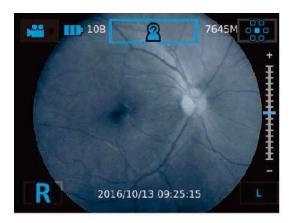
Video mode

Video mode: Completely press the OK button to start recording. Press again to end recording. For DEC 100 and EEC 100, the default setting in video mode of "Aiming Light/Capture Light" is "White/White LED." During the video shooting, user can press "the brightness adjustment key +" to enhance the white LED for two seconds. It helps capture brighter motion pictures within a video.



NOTE

When recording videos, please do not remove or insert the SD card and delete pictures, otherwise the system will be abnormal.

Examination conditions of DEC 100 and EEC 100

Examination conditions

After the optical lens, DEC 100 or EEC 100, is attached to the control unit and setup is complete, the user can start taking images. Approaches for taking the image of human eye fundus are as follows:

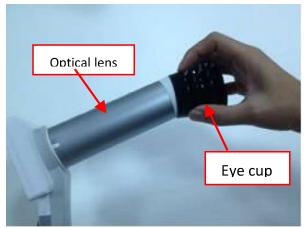
• Have the examinee stay in <5 lux dark room; in such an environment, a newspaper is nearly impossible to see. Remove the patient's glasses. Make sure that the eye's pupil has a diameter larger than 4mm, or be sure to sufficiently dilate in advance.

Eye Cup Installation

Step 1: Put the eye cup on the front of optical lens.

Step 2: If you want to change the direction of mask wing, one hand holds the lens, the other hand rotates mask to the direction you wanted. The idea is using the mask wing

Step.1

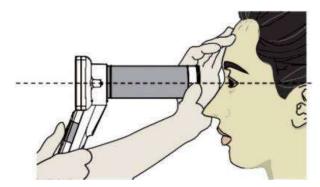


Step.2



Holding position

Holding the control unit with one hand and use the other hand to hold the front side of the lens. Maintain the lens at the same height of the eye being examined. To stabilize the lens, rest the lens on the part of the hand between the thumb and index finger and put your middle and index fingers on the examinee's forehead, as showed in the following image.

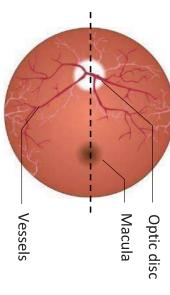


View the examined eye keeping the lens horizontal to the examined eye. Then move forward slowly until you can see the optic disk in the controller screen. (For sanitary reasons, make sure the controller lens does not touch the patient's eyes or nose.)

Q&A troubleshooting of DEC 100 and EEC 100

A good image should have two characteristics:

- Positions
 The macula and the optic disc are horizontally aligned in the middle.
- High contrast The macula, optic disc, and vessels are all clear.



If the above characteristics can't be found in the shot, possible failures might be the following:

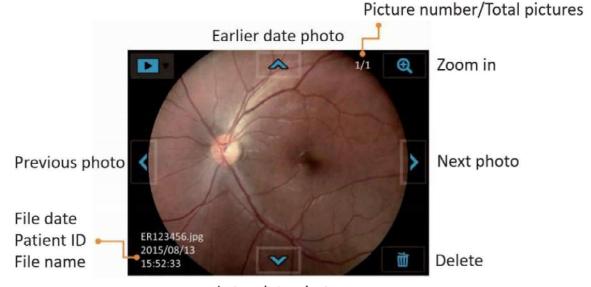
The lens is much higher than the visual axis. The lens is too far away from 4. Dark shadow on the bot-1. Small fundus image the examinee's eye. tom of the image 2. White hot spot on the top 3. Dark shadow on the top of the image The lens is too close to the Eyelashes are in the light 5. Line or spot within the examinee's eye. of the image path. The lens is much lower than 6. Blue or white shadow on the bottom of image Cornea reflection the visual axis.

Playback

Display mode

Touch the photo icon and then the display icon to see the photos that have been taken.

Display mode:

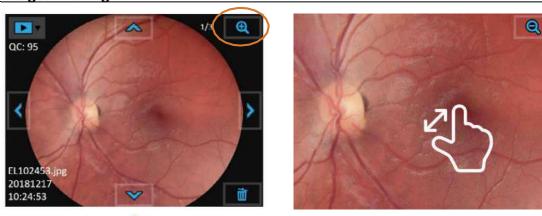


Later date photo

Click the left or right arrow symbol to go to the previous or next photo, respectively. Click the up or down arrow symbol to backward or forward in days. Click zoom in icon and using two fingers to zoom in and out with pinching. Tap Zoom icon again to return the original scale. Click delete icon to delete photos.

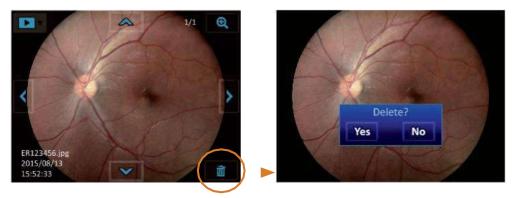
The device does not support the video file display on the control unit. Please download the video file (.avi) to the computer to watch.

Enlarged viewing



Click zoom in icon and using two fingers to zoom in and out with pinching. Tap Zoom icon again to return the original scale.

Deleting pictures



Tap the delete icon to delete the image. By using the "delete" functions on your camera, this only changes the file management information and does not completely the data from the memory card. When disposing of or transferring your memory cards, we recommend physically destroying them or using commercially available computer data erasing software to completely delete the data from the card.

Miscellaneous

Files transferring

Transfer images to an electronic device (e.g., personal computer, laptop, or mobile phone) via the USB cable or SD card.

It is the health care provider to protect patient health information and to meet regulatory and HIPAA compliance. The images on DSC 300P may contain identifiable patient information and it is the responsibility of the health care provider to ensure that data safeguards are implemented to protect patient health information.

Viewing on a computer/laptop screen

Turn on UVC mode to simultaneously view images both on LCD panel and the computer/laptop screen.

Viewing on a TV screen

Connect the camera and a TV through a Micro HDMI cable, you can simultaneously view live images on both sides.

UVC and HDMI

Photo mode:

When UVC was on and connected with the USB cable, HDMI will be turned off.

Video mode:

UVC and HDMI always be off.

Preview and playback mode:

HDMI always be off. When UVC was on and connected with the USB cable, UVC will be on.

Technical description

MiiS Horus Scope DSC 300P, control unit:

| Focus | Manual focus |
|---|---|
| Picture Resolution | 2560 x 1920 pixels |
| Video Resolution | 2592x1944 pixels (5M) CMOS |
| LCD Monitor | 3.5" TFT LCD |
| Image Format | JPEG (Photograph) and H.264 (Video) |
| Interface | Mini USB, HDMI, HDMI 2m |
| File Transfer | Mini USB Port to PC, USB 1.8m |
| Dynamic Video Output | Composite AV out, or USB live video enable from USB port |
| File Storage | Memory card, default 8GB. Supports 2 G to 32 GB by FAT32 Format. |
| Dimension | (L)202.5±5% x (W)89 ±5% x (H)79 ±5% mm |
| Weight | 275±5% Grams |
| Power Source | Rechargeable Lithium Battery 3.6V / Capacity 3350 mAh |
| External Power | Source: 100~240 VAC, 50/60 Hz |
| Power Adapter Spec. | Input Spec.: 100-240Vac, 0.6-0.3A, 50-60Hz; Output Spec.: 5V DC, 1.2A |
| Charging station Input Spec. | 5V DC, 1.2 A |
| Operating Time | Standby mode: 6 hours Operating mode: 2~4.5 hours (Depend on optical lens used) |
| Charging Time | 6 hours by DSC 300P |
| Expected service life (defined by manufacturer) | 5 years from the date of initial operation *Proper maintenance is necessary. |

MiiS Horus Scope DOC 300S (Digital Otoscope)

• Focus Range : 7~20 mm (Typical)

• Dimension: 4.3 X 4.3 X 7 cm (Typical)

Weight: 69 Grams (Typical)

Camera / video light source : Natural White Light Emitting Diode (LED)

MiiS Horus Scope DOC 100S (Digital Otoscope)

• Focus Range : 5~50 mm (Typical)

• Dimension: 4.3 X 4.3 X 7 cm (Typical)

Weight: 69 Grams (Typical)

Camera / video light source : Natural White Light Emitting Diode (LED)

MiiS Horus Scope DEC 100 (Digital Eye Fundus Camera)

- View Angle : 40 Degree (Typical)
- Diopter : -20 ~ +20D (Typical)
- Dimension: 4.3 X 4.3 X 10.7 cm (Typical)
- Weight: 141 Grams (Typical)
- Search Fundus Lighting :Two modes, natural white Light Emitting Diode (LED) or infrared LED
- Camera / video flash light: Natural White Light Emitting Diode (LED)

MiiS Horus Scope EEC 100 (Digital Eye Fundus Camera)

- View Angle : 25 Degree (Typical)
- Diopter : -20 ~ +20D (Typical)
- Dimension: 4.3 X 4.3 X 10.7 cm (Typical)
- Weight: 111 Grams (Typical)
- Search Fundus Lighting: Two modes, natural white Light Emitting Diode (LED) or infrared LED
- Camera / video flash light : Natural White Light Emitting Diode (LED)

MiiS Horus Scope DEA 200P (Digital eye anterior camera)

- View Area: Wind End (H) 23.88*(V) 17.71 mm (typ.±5%)
 - Tele End (H) 11.88*(V) 8.91 mm (typ.±5%)
- Working Distance: 80mm (Typical)
- Illumination Angle: ±45 degree (typ.±5%)
- Slit Length: $10mm (typ.\pm 10\%)$
- Slit Width: 0.2~10 mm
- Slit Width Selection: ≤0.2, 0.2, 0.5, 2.0, 5.0, Φ10 mm
- Filter: Transparent, Cobalt blue, Red-free (Green)
- Light: Conform to group II of ISO 15004-2:2007
- Weight: 580 Grams (Typical)

MiiS Horus Scope DEA 100 (Digital Anterior Scope)

- View Angle: 11 mm (V)*19.6 mm (H)*22.47 mm (Diagonal)
 @Working Distance 30 mm (Typical)
- Dimension : 4.3 X 4.3 X 4.5 cm (Typical)
- Weight: 48 Grams (Typical)
- Camera / video light source : Natural White Light Emitting Diode (LED)
- LED Switching Button: Switch to blue LED by the LED Switching Button to take fluorescence image of cornea.

MiiS Illumination Light Source ILS 100

- View Area: 25.02 mm (Typical)
- Working distance : 80mm
- Weight: 38 Grams (Typical)
- Illumination Angle (degrees): ± 45 degree (Typical)
- Slit Length (mm): 10 mm (Typical)
- Min Slit Width (mm): <0.2 mm

- Max Slit Width (mm): Equal to slit length (10mm)
- Slit Width Selection : <0.2, 0.2, 0.5, 2, 5, φ10 mm
- Filter: Transparent, Cobalt Blue, Red-free (Green)
- Light: Conform to Group II of ISO 15004-2:2007(E)
- Weight: 345g (typ., include Forehead stopper)
- Dimension: 178mm x 160mm x 107mm
- Power source : Rechargeable Li-ion Battery 3.7V/800mAh (2.96Wh)
- Operation time : 90 minutes for continuously use

MiiS Horus Scope DDC 200 (Digital Dermatoscope)

- View Angle : 20 mm diameters (Diagonal) (Typical)
- Dimension: 5.5 X 5.5 X 3.45 cm (Typical)
- Weight: 65 Grams (Typical)
- Camera / video light source : Natural White Light Emitting Diode (LED)
- Polarization function : Polarized light changed by the switch on lens

MiiS Horus Scope DDC 100 (Digital Dermatoscope)

- View Angle: 10 mm diameters (Diagonal) (Typical)
- Dimension: 4.5 X 4.5 X 5.6 cm (Typical)
- Weight: 114 Grams (Typical)
- Camera / video light source : Natural White Light Emitting Diode (LED)
- Polarization function : Polarized light changed by the switch on lens

MiiS Horus Scope DGC 100 (Digital Speculum)

- View Angle: 88 Degree (Diagonal) (Typical)
- Dimension: 4.3 X 4.3 X 2.4 cm (Typical)
- Weight: 48 Grams (Typical)
- Camera / video light source : Natural White Light Emitting Diode (LED)

MiiS Horus Scope Adapter 300, Endoscope adapter

- Dimension: 5 X 5 X 1.8 cm (Typical)
- Weight: 38 Grams (Typical)

Liability

Manufacturer considers itself responsible for the effects on safety, reliability, and performance of the device only if

- Assembly operations, extensions, readjustments, modifications or repairs are carried out by persons authorized.
- The electrical installation of the relevant room complies with the requirements.
- The equipment is used in accordance with these instructions for use.

Disposition



Follow the local governing ordinances and recycling plans regarding disposal or recycling of device components, especially when disposing of the lithium ion battery, circuit board, plastic parts that contain brominated flame retardant, LCD, or power cord.



Follow the local governing ordinances and recycling plans when disposing of the circuit board with the lithium battery. Inappropriate disposal may contaminate the environment.



When disposing of packing materials, sort them by material and follow local ordinances and recycling regulations.



Inappropriate disposal may contaminate the environment.



When disposing of eyecup, follow the disposal procedures for medical waste such as needles, infusion tubes, and metal instruments for surgery as specified by your medical facility to avoid infection outside the facility and environmental pollution.

Symbols and standards

Symbols



Caution must be taken. Read user manual before use.



Type BF indicates the device is classified as a device with a Type BF applied part.



The operator is advised to read the instructions of user manual.



Mandatory - Consult Directions for Use



Manufacturer



Date of Manufacture



Medical Prescription



CE mark



European Authorized Representative



Disposal of noncontaminated electrical and electronic equipment



This product had an internal rechargeable battery with a Class II power supply.

Standards

| Electrical safety | IEC 60601-1:2005+A1:2012 (EN 60601- 1:2006+A1:2013) |
|--|---|
| EMC and regulatory compliance | IEC 60601-1-2:2014 (EN 60601-1-2:2015) |
| Ophthalmic instruments-Fundamental requirements and test methods Part 2: Light hazard protection | ISO 15004-2:2007 |
| Ophthalmic instruments - Fundamental requirements and test methods - Part 1: General requirements applicable to all ophthalmic instruments | ISO 15004-1:2006 |
| General radio compliance | Federal Communications Commission (FCC) Innovation, Science and Economic Development Canada's (ISED) National Communications Commission (NCC) |

Equipment connected to the analog or digital interfaces must be certified according to the
representative appropriate national standards (such as EN 60601-1 and IEC 60601-1).
Furthermore, all configurations shall comply with the system standard IEC 60601-1. Anyone
who connects additional equipment to the signal input part or signal outputpart configures
a medical system and is therefore responsible for the system complying with the
requirements of the system standard IEC 60601-1. If in doubt, consult the technical service
department of your local representative.

IC

Innovation, Science and Economic Development Canada

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Innovation, Sciences et Développement économique Canada

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NCC

第十一條

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自 變更頻率、加大功率或變更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。

前項合法通信,指依電信法規定作業之無線電通信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干 擾。

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

SAR

The device is designed and tested to meet the applicable limits for radio frequency (RF) exposure established by the Federal Communications Commission (U.S.A.) Specific Absorption Rate; (SAR) refers to the rate at which the body absorbs RF energy. The minimum allowable SAR distance is 5 mm, and the maximum allowable SAR limit is 4.0 W/kg, averaged over 10 gram of tissue for the device.

L'appareil est conçu et testé pour respecter les limites applicables aux fréquences radio (RF) exposition établie par la Federal Communications Commission (États-Unis).

Taux d'absorption; (SAR) fait référence à la vitesse à laquelle le corps absorbe de l'énergie RF.

La distance DAS minimale autorisée est de 5 mm et la limite DAS maximale admissible est de 4,0 W / kg, avec une moyenne de 10 grammes de tissu pour le périphérique.

EMC (Electromagnetic Compatibility)

The device complies with the International Electrotechnical Commission standards (IEC 60601-1-2: 2014) for electromagnetic compatibility as listed in the tables below. Follow the guidance in the tables for use of the device in a Professional Healthcare Environment.

EMC (IEC 60601-1-2: 2014)

| Guidance and manufacturer's declaration - electromagnetic emissions | | | | | |
|---|---------|---|--|--|--|
| The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment. | | | | | |
| Emissions test Compliance Electromagnetic environment - guidance | | | | | |
| RF emissions CISPR 11 Group 1 | | The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. | | | |
| RF emissions CISPR 11 | Class B | | | | |

| Harmonic emissions IEC 61000-3-2 | Class A *1 | The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public |
|---|---------------|--|
| Voltage fluctuations/ Flicker emissions IEC 61000-3-3 | *2 | low voltage power supply network that supplies buildings used for domestic purposes. |

^{*1} For the regions where the rated voltage is 220 V or greater, this device complies with class A. For the regions where the rated voltage is 127 V or less, this standard is not applicable.

^{*2} For the regions where the rated voltage is 220 V or greater, this device complies with this standard. For the regions where the rated voltage is 127 V or less, this standard is not applicable.

Guidance and manufacturer's declaration - electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|---|--|---|--|
| Electrostatic Discharge (ESD) IEC 61000-4-2 | ±8 kV contact ±2, 4, 8, 15 kV air | ±8 kV contact ±2, 4, 8, 15 kV air | Floor should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. |
| Electrical fast transient/burst IEC 61000-4-4 | ±2 kV for power supply lines ±1 kV for input/output lines | ±2 kV for power supply lines ±1 kV for input/output lines | Mains power quality should be that of a typical commercial or hospital environment. |
| Surge IEC 61000-4-5 | ±0.5, 1 kV line(s) to line(s); ±0.5, 1, 2 kV Line to ground | ±0.5, 1 kV line(s) to line(s); ±0.5, 1, 2 kV Line to ground | Mains power quality should be that of a typical commercial or hospital environment. |
| Voltage, dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11 | $0\%~U_T$ for 0.5 cycle (1 phase) $0\%~U_T$ for 1 cycles $70\%~U_T$ for 25/30 cycles (50/60 Hz) $0\%~U_T$ for 250/300 cycles (50/60Hz) | $0\%~U_T$ for 0.5 cycle (1 phase) $0\%~U_T$ for 1 cycles 70% U_T for 25/30 cycles (50/60 Hz) $0\%~U_T$ for 250/300 cycles (50/60Hz) | Mains power quality should be that of a typical commercial or hospital environment. If the user of the device requires continued operation during power mains interruptions, it is recommended that the device be powered from an uninterruptible power supply or a battery. |
| Power frequency (50 or 60 Hz) magnetic field IEC 61000-4-8 | 30 A/m (50 or 60 Hz) | 30 A/m at 50 Hz | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |

NOTE: U_T is the a.c. mains voltage prior to application of the test level.

| Guidance and | manufacturer's | declaration | - electromagnetic immunity |
|--------------|----------------|-------------|----------------------------|

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should assure that it is used in such an environment.

| Immunity test | IEC 60601 test level | Compliance level | Electromagnetic environment - guidance |
|-------------------------------|---|---|---|
| Conducted RF IEC 61000-4-6 | 3 Vrms at 0.15 – 80 MHz & 6V at ISM Frequency | 3 Vrms at 0.15 – 80 MHz & 6V at ISM Frequency | Portable and mobile RF communications equipment should be used no closer to any part of the device, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. Recommended separation distance $E = \frac{6}{d} \sqrt{P}$ |

| | | | where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). |
|------------------------------|--|--|--|
| Radiated RF IEC 61000-4-3 | 3 V/m 80 MHz to 2.7 GHz 80% AM at 1kHz | 3 V/m 80 MHz to 2.7 GHz 80% AM at 1kHz | Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol: |

| Test specifications for enclosure port immunity to RF wireless communications equipment | | | | | | | |
|---|-----------------------|----------------------|---|----------------------|--------------|---------------------------------|--|
| Test frequency (MHz) | Band ^a MHz | Service ^a | Modulation ^b | Maximum power (W) | Distance (m) | Immunity test level (V/m) | |
| 385 | 380-390 | TETRA400 | Pulse modulation ^b 18 Hz | 1.8 | 0.3 | 27 | |
| 450 | 430-470 | GMRS460, FRS460 | FM°±5kHz deviation 1 kHz sine | 2 | 0.3 | 28 | |
| 710 | 704 -787 | LTE band 13,17 | Pulse modulation ^b | 0.2 | 0.3 | 9 | |

| | Test spec | cifications for enclosure port immunity | to RF wireless communications | equipme | ent | |
|------|-----------|---|--------------------------------------|---------|-----|----|
| 745 | | | 217 Hz | | | |
| 780 | | | | | | |
| 810 | 800-960 | GSM 800/900, TETRA800, i DEN 820, | Pulse modulation ^b 18 Hz | 2 | 0.3 | 28 |
| 870 | | CDMA 850, LTE Band 5 | | | | |
| 930 | | | | | | |
| 1720 | 1700-1990 | GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1,3,4,25; UMTS | Pulse modulation ^b 217 Hz | | | |
| 1845 | | | | | | |
| 970 | | | | 2 | 0.3 | 28 |
| 2450 | 2400-2570 | Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7 | Pulse modulation ^b 217 Hz | 2 | 0.3 | 28 |
| 5240 | 5100-5800 | WLAN 802.11 a/ n | | | | |
| 5500 | | | Pulse modulation ^b 217 Hz | 0.2 | 0.3 | 9 |
| 5785 | | | | | | |

^a For some services, only the uplink frequencies are included.

^c As an alternative to FM modulation, 50 percent pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.



WARNING Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

The minimum separation distance for higher immunity test levels shall be calculated using the followin equation: $E = \frac{6}{P}$, where P is the maximum power in watts (W),d is the minimum separation distance in meters [m),

and Fis the immunity test level in V/m.

^b The carrier shall be modulated using a 50 percent duty cycle square wave signal.

Please visit www.miis.com.tw for more information.



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