Hz, 0.2 to 1 Amp.
	Earth Leakage Current	<300 µA	<300 µµA	<300 µµA

Dedicated Hospital

OKM 200 Transcutaneous Bilirubinometer

- Display Range
- Accuracy Repeatability Inspection Screen

No less than 25.0 mg/dL $(425 \ \mu mol/L)$ ±1.5 mg/dL (±25.5 µmol/L) No more than 3% Information Prompt Low voltage prompt Displayed when white screen is detected: 0.0-1.5 Displayed when yellow screen is detected: 20.0±1.5

Other Parameters

Rated voltage and frequancy of the device when it is supplied by the supply main: 220V-230V/ 50Hz Input power of the device when it is suppliled by the supply main: 30 VA Power supply type of the host when it is supplied by the internal power: Rated voltage 7.4V ----

Base output..... 8.4V ===1A Light Source..... Xenon flash lamp

STANDARD ACCESSORIES

- 1 pc. Skin Temperature Probe
- 1 pc. Eye protection mask bonnet type
- 1 pc. Power Cord
- 1 pc. User Manual
- 1 pc. Hammock, only for BC 250, BC 250 LCD, BC 350
- 1 pc. Nellcor SpO₂ Extension Cable for BC 350
- 2 pcs. Nellcor SpO₂ Probe, Neonatal, Single Patient Use for BC 350



Disposable Skin Temperature Probe	2 pin, 120 cm, 20 kΩ
Skin Temperature Probe Stamp	-
Reusable Skin Temperature Probe	1,6 metre, 4 pin, internal resistance: 30 k Ω



Optional Phototherapy Accessories			
Product Image	Product Name	Technicial Specifications	
3	Newborn Bone Type Phototherapy Eye Mask Small	Head circumference: 20-28 cm	
0	Newborn Bone Type Phototherapy Eye Mask Medium	Head circumference: 24-33 cm	
	Newborn Bone Type Phototherapy Eye Mask Large	Head circumference: 30-38 cm	
	Phototherapy Protected Diaper - Small	For babies weighing 750g-1250g	
OKUMAN Manager Marine Andrew Marine M	Phototherapy Protected Diaper - Medium	For babies weighing 1250g - 2250g	
	Phototherapy Eye Mask Y Type Small	-	
	Phototherapy Eye Mask Y Type Medium	-	
	Phototherapy Eye Mask Y Type Large	-	

Fototerapi Aksesuarları		
Ürün Görseli	Ürün Adı	Teknik Özellikler
	Phototherapy Eye Mask Bonnet Type Small	-
	Phototherapy Eye Mask Bonnet Type Medium	-
	Phototherapy Eye Mask Bonnet Type Large	-
	Baby Gloves	_
	Hammock for BC100/250/350	Size: 63 cm x 46 cm
	Hammock for BC100/250/350 without Logo	Size: 63 cm x 46 cm
	Dust Cover	





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