Camera specifications

[Main specifications]

| | [| |
|--------------------|----------------------|--|
| | Effective pixels | : 2.13 mega pixels 1945 (H) x 1097 (V) pixels |
| | | CMOS colour image sensor IMX291(Sony) 1/2.8 inch 6.46mm diagonal |
| | Transfer method | : Progressive |
| | Shutter system | Rolling shutter |
| | Output image format | : MJPEG |
| | Data transfer system | : USB 2.0 (Hi Speed) |
| Maximum frame rate | | : VGA 640 x 480 Pixels : 30 fps |
| | | HD 1280 x 720 Pixels : 30 fps |
| | | FHD 1920 x 1080 Pixels : 30 fps |
| | Sensitivity (F5.6) | 1300 mV CMOS sensor characteristics typical value |
| | Driver | : Not needed. USB Video Class (UVC) compatible Windows10 |
| | Interface | : USB Mini-B |
| | Main IPS functions | Adjustment: exposure (auto & manual), colour temperature (auto & manual), gain, saturation, sharpness, |
| | | and gamma correction |
| | | : Power supply voltage 5.0 V (USB bus power) Maximum power consumption approximately 200mA |
| | Camera properties | : Brightness, contrast, hue, vividness, definition, gamma, gain, white balance, backlight correction |
| | | |

Capture Software

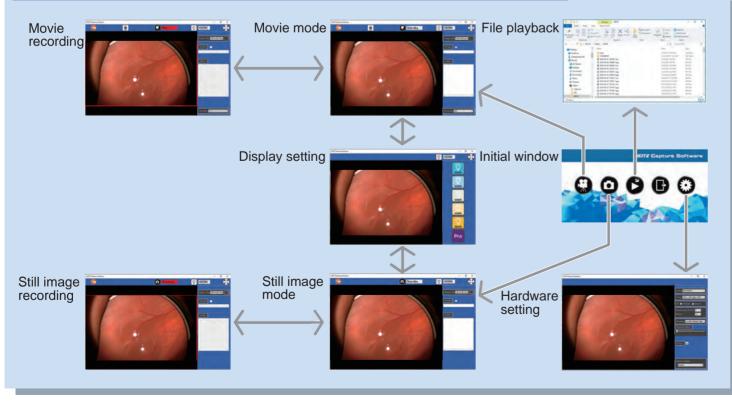
The special software to display and save the camera images is provided on a CD ROM. (For software details, refer to the user's manual provided separately.)

| Basic performance | | | | | |
|--------------------|---|---|--|--|--|
| Cameras | : | Compatible with USB cameras provided by Neitz. | | | |
| File format | : | Movie MP4 /AVI / (sound recordable) Still image JPG | | | |
| Resolution setting | : | Selectable from VGA, HD, or FHD | | | |
| Display languages | : | English and simplified Chinese | | | |
| Reverse image | : | Horizontal and vertical flip | | | |
| Colour temperature | : | Selectable from 6000/5500/5000/4500/3300 K (in the simple setting window) | | | |
| Flicker setting | : | 50/60Hz OFF | | | |
| | | | | | |

System requirements and operating system

Windows 10 Memory : 8 GB or more CPU : Core i7 Clock frequency 2 .5 GHz or more Monitor : Full HD 1920 x 1080 or more recommended

Special Capture Software for SC-1 (NEITZ Capture Software)





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Neitz Binocular Indirect Ophthalmoscope with Camera IO- α LED CAMERA

Full HD 1080 High Resolution Camera SC-1 Series







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662 15 10 979



Capable of live streaming and to record fundus image accurately and precisely with sound.

The Neitz binocular indirect ophthalmoscope with camera IO-α LED CAMERA is a system of ophthalmoscope and highly sensitive FHD digital camera with the latest CMOS image sensor.

IO-α LED CAMERA is capable to provide and record the fundus image in still and motion picture.

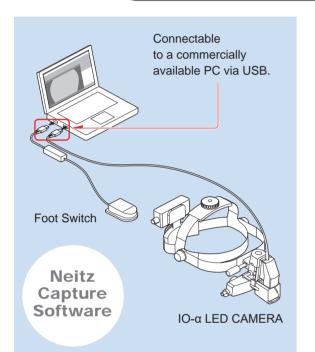
IoT live streaming allows to share the digital image and sound realistically in the place where you want; in a treatment, training or operation room, even in a distant area or disaster site.

Sharing more recorded visual and audio data will serve for training of trainee doctors and medical staff.

Digital images will be also useful when explaining to the patient and family members.

The high-quality digital imaging solutions of Neitz support to streamline the medical services and medical safety measures.

Features of IO-α LED CAMERA



- High quality and high definition image

A highly sensitive FHD camera system equipped with the latest CMOS image sensor that tracks and records the details with precision.

- Reproducibility with natural colours and textures Provides clear and high-definition images while reducing image degradation.

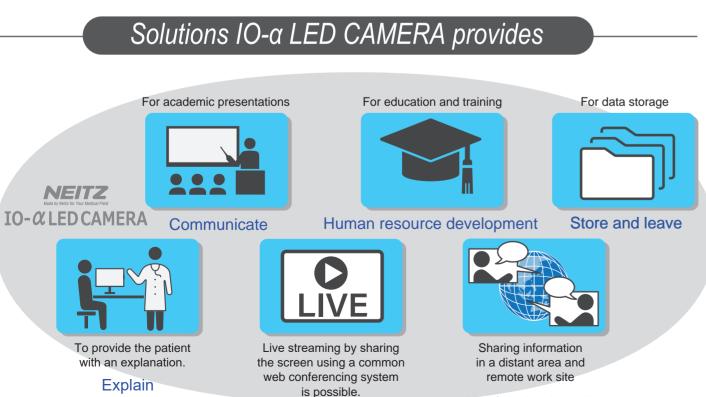
The user can use at ease in a medical setting where high level of reproducibility is required.

- The original Neitz Capture Software

The image system operations of the originally developed Neitz Capture Software is integrated into icons to save the effort to initialize the settings.

- The ultimate sensitivity effective to use for pediatric retinal diseases

The ultimate sensitivity allows to record an image of an eye with a small diameter. Suitable for observing the fundus of pediatric retinal diseases such as a retinopathy of prematurity and active stage classification. Allows also observing the fundus of infants in NICU.

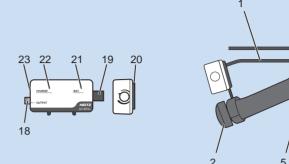


Sharing in real-time

Useful also in a distant area and remote work site

Neitz Binocular Indirect Ophthalmoscope with Camera $IO-\alpha$ LED CAMERA

Full HD 1080 High Resolution Camera SC-1 Series

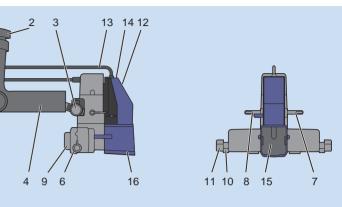


Product specifications

| Device type | | Portable ME equipment |
|--|---------------------------------|---|
| Type of protection against electric shock | | Internally powered ME equipment |
| Classification of applied parts | | No applied part |
| Degree of protection against harmful ingress | of water and particulate matter | Device: IPX0 Foot Switch (pedal): corresponding to IP 28 |
| Sterilization method | | Not sterilizable |
| Suitability for use in high oxygen concentrati | on environments | Cannot be used in high oxygen concentration environments. |
| Operation mode | | Continuous operation |
| | | |
| 1. Connection cable Connects the warm white LED of t | | f the light source and the battery pack. |

| 1. Connection cable | Connects the warm whit |
|---|--|
| 2. Headband size adjustment knob | Tightens and loosens th Headband circumferenc |
| 3. Camera unit fixation knob | Adjusts the vertical posit |
| 4. Overband | Connects the camera un |
| 5. Overband fixation knob | Adjusts the angle of the |
| 6. PD adjuster | Adjusts the pupil distance |
| 7. Aperture selection lever | Switches the illumination |
| 8. Filter selection lever | Selects between three fi |
| 9. Eyepiece | With built-in +1D lens (+ |
| 10. Illumination angle adjustment lever | s Adjusts the illumination a |
| 11. Observation angle adjustment leve | rs Adjusts the observation |
| 12. Camera cover | Contains the CMOS ima |
| 13. Output cable | 3 m USB cable |
| 14. Camera focus lever | Adjusts the focus of the |
| 15. Half mirror | Makes the shooting axis |
| 16. Half mirror frame | Contains the half mirror. |
| 17. Dimensions and weight | 164 x 116.5 x 102.5 mm |

| 18. Output jack | Connects to the light plug of the |
|----------------------------------|--|
| 19. Illumination switch | Turns illumination on/off and allo |
| 20. Battery pack fixation catch | Keeps the battery pack in place |
| 21. Battery lamp | The colour of the lamp indicates |
| 22. Charge lamp | Lights orange during charging an |
| 23. Charge jack | Connects to the AC Adapter for |
| 24. Internal battery | Lithium-ion battery (3.7 V). |
| 25. Charging time | Approximately 2 hours at maxim |
| 26. Output | DC 5 V. |
| 27. Battery life | According to the battery specific |
| 28. Illuminance | Approximately 600 lx at maximu |
| 29. Continuous illumination time | Approximately 5 hours at maxim |
| 30. Dimensions and weight | 90 x 45 x 30 mm (without protrus |
| 31. AC adapter | Type: SMI-10-5-V-I38 Power input: AC 100 V to 240 V |
| | |



he headband. Located at the top and rear of the headband.

ce: 520 to 640 mm (range of motion)

ition and angle of the camera unit by loosening it.

nit and headband

overband by loosening it.

ce (PD). Adjustment range: 54 to 74 mm.

on field diameters to 19 mm, 39 mm or 60 mm.

filters (UV, red-free, cobalt blue)

+2D lens for export model).

angle. Located on both sides of the camera unit and move in conjunction. angle. Located on both sides of the camera unit and move in conjunction. age sensor and the optical systems.

CMOS camera.

s and the observation axis nearly coaxial.

n (without headband) / approximately 730g

camera unit.

ows for continuous intensity adjustment by rotating it.

on the headband.

the remaining battery capacity (green, orange, or off).

ind changes to green when fully charged.

charging.

num.

ations

m, approximately 300 lx at the middle position (when using the UV filter)

num intensity

isions) / approximately 90 g

, 0.3 A, 50 Hz to 60 Hz, DC 5 V 2.0 A