

Product Specifications LED Ophthalmoscopes BXαRCLED & BXαRCUSBLED

Product Name	LED Ophthalmoscope BXαRCLED	LED Ophthalmoscope BXαRCUSBLED
Generic Name	Direct Ophthalmoscope	
Illumination Source	LED Bulb L-101	
Correction Range	-36 D to +35 D (in increments of 1 D)	
Filters (Illumination system)	Polarizing filter, Red-free filter	
Observation Polarizing Filter	ON / OFF	
Illumination Dial	Normal aperture, Small aperture, Slit, Concentric scale, Cobalt blue filter	
Battery	1 pc. Lithium-ion battery (rated voltage 3.6V, 3200mAh)	
Maximum Power Consumption	Below 2W (with the head attached)	
Dimensions and Weight	45(W)×223(H)×34(D) Approx.230g (including the rechargeable battery)	45(W)×223(H)×34(D) Approx.235g (including the rechargeable battery)

Product Specifications Charging Stand RC-III

Product Name	Charging Stand RC-III
Input Power Supply	AC 100V -240V / 50Hz -60Hz, 0.3A
AC Adapter Output	USB Type A connector DC 5V / 2A (maximum)
USB Cable	Type A to C, 1.5m (with overheat and over current protection)
Power Consumption	Below 30VA (while charging)
Dimensions and Weight	60(W)×60(H)×60(D) Approx. 175g (excluding the AC adapter)

Included Accessories

BXαRCLED	BXαRCUSBLED	RC-III
Carring case	Carring case, AC adapter, USB cable	AC adapter, USB cable

Product Specifications Transilluminator TI

Product Name	Transilluminator TI (Head only)
Generic Name	General-purpose light source
Illumination Source	LED Bulb L-104
Maximum Power Consumption	Below 2W
Dimensions	Head only: Approx. Φ22.5 mm × 80 mm
Weight	Head only: Approx. 35g (including the LED bulb)

Related Products LED Ophthalmo-Retinoscope Sets BXαRCRXLED BXαRCRXSPLED BXαRCUSBRXLED BXαRCUSBRXSPLED

Useful Ophthalmologic Diagnostic Set that Ophthalmoscope BXαLED and Retinoscope RXLED share one of the Battery Handles.



Battery Handles are separately available.

LED Ophthalmoscopes

BXαRCLED
BXαRCUSBLED
Charging Stand RC-III
Transilluminator TI

The Features of LED Direct Ophthalmoscope BX α LED

**2-3
TIMES**

Brighter Illumination Field

- Two to three times brighter than our halogen bulb models.

SMOOTH

Smooth Illumination Control

- Smooth stepless light control from the minimum to the maximum.
- Reduces the burden of the patient caused by photophobia.
- Clear fundus observation.

BOOST

Boost Mode for More Brightness

- Switchable between Normal mode and much brighter Boost mode.

●

Equipped with Cobalt Blue Filter

- For fluorescein examination.

Ra:90

High Color-rendering LED

- Ra: More than 90, R9: More than 80 Color temperature: 2700K
- No need of light bulb replacement. Maintenance-free LED lifetime: 50,000 hours.

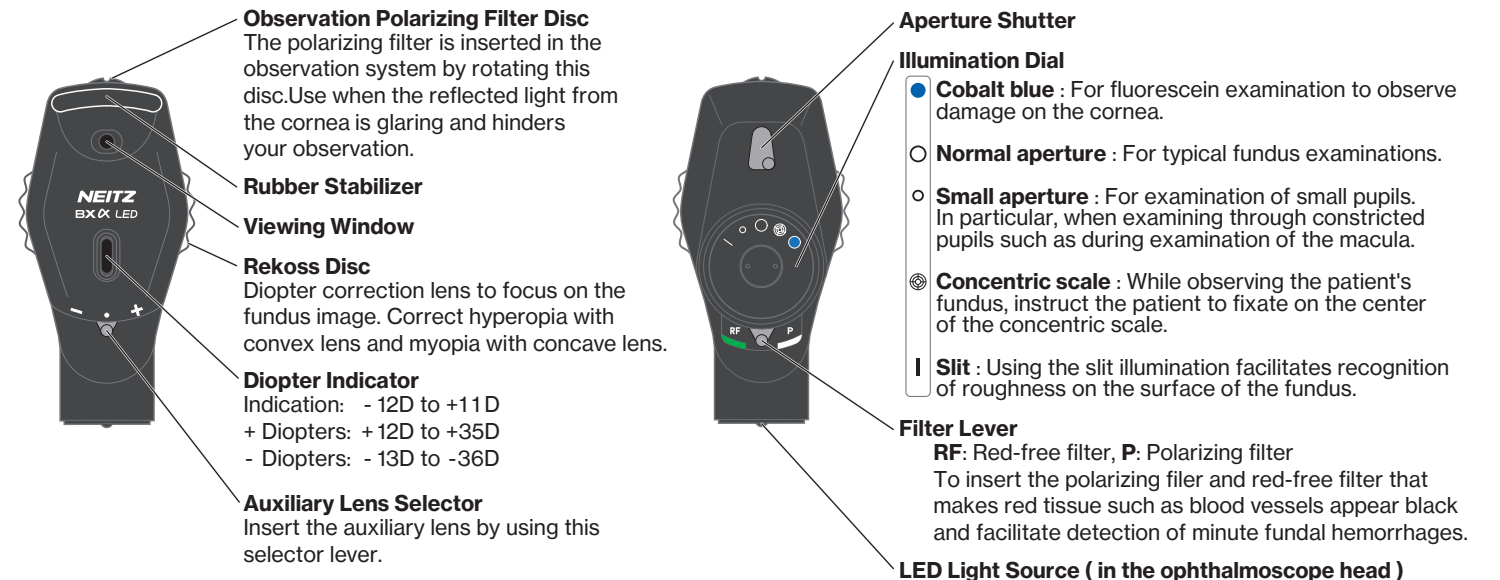
Li-ion

Powered by Li-ion Battery

- Store the Device in the Table-top Charging Stand while charging.

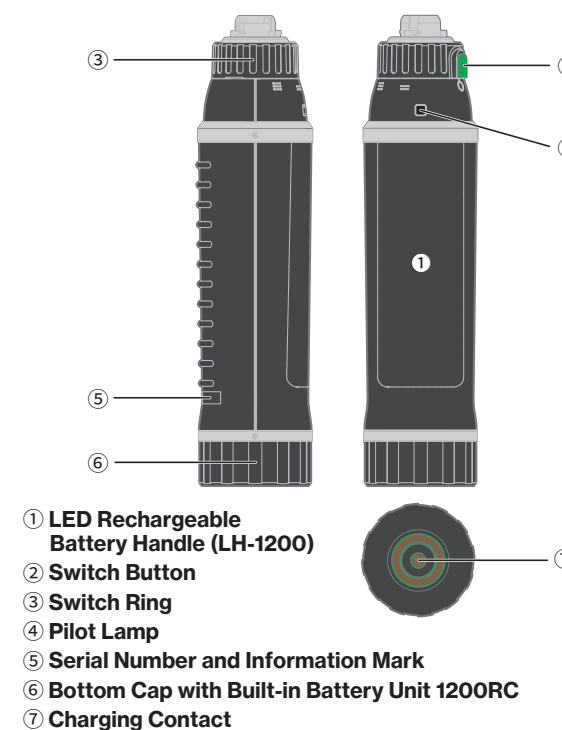


Various Functions



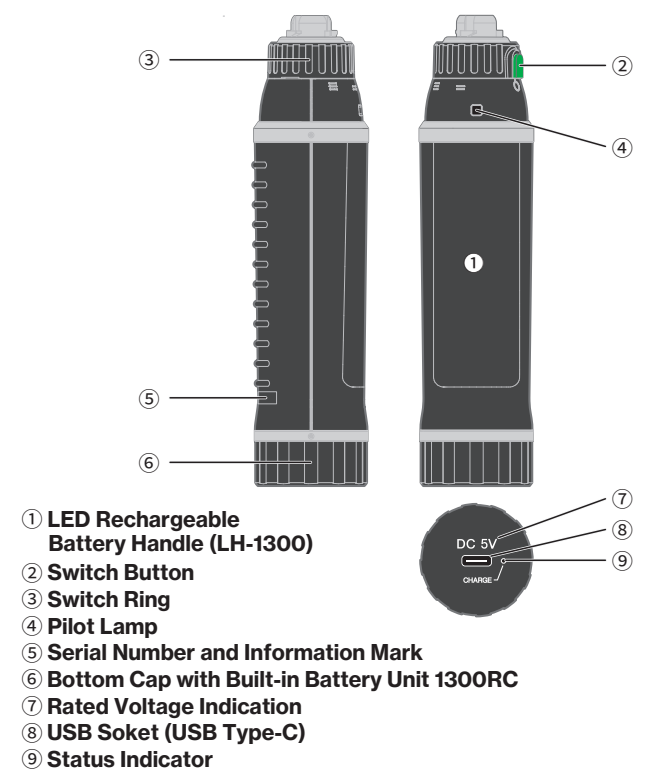
LED Rechargeable Battery Handle

Charged via separately available Charging Stand RC-III.

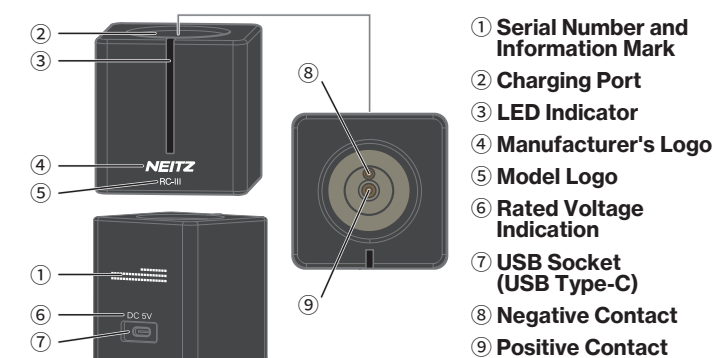


USB Charging Handle

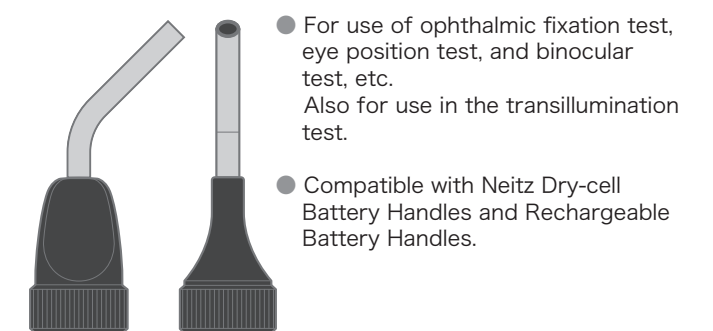
Charged via AC Adapter in the Delivery Set.



Charging Stand RC-III



Transilluminator TI



Basic Functions



Polarizing Filter

It is theoretically and experimentally confirmed that the corneal reflex in the fundus observation is minimized by inserting two polarizing filters with the polarization axes mutually perpendicular into the illumination system and observation system. However, the entire fundus image gets dark, and this is regarded as the drawback of this method.

To solve this point, Neitz made the polarizing filter in the observation system rotatable to achieve the best balance between the corneal reflex and the brightness of the fundus image by changing the angle at which two polarization axes cross each other.



Correction Lens

The Auxiliary Lens corrects the diopter from -36D to +35D in increments of 1D. The lens disc rotates endlessly and a large amount of change of the diopter is smooth.



Aperture Shutter

When ending to use the ophthalmoscope, shut the Aperture Shutter to prevent foreign materials from entering the optical system.



Direct-reading Diopter Indicator

Even when using the Auxiliary Lens for observation of high myopia or high hyperopia, the diopters on the correction lens can be read directly. The Diopter Indicator is illuminated and clearly readable in a dark room.



Illumination Dial

To select the small aperture for observation of macula, slit to recognize the roughness on the surface of the fundus, and the concentric scale. To use the cobalt blue filter for fluorescein examination to observe damage on the cornea, set the filter by turning the Illumination Dial.



Filters

By moving the Filter Lever, insert the polarizing filter and the red-free filter that makes red tissue such as blood vessels appear black into the illumination system. Both filters can be used with all functions selected via the Illumination Dial.