

Product Specifications

RXCLED Specifications

| | |
|---------------------------|---|
| Product Name | LED Streak Retinoscope RXLED |
| Generic Name | Retinoscope |
| Illumination Source | L-102 (a customized LED bulb) |
| Streak Variations | Divergent Streak, Parallel Streak, Convergent Streak |
| Streak Rotation | 360° Continuous Rotation |
| Battery | 1 pc. Lithium-ion battery (Type 18650, rated voltage 3.6V, 3350mAH) |
| Maximum Power Consumption | Below 2W (with the head attached) |
| Dimensions and Weight | 34(W)×269(H)×34(D) Approx.280g (including the rechargeable battery) |
| Optional Accessories | Presbyopic Lens (+1D, +2D, +3D, FID), Fixation Card Set RX |

RXRCSPLED Specifications

| | |
|---------------------------|---|
| Product Name | LED Spot Retinoscope RXSLED |
| Generic Name | Retinoscope |
| Illumination Source | L-103 (a customized LED bulb) |
| Head Attachment | To protect the examiner's eyeglasses during. |
| Battery | 1 pc. Lithium-ion battery (Type 18650, rated voltage 3.6V, 3350mAH) |
| Maximum Power Consumption | Below 2W (with the head attached) |
| Dimensions and Weight | 34(W)×266(H)×34(D) Approx.240g (including the rechargeable battery) |
| Optional Accessories | Presbyopic Lens (+1D, +2D, +3D, FID), Fixation Card Set RXSP |

RC-III Specifications

| | |
|-----------------------|---|
| 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) |

Classification

| | |
|---|---|
| Degree of protection against electric shock | Class II ME equipment |
| Applied parts | No applied parts |
| Degree of protection against harmful ingress of water or particulate matter | IPX0 |
| Method(s) of sterilization | Do not sterilize. |
| Suitability for use in an oxygen rich environment | Do not use in oxygen rich environments. |
| Mode of operation | Continuous operation |

Applied Standards

| | |
|------------------------------|--|
| Electric safety | IEC 60601-1:2020 |
| Electromagnetic disturbances | IEC 60601-1-2:2020 |
| Usability engineering | IEC 62366-1:2020 |
| Alarm system | IEC 60601-1-8:2020 |
| Biological evaluation | ISO 10993-1:2018 |
| Ophthalmic instruments | ISO 15004-1:2020, ISO 15004-2:2007, prISO 15004-2:2024 |
| Retinoscopes | ISO 12865:2006 |
| Medical device software | IEC 62304:2015 |
| Battery regulation | 2023/1542/EU |
| Hazardous substances | 2011/65/EU and 2015/863/EU |

Environmental Conditions

| | Use | Storage | Transport |
|-------------------------------------|---------------------|---------------------|---------------------|
| Temperature | +10 °C to +35°C | -10 °C to +55°C | -10 °C to +60°C |
| Relative humidity (no condensation) | 30 % to 90 % | 10 % to 95 % | 10 % to 95 % |
| Atmospheric pressure | 800 hPa to 1060 hPa | 500 hPa to 1060 hPa | 500 hPa to 1060 hPa |

Accessory

Carrying case



LED STREAK RETINOSCOPE

LED SPOT RETINOSCOPE

CHARGING STAND

RXCLED
RXRCSPLED
RC-III

The Features of LED Retinoscopes

3-8
TIMES

Brighter Illumination Field

The streak light model is about three to five times, the spot light model is five to eight times brighter than our halogen bulb models.

Easily visible screening even in a bright room.

SMOOTH

Smooth Light 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.

Ra:90

High Color-rendering LED

Ra: More than 90, R9: More than 50

Color temperature: 3000K

No need of light bulb replacement. Maintenance-free

LED lifetime: 50,000 hours

Li-ion

Powered by Li-ion Battery

The retinoscope can be stored in the table-top charger while charging.



Basic Functions



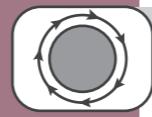
Pursuit of Visibility

The anti-reflection filter provides wide and clear field of view. This reduces the sense of fatigue due to a long-time use.



Pursuit of Usability

The streak can be easily set at the best position. The rotation and the width change of the streak are separately controlled. Rotating the streak does not affect the streak width. The lightweight retinoscope head rotates freely.



Free Streak Rotation

The streak rotates 360 degrees. You can rotate it from any position and is useful for measurement of the axis of myopia. Furthermore, the retinoscope is equipped with the Head Attachment Mount for eyeglasses wearers and the feature to attach a presbyopia lens easily.



Sharp Streak Light

The precision cut slit realizes the sharp and clear streak light.

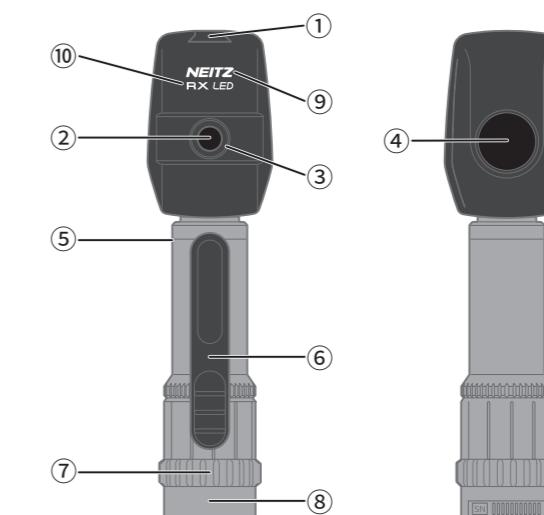


Fixation Card Set

The Fixation Card FC Set is available for use in dynamic retinoscopy. Consists of two fixation cards and a card holder. (Optional)

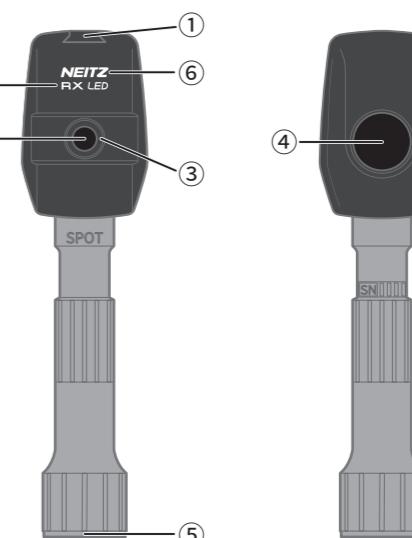
Various Functions

RXLED Head (Streak Retinoscope)



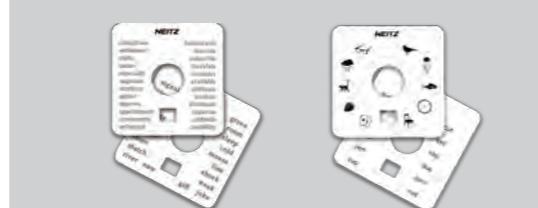
- ① Head Attachment Mount
- ② Viewing Window
- ③ Viewing Window Rim
- ④ Illumination Opening
- ⑤ Reference Line
- ⑥ Streak Adjustment Lever
- ⑦ Head Rotation Ring
- ⑧ Head Joint
- ⑨ Manufacturer's Logo
- ⑩ Model Logo

RXSPLED Head (Spot Retinoscope)



- ① Head Attachment Mount
- ② Viewing Window
- ③ Viewing Window Rim
- ④ Illumination Opening
- ⑤ Head Joint
- ⑥ Manufacturer's Logo
- ⑦ Model Logo

Fixation Card Set FC (Optional)



Two types of fixation card

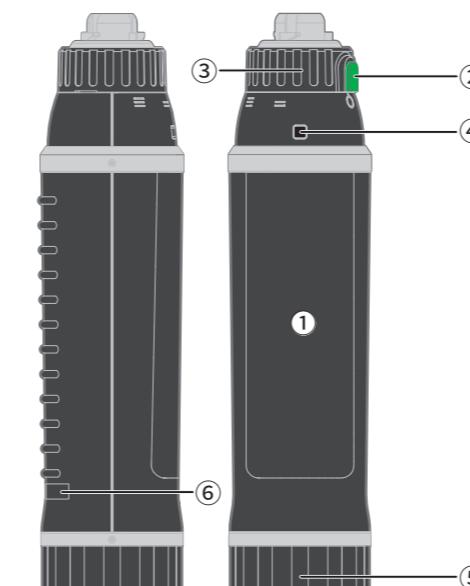


Card Holder RX



Card Holder RX-SP

LED Rechargeable Battery Handle



① LED Rechargeable Battery Handle (LH-1200)

② Switch Button

③ Switch Ring

④ Pilot Lamp

⑤ Bottom Cap with Built-in Battery Unit

⑥ Serial Number and Information Mark

⑦ Charging Port

⑧ LED Indicator

⑨ Manufacturer's Logo

⑩ Model Logo

⑪ USB Type Logo

⑫ USB Jack

⑬ Negative Contact

⑭ Positive Contact

Charging Stand

