

Dermatoscope

IDS-9100

INSTRUCTION MANUAL



ILLUCO

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Introduction

The ILLUCO Dermatoscope IDS-9100 is a handheld LED dermatoscope equipped with polarized and UV light illumination. The IDS-9100 is designed exclusively for the external examination of the skin.

The outstanding feature of IDS-9100 like

- 12x-magnification
 - UV light illumination
 - 20mm large field of view
 - 10mm scale for measurement
 - Cross-polarized and parallel-polarized light illumination
 - 4 levels of brightness control
 - Comfortable, ergonomic hand grip with functional buttons and an easy-to-use focusing dial
 - Magnetic smartphone connection kit for digital dermoscopy
- Will help the users for more effective and comfortable work in skin examination.



For U.S. only

Federal Law restricts this device to sale by (or on) the order of a physician or practitioner.

Intended Applications

The IDS-9100 has numerous applications:

- Early detection of melanoma
- Diagnosis of skin tumors
- Scabies and pubic louse
- Warts
- Fungal infections
- Hair and scalp diseases
- Vitiligo

Safety Precautions



Before using the IDS-9100 for the first time, please read the manual thoroughly. The manufacturer and distributors are not liable for mechanical issues, property damage, or personal injury resulting from the user's failure to follow the instructions in the manual.

The IDS-9100 is designed for external examination only.

- ⚠ Do not look directly at the LED light or UV light.
- ⚠ Patients must close their eyes during facial examinations.
- ⚠ Handle with care, and do not apply excessive pressure when adjusting the focus dial.
- ⚠ The IDS-9100 is a magnetically embedded device.
Do not use it near devices that are susceptible to magnetic interference.
- ⚠ The IDS-9100 contains a lithium-ion battery. Handle the device carefully to avoid damage from external shock. Do not use or store the IDS-9100 in environments with abnormal temperatures (too hot or too cold).
- ⚠ When quickly heating a room, condensation may form on the internal lens.
Do not use the IDS-9100 until the condensation has naturally dissipated.
- ⚠ This device generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to other nearby devices. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference, which can be determined by turning the device off and on, the user is encouraged to correct the interference by one or more of the following measures:
 1. Reorient or relocate the device
 2. Increase the distance between devices

Environmental Safety Considerations



Wet and moisture environments:
(Do not operate the IDS-9100
with wet hands)



Harsh shock and vibration
environments



High temperature variations:
(Operating temperature /
humidity / pressure :
10 ~ 35°C / 30 ~ 75% /
700 ~ 1060hPa)



Dry and dusty environments:
(Dust particles can enter into
the device. Clean the device
frequently.)



Near heating devices:
(Do not place the IDS-9100
near a heating device)



Do not open or dismantle the IDS-9100.
The manufacturer will not be
responsible for any errors or damage
whatsoever caused by opening or
dismantling the device.

Symbols Key

Do not look directly at LED light

Brightness control button

Authorized Representative
in the European

Charging Status

Caution

CE marking

Parallel polarization light

Direct current

Serial number

UV light

Consult instructions for use

Date of manufacture

Cross polarization light

Collect separately

Manufacturer

Technical Specifications

Dermatoscope IDS-9100

Polarization	Cross& Parallel
Coating	BBAR (Broad Band Anti Reflection) Coating
Magnification	12 x
Brightness Control	4 Levels
Adapter for Smartphone	Available
LED	White LED: 16 / UV LED: 4
Function buttons	Polarization(CP) Non-polarization(PP) UV Brightness Control Power on/off
Contact & Non-Contact Examination	Yes (a detachable protect glass)
Battery	Rechargeable lithium-ion 3,500mAh/3.6V
Charging time	5 Hours
Continuous duty time	3 Hours 35 Minutes (Automatic shut down after 3 min. idle run)
Charging terminal	USB - C
Net Dimensions / Weight	169*58*35.7(mm) / 306g

Parts Description



Directions for Use

- ① Hold the IDS-9100 with the magnifying lens (ML) facing upward.
- ② Press the power dial button (PDB) to immediately turn on the LEDs.
- ③ Place the protective glass (PG) on the lesion to be examined.
You can also open the protective glass (PG) for non-contact examination to avoid direct contact with the affected area.
- ④ Position your eye close to the magnifying lens (ML).
- ⑤ Turn the focus dial (FD) forward or backward to obtain the desired image focus.
- ⑥ To change the polarization mode, briefly press the power dial button (PDB).
- ⑦ To adjust LED brightness, rotate the power dial button (PDB).
 - To visualize fluorescence structures, tap the UV button (UV). Tap again to return to the previous mode.
- ⑧ Examine the skin lesion.
- ⑨ If necessary, measure the size of the lesion using the scale on the lens.
- ⑩ After the examination, press and hold the power dial button(PDB) for 2 seconds to turn off the LEDs.



This device may only be used together with accessories supplied by ILLUCO Co., Ltd.
If the customer makes use of other accessories, use them only if their safe usability under technical aspect has been proved and confirmed by ILLUCO Co., Ltd.

Smartphone and Tablet Adapter

- ① The Compact Universal Clamp can be used with any smartphone or tablet.
- ② Attach the adapter to either a smartphone or a tablet.
- ③ Adjust the hole position according to the size of the device and the location of its main camera.
- ④ Open the camera application.
- ⑤ Follow steps ⑤, ⑥, and ⑦ under “Directions for Use,” and examine the lesion directly on your device.
- ⑥ You can enlarge the lesion for a more detailed view and capture images as needed.

Non-Contact Examination (Removing the Protect Glass)

You can remove the protective glass (PG) for non-contact examinations.
The protective glass can be easily removed using your fingernail.

Note

- Do not look directly at the LED light. Patients must close their eyes during facial examinations.
- Before and after each examination, clean the protective glass with the provided lens cloth.

Battery and Charging

Note

IDS-9100 uses a lithium-ion battery designed solely for ILLUCO IDS-9100. It is to be purchased from ILLUCO or from an authorized ILLUCO dealer. Using a battery other than the one designed for the IDS-9100, can cause damage to the unit.

A Charging Indicator

There are four LED indicators that show the IDS-9100's charging status.

All 4 LEDs on: fully charged.

3 LEDs on : less than 75% of battery life remaining

2 LEDs on: less than 50% of battery life remaining

1 LED on: less than 25% of battery life remaining

B Charging Method

- Connect the supplied USB-C cable directly to the charging port (CP) on the device.

- Alternatively, place the IDS-9100 main unit on the charging cradle (CC).

- When charging is complete, all four indicator LEDs will illuminate.

- The charging time is approximately **5 hours**.

- When fully charged, the device can operate continuously for up to **5 hours**.

Do not use the IDS-9100 while it is charging.

Note

After ca. 6 months of proper use, the battery capacity will be decreased to the point where it may be more convenient to replace the battery.

Note

Disposal : This device contains electronics and a lithium-ion battery, both of which must be separated for disposal and may not be discarded with general household waste.
Please observe local disposal regulations.

Sleep Mode

In order to save on electrical consumption, the IDS-9100 is designed to shut down the power automatically after 3 min. idle run.

Maintenance

The lenses and polarization filters installed on the IDS-9100 must be treated as high quality optical parts. Use only suggested cleaning disinfectant for cleaning and protect from harmful chemicals. The hygienic preparation is the responsibility of the user, or a qualified person responsible for processing. The specific application situation of the IDS-9100, internal practice or hospital specification as well as national laws, standards and guidelines must be considered.

PREPERATION

- Turn off the dermatoscope and cool down it for a while.
- Remove the protect glass from the dermatoscope.

DISINFECTION / CLEANING MANUAL

- Make sure that all surfaces are entirely wetted for the complete exposure time recommended by the disinfectant manufacture. Increase the wiping procedures if necessary.

Disinfectant:

- ① Do not use any kind of disinfectants other than recommended items.
- ② alcoholic, quaternary ammonium compounds, or alcoholic + quaternary ammonium compounds.

Carrying Out:

- ① Clean the dermatoscope and protect glass manually.
- ② Wipe all surfaces of dermatoscope completely until the contamination cannot be seen, at least 3 times with a new disinfectant wipe each time.
- ③ Be especially careful with the parts that is hard to reach.
- ④ Make sure that no cleaning agents or other liquids get inside the dermatoscope.
- ⑤ Wipe all surfaces of protect glass completely with circular movements until the contamination cannot be seen, at least 3 times with a new disinfectant wipe each time.
- ⑥ Remove the disinfectant residues and dry the protect glass according to the instructions provided by the disinfectant manufacturer.

Functioning Test:

- ① Make sure dermatoscope is functioning correctly before using it.
- ② Check the dermatoscope for any visible contamination or wear and reprocess it if necessary. If the contaminants cannot be eliminated, try to dispose it.

Storage:

- ① Store the dermatoscope in a place that can avoid the recontamination, dust and moisture.

Troubleshooting Guide

Note

The IDS-9100 is reliable and designed for trouble-free operation. Never attempt to open or dismantle the device for any reason. The manufacturer and distributors are not liable for mechanical issues, property damage, or personal injury resulting from the user's unfamiliarity with the instructions in the manual.

① No Power Supply

Recharge the battery and turn the device on again. If the problem persists, please contact the ILLUCO A/S Center or your local distributor.

② Charging Not Working

Try using a different charging cable. If the problem persists, please contact the ILLUCO A/S Center or your local distributor.

③ LED Does Not Light Up

The LEDs embedded in the IDS-9100 are designed to last over 100,000 hours. If any LED fails, it may be due to cracks in the soldering. In that case, please contact the ILLUCO A/S Center or your local distributor.

④ Mechanical Malfunction

If there are any issues with the functional buttons or focusing wheel, please contact the ILLUCO A/S Center or your local distributor. The IDS-9100 is designed to prevent disassembly by unskilled users. Attempting to disassemble the device may result in damage to internal connections and joints.

Battery Replacement

Note

Battery replacement is only possible by authorized service providers (manufacturers).

IDS-SERIES LIMITED WARRANTY

ILLUCO Corporation Ltd. Hereby warrants that new IDS-Series purchased directly from ILLUCO Corporation Ltd., headquartered in Gunpo, South Korea, will be free from factory defects in material and workmanship for the period of time stated below, subject to certain limitations.

OUR WARRANTY POLICY

This warranty is not transferable and covers replacement parts only. This warranty does not cover any consequential damages or business loss.

THE PERIOD OF WARRANTY

The warranty on your IDS-Series is Five (5) years from the date of purchase by the original owner against defects in material and workmanship.

GENERAL EXCLUSIONS

General exclusions from this warranty shall include any failures caused by:

- a. Installation of parts, attachments or accessories that are not original to the unit or genuine IDS-Series parts.
(i.e. aftermarket attachments such as battery, LEDs etc.)
- b. Abnormal strain, neglect, or abuse.
- c. Lack of proper maintenance.
- d. Accident or collision damage.
- e. Changing or altering factory settings without consulting with an authorized technician.
- f. Damage or malfunctions resulting from natural calamity, freezing, theft, accident, vandalism
abuse due to misapplication and/or improper site conditions.

SPECIFIC EXCLUSIONS

Items not covered under warranty include:

- a. Parts replaced due to normal wear or routine maintenance including, but not limited to battery, LEDs, protect glass, etc.
- b. Consumable or wearing items requiring replacement as part of normal operation including,
but not limited to battery and protect glass.
- c. Any transportation or travel costs.
- d. Reimbursement for rental units while repairing warranty items.

CUSTOMER'S RESPONSIBILITY

Under this warranty, the customer's responsibility shall be to:

- a. Operate and maintain the device as specified in the instructions manual.
- b. Give notice to authorized IDS-Series dealer or ILLUCO Corporation Ltd.
of apparent defects within seven (7) days after discovery.
- c. Provide proof of purchase, purchase date, and serial number of the warranty item(s).
- d. Make the unit available for inspection and repairs at dealer's place or service center.
If shipped, transit costs should be prepaid.

For warranty service request, please e-mail info@illuco.co.kr or call +82 70 4922 7441.

ILLUCO Corporation Ltd. recommends that you read the User Manual, and in particular the troubleshooting section.

EC DECLARATION OF CONFORMITY

We, the
ILLUCO Corporation Ltd.
Declare under our sole responsibility that the Product

Description : Medical Microscope
Product Name : IDS-Series Class I Non-sterile Non-measurement
Manufacturer : ILLUCO Corporation Ltd.
Address : 102-304 SK Ventium, #166 Gosan-ro, Gunpo-si, Gyeonggi-do 15850 Rep. of Korea

This declaration of conformity is issued under the sole responsibility of ILLUCO Corporation Ltd. We hereby declare that the medical device(s) specified above meet the provision of the Regulation (EU) 2017/745 on medical devices (MDR 2017/745).

The product carries the CE Mark : 

European (EEA/EU/EC) Authorized Representative

AeMi World e.K.

Address : Bugenhagenstr.8,
10551 Berlin, Germany
Tel: 0049 (0) 172 3199 811
e-mail : dwis22@gmx.de

Date & Place of Issue : Gunpo, Republic of Korea, 05.20.2025

ILLUCO CO., LTD

Signature : 
PRESIDENT / ILPYO, HONG

Appendix

Electromagnetic Compatibility

This device complies with the EMC Emissions and Immunity level requirements of the standard IEC 60601-1-2:2014/AMD1:2020

RF emissions CISPR11	Group 1 / Class B
Statement for the operational environments	Inside professional healthcare facilities except for: near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances are high.
	The supply voltage quality should be that of a typical hospital environment.
	Floors should be wood, concrete or covered with ceramic tiles. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
WARNING	Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
	Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
	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 considered device, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
	Illumination failures may occur due to electrostatic discharge.
Note	The EMISSION characteristics of this equipment make it suitable for use in professional healthcare environment as well as residential environment (CISPR 11 Class B). This equipment offers adequate protection to radio communication service. In the rare event of interference to the radio communication service, the user might need to take mitigation measures, such as relocating or re-orienting equipment.



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