

IBOOL DERMATOSCOPE BROCHURE



We want to leverage our expertise in optical fields,
to create medical lenses that benefit humanity.



IBOOL MEDICAL LENS

We are founded in 2012, is one of the world's leading supplier of smartphone lens. We started and focused on making high-end phone lens for many years ...

But now we do more than that, we want to use our extensive experience and knowledge to make some high quality and affordable dermascope to meet the needs of more people and arouse people's attention to skin problems.



About Us

Dermatoscope

Accessory

DE-5100

DE-4100

DE-4100 PRO

DE-3100

DE-3100 PRO

DE-500

DE-400

DE-300

DE-315

DE-215

Comparison

Certificate

Contact Us



DE-5100 DERMATOSCOPE

The DE-5100 dermatoscope is designed for professionals who demand advanced optical performance and reliable clinical imaging in every detail. Features multiple polarization modes: cross, parallel & amber polarization.



DE-4100 DERMATOSCOPE

The DE-4100 dermatoscope is for dermatologists who demand to diagnose skin lesions by eyes, but also want a lightweight device they can take anywhere and use for taking high-quality skin photos.



DE-4100 PRO DERMATOSCOPE

An enhanced version of the DE-4100. This device adds 4 365nm UV LED lights for UV dermoscopic examination.



DE-3100 DERMATOSCOPE

The DE-3100 is a handheld dermatoscope, it can be used for both visual detection and smartphone photograph skin lension. The visual field is smaller than DE-4100, but the weight is lighter.



DE-3100 PRO DERMATOSCOPE

An enhanced version of the DE-3100. This device changed the original amber LED lights to 6 365nm UV LED lights for UV dermoscopic examination.



DE-500 DERMATOSCOPE

The most useful pocket dermatoscope. This device adds 4 365nm UV LED lights for UV dermoscopic examination. Furthermore, The DE-500 upgraded the polarization light.



DE-400 DERMATOSCOPE

The DE-400 Dermatoscope is a 10 times smartphone dermatoscope, this device is used for early diagnosis of malignant melanoma and other dermatological examinations.



DE-300 DERMATOSCOPE

The DE-300 Dermatoscope is a 6 times smartphone dermatoscope, this device is used for early diagnosis of malignant melanoma and other dermatological examinations.



DE-315 WOODS LAMP

The DE-315 Woods Lamp is designed for fungal infection and skin pigmentation detection. The device has 10 365 nm UV and 10 405nm UV LED lights for UV dermoscopic examination.



PHONE ADAPTER

It's universal and able to connect with any smartphone to capture images.



CAMERA ADAPTER

The dermatoscope is able to attach camera with the help of a magnetic ring.



SMALL CONTACT PLATE

It can be used to detect difficulty access pigmented lesions, such as nails and narrow areas.



PHONE COVER

It can mount your dermatoscope and take pictures more conveniently.



DISPOSABLE PROTECTOR

Disposable cross infection protective cover for DE-3100, DE-4100 and DE-5100.



BACK UP BATTERY

Replacement battery for DE-4100 dermatoscope.

Advanced Portable Dermatoscope

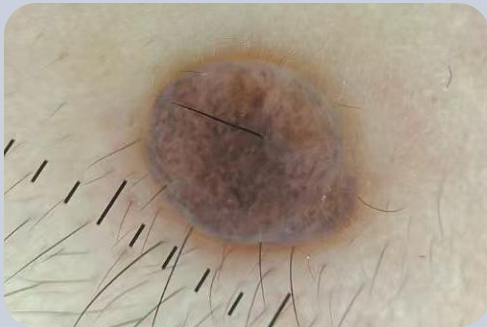
With advanced optics and a multi-mode LED illumination system.

The DE-5100 is designed for professional dermoscopy with superior image clarity and diagnostic confidence.



DE-5100

Advanced Capabilities



12X High Magnification

12X high-definition magnification for precise skin lesion evaluation and detailed visualization.

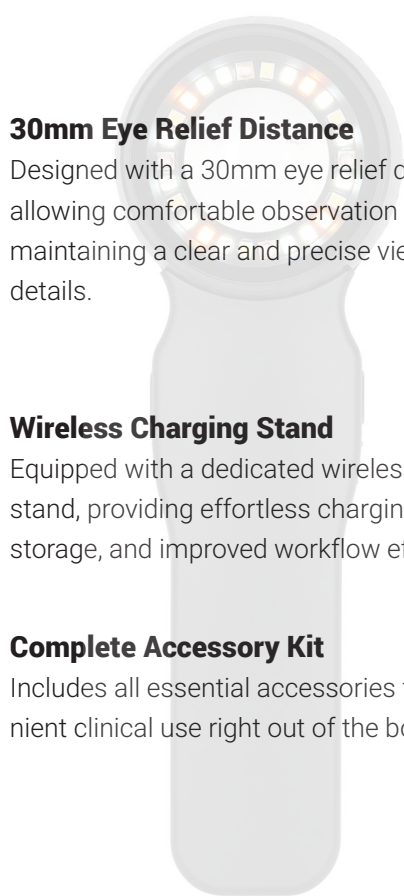
Multi-Mode LED Illumination

Including cross, parallel, amber polarization, and 365nm UV light for comprehensive examination.

Advanced Optical System

Provides clear and accurate visualization of subsurface structures.





30mm Eye Relief Distance

Designed with a 30mm eye relief distance, allowing comfortable observation while maintaining a clear and precise view of skin details.

Wireless Charging Stand

Equipped with a dedicated wireless charging stand, providing effortless charging, organized storage, and improved workflow efficiency.

Complete Accessory Kit

Includes all essential accessories for convenient clinical use right out of the box.

Advanced Capabilities





Technical Information

Model	DE-5100
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	48mm(front); 32mm(rear)
Magnification	12X
Distortion	5%
Polarization	Cross Polarised, Parallel Polarised & Amber Polarised
MTF	300 LP/MM(Axis) 280 LP/MM(Edge)
Battery Capacity	1500mAh Lithium ion, USB-C charging
Weight	318g
Dimension	Φ61mm*H42.3mm*L185.5mm
Working Time	5-5.5 hours
Focal Distance	15-25mm
Lighting	26 LEDs, 12 polarization, 6 parallel polarization, 4 amber polarization, 4 365nm UV light



What's in The Box

- DE-5100 Dermatoscope
- Magnetic Phone Adapter
- Universal Adapter with Charging Cable
- Wireless Charging Stand
- Small Contact Plate
- Non Contact Plate
- Eye Piece
- Disposable Cross Infection Protectors

DE-5100



- LIGHTING SYSTEM
- LENS DIAMETER
- MAGNIFICATION
- ACCESSORY
- BATTERY
- CHARGING
- COST

Polarized, Parallel Polarized,
Amber, 365nm UV light

32mm

12 times

Phone Adapter, Charging Stand,
Small Contact Plate, Non
Contact Plate, Eye Piece

1500mAh

Wireless



DE-4100 PRO



Polarized, Non Polarized, Amber,
365nm UV light

32mm

10 times

Phone Adapter

1500mAh

USB-C



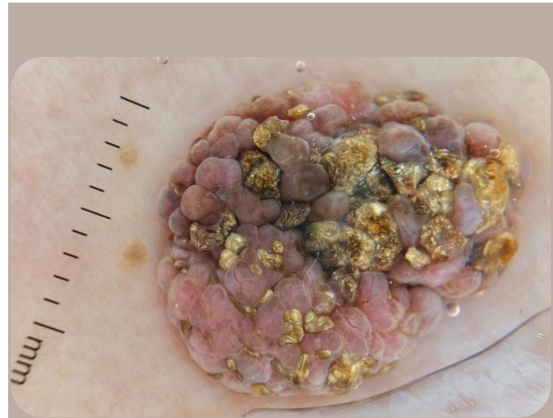
Portable DE-4100 Dermatoscope



With magnet snap on and off,
the dermatoscope can be installed
on any smartphone in 5 seconds.

Sharp & Precise

Superior optical system (optimized for the latest iPhone). Minimize lens distortion to 5% better than any dermatoscope in its class. Made from premium multi-coated and multi-element optics, the imaging performance is the best in the market.



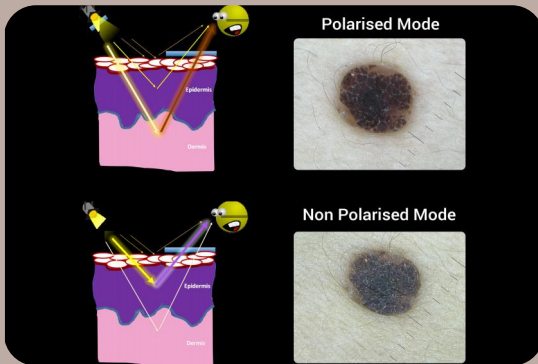
See Deeper

The polarized light can help to eliminate surface reflection and allow visualization of vascular structures. The instrument allows for visualization for deeper skin structures, such as blood vessels, collagen, and pigment in the dermis.

Large Visual Field

The biggest visual field (32mm) among all dermatoscopes. It enhances a doctor's view of the skin as much as possible.

Which allows you to see the entire lesion in one image without moving the device. This is particularly useful for larger lesions.





Technical Information

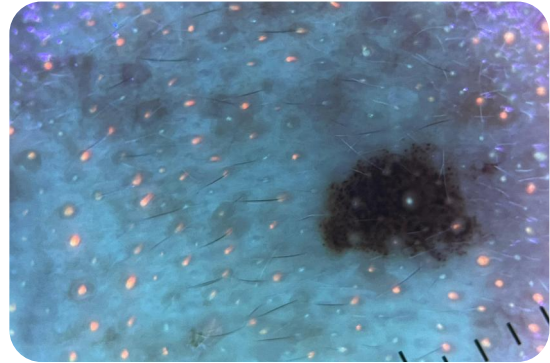
Model	DE-4100
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	48mm(front); 32mm(rear)
Magnification	10X
Distortion	5%
Polarization	Non Polarization & Polarization & Amber Light
MTF	300 LP/MM(Axis) 280 LP/MM(Edge)
Battery Capacity	1000mAh Lithium ion, USB-C charging
Weight	312g
Dimension	Φ58mm*H44mm*L196.5mm
Working Time	5-5.5 hours
Focal Distance	15-25mm



What's in The Box

- DE-4100 Dermatoscope
- Universal Phone Adapter
- Magnetic Ring
- USB-C Charging Cable
- Carrying Case
- Clean Cloth
- User Manual

Professional DE-4100 PRO Dermatoscope



The DE-4100 PRO is an enhanced version of the DE-4100. This device adds 4 365nm UV LED lights for UV dermoscopic examination.

UV light is used in dermoscopy for ultraviolet induced fluorescence dermoscopy (UVFD) to improve the diagnosis of various skin conditions by using its ability to make certain substances fluoresce. This technique is helpful for identifying and assessing skin cancers like melanoma, non-cancerous lesions such as porokeratosis, inflammatory diseases, and infections.

DE-4100



same

Polarized, Non Polarized, Amber

10 times

32mm

1000mAh

skin lesion diagnosis



DE-4100 PRO



same

Polarized, Non Polarized, Amber,
365nm UV light

10 times

32mm

1000mAh

skin lesion, fungal infection and
skin pigmentation detection

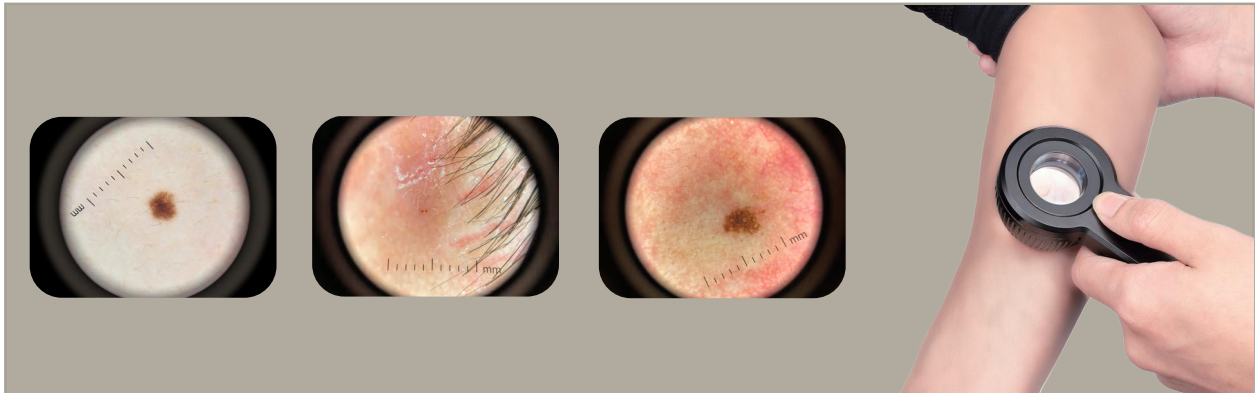


- OPTICAL DESIGN
- LIGHTING SYSTEM
- MAGNIFICATION
- LENS DIAMETER
- BATTERY
- APPLICATION
- COST

Handheld High Quality DE-3100 Dermatoscope

The DE-3100 is a handheld dermatoscope, it can be used for both visual detection and smartphone photograph skin lesion. Build with 4K resolution optics, 10X magnification and 25mm visual field of view – the DE-3100 is perhaps the most super value dermatoscope we've ever seen.

The visual field is smaller(22%) than DE-4100, but the weight is 40% lighter.





Pro-Level Features

The most sharpness optical system. Optimized for the latest iPhone, rank only next to DE-4100.

Naked eye detection. 25mm visual field of view.

10mm etching scale. Permanent, never wear out.

Excellent colour rendering.

Advanced cross polarization lighting. The instrument allows for visualization for deeper skin structures, such as blood vessels, collagen, and pigment in the dermis.

Focus adjustable. It's able to adjust working distance of different phone cameras. This enables the best image capture effect to be achieved.



Technical Information

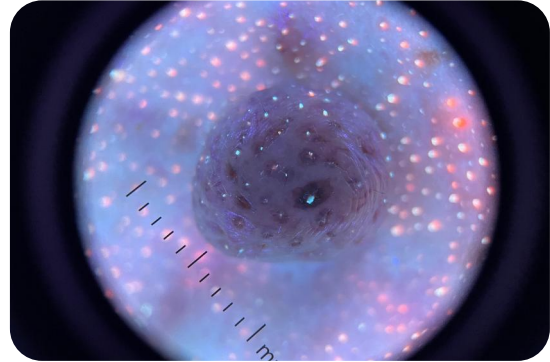
Model	DE-3100
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	35mm(front); 25mm(rear)
Magnification	10X
Distortion	8%
Polarization	Non Polarization & Polarization & Amber Light
MTF	300 LP/MM(Axis) 280 LP/MM(Edge)
Battery Capacity	1000mAh Lithium ion, USB-C charging
Weight	187g
Dimension	Φ53mm*H35mm*L136.5mm
Working Time	4-4.5 hours
Focal Distance	12-20mm
Lighting	30 LEDs, 18 polarization, 6 non polarization, 6 amber polarization



What's in The Box

- DE-3100 Dermatoscope
- Universal Phone Adapter
- Magnetic Ring
- USB-C Charging Cable
- Carrying Case
- Clean Cloth
- User Manual

Professional DE-3100 PRO Dermatoscope



The DE-3100 PRO is an enhanced version of the DE-3100. This device changed the original amber LED lights to 365nm UV LED lights for UV dermoscopic examination.

UV light is used in dermoscopy for ultraviolet induced fluorescence dermoscopy (UVFD) to improve the diagnosis of various skin conditions by using its ability to make certain substances fluoresce. This technique is helpful for identifying and assessing skin cancers like melanoma, non-cancerous lesions such as porokeratosis, inflammatory diseases, and infections.

DE-3100



same

Polarized, Non Polarized, Amber

10 times

25mm

1000mAh

skin lesion diagnosis



DE-3100 PRO



same

Polarized, Non Polarized, UV

10 times

25mm

1000mAh

skin lesion, fungal infection and
skin pigmentation detection



- OPTICAL DESIGN
- LIGHTING SYSTEM
- MAGNIFICATION
- LENS DIAMETER
- BATTERY
- APPLICATION
- COST

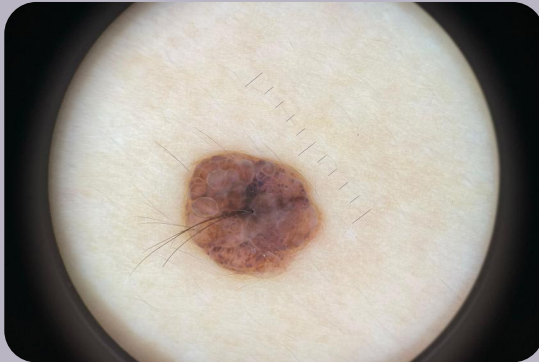
Smartphone DE-500 Dermatoscope

With enhanced polarized lighting system and multiple optical design.

The DE-500 is the best smartphone dermatoscope for skin lesion photograph.



Pro-Level Features



Greater field of clear version

The most sharpness optical system, same as DE-3100, edge image 50% better than DE-400.

Enhanced polarization

Visualizing deeper skin structures clearly

Evenly distributed lighting

Minimizing glare and shadows, which allows for a clearer, more accurate visualization of subsurface structures like blood vessels and pigment patterns.

10mm etching scales

Permanent scales, never wear out.

Magnet Phone Adapter

Connect with phone to photograph quickly.
Compatible with 99% smartphone.



Technical Information

Model	DE-500
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	30mm(front); 15mm(rear)
Magnification	10X
Distortion	5%
Polarization	Non Polarization & Polarization & UV Light
MTF	300 LP/MM(Axis) 280 LP/MM(Edge)
Battery Capacity	300mAh Lithium ion, USB-C charging
Weight	75.5g
Dimension	Φ61.5mm*H32mm
Working Time	90 minutes
Focal Distance	16mm
Lighting	16 LEDs, 8 polarization, 4 non polarization, 4 365nm UV light



What's in The Box

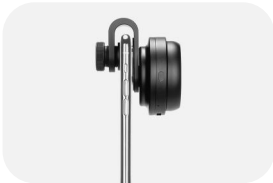
- DE-500 Dermatoscope
- Universal Magnetic Lens Clip
- USB-C Charging Cable
- Carrying Case
- Clean Cloth
- User Manual

Smartphone Polarized DE-400 Dermatoscope

The DE-400 is a smartphone dermatoscope. It can be used for early diagnosis of malignant melanoma and other dermatological examinations. The device contains a universal phone adapter to connect with any smartphone or tablet to capture images.

With improved optical and lighting system, the DE-400 has higher clarity and better mobile phone compatibility compared with DE-300.





Technical Information

Model	DE-400
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	45mm(front); 15mm(rear)
Magnification	10X
Distortion	5%
Polarization	Non Polarization & Polarization
MTF	280 LP/MM(Axis) 250 LP/MM(Edge)
Battery Capacity	230mAh Lithium ion, USB-C charging
Weight	68.5g
Dimension	Φ58.5mm*H26.5mm
Working Time	60 minutes
Focal Distance	10mm
Lighting	15 LEDs, 10 polarization, 5 non polarization



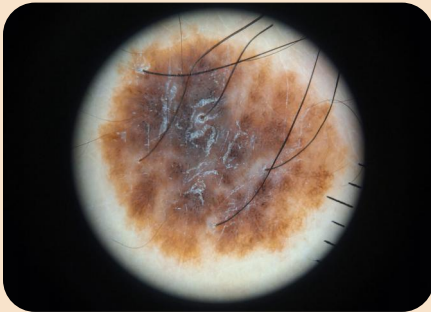
What's in The Box

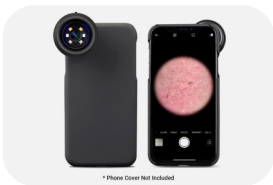
- DE-400 Dermatoscope
- Universal Lens Clip
- Metal Lens Clip
- USB-C Charging Cable
- Carrying Case
- Clean Cloth
- User Manual

Universal Smartphone DE-300 Dermatoscope

The DE-300 is a smartphone dermatoscope. It contains a universal phone adapter meaning convenient to connect with any smartphone or tablet to capture images.

As an entry product, we eliminated some additional features of pro dermatoscopes and focused on polarization. Hope to save cost and make it accessible to more people.





Technical Information

Model	DE-300
Material	Aluminum & Glass
Optical Design	All glass, 4 elements 3 groups, anti-reflection coating
Lens Diameter	35mm(front); 15mm(rear)
Magnification	6X
Distortion	8%
Polarization	Non Polarization & Polarization
MTF	250 LP/MM(Axis) 200 LP/MM(Edge)
Battery Capacity	230mAh Lithium ion, USB-C charging
Weight	32.5g
Dimension	Φ43mm*L24.15mm
Working Time	60 minutes
Focal Distance	12mm
Lighting	8 LEDs, 4 polarization, 4 non polarization



What's in The Box

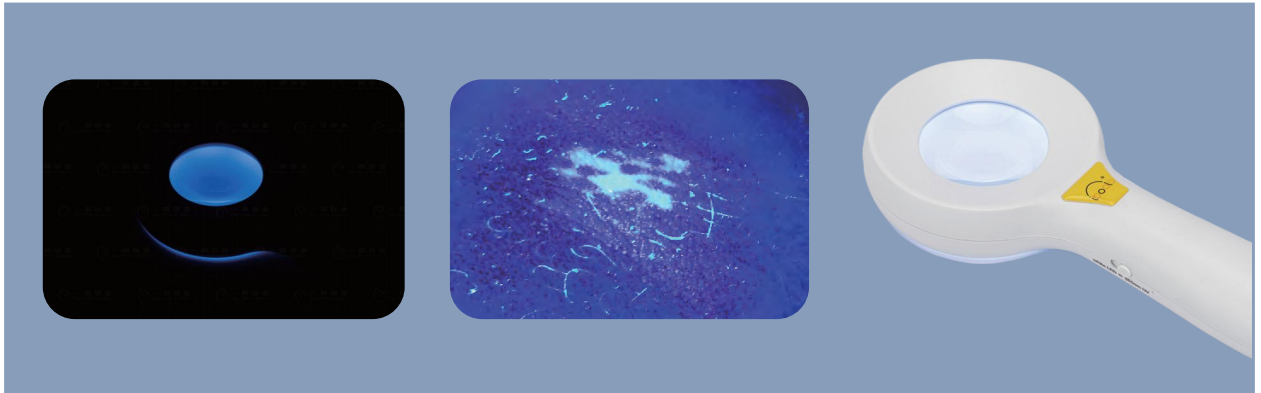
- DE-300 Dermatoscope
- Universal Lens Clip
- Metal Lens Clip
- USB-C Charging Cable
- Carrying Case
- Clean Cloth
- User Manual

Dermatology

UV 365nm & 405nm DE-315 Woods Lamp

The DE-315 Woods Lamp is designed for fungal infection and skin pigmentation detection. The device has 10 365 nm UV and 10 405nm UV LED lights for UV dermoscopic examination.

A Wood's lamp is an instrument that uses transillumination (light) to detect bacterial or fungal skin infections. It can also detect skin pigment disorders such as vitiligo and other skin irregularities.





Superior optical system

The 50mm lens diameter design make sure there's no unnecessary corners and gaps to catch hair or scales in. 4.5 times Magnification and minimize lens distortion to 5%.

Higher 365nm UV density

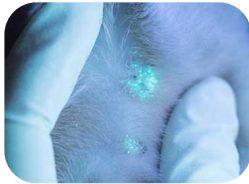
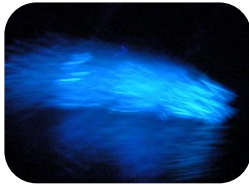
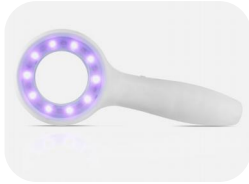
Higher UV density means a more powerful source of light, which can speed up the diagnostic process and provide a clearer, more detailed view of subtle changes in skin pigmentation and texture.

405nm UV Light

Fluorescence Excitation.

2000mAh Battery

Enables longer, more frequent use, making it suitable for extended diagnostic sessions or field use without needing to be recharged.



Technical Information

Model	DE-315
Material	Aluminum & Glass
Optical Design	All glass, 1 element 1 group, anti-reflection coating
Lens Diameter	50mm(front); 50mm(rear)
Magnification	4.5X
Distortion	5%
Ultraviolet	10 LEDs 365nm UV, 10 LEDs 405nm UV
MTF	300 LP/MM(Axis) 250 LP/MM(Edge)
Battery Capacity	2000mAh Lithium ion, USB-C charging
Weight	162g
Dimension	Φ100mm*H34mm*L240mm
Working Time	6-8 hours
Focal Distance	15-30cm
Charging	USB-C



What's in The Box

- DE-315 Woods Lamp
- Fabric Shade
- USB-C Charging Cable
- Clean Cloth
- User Manual

Dermatology

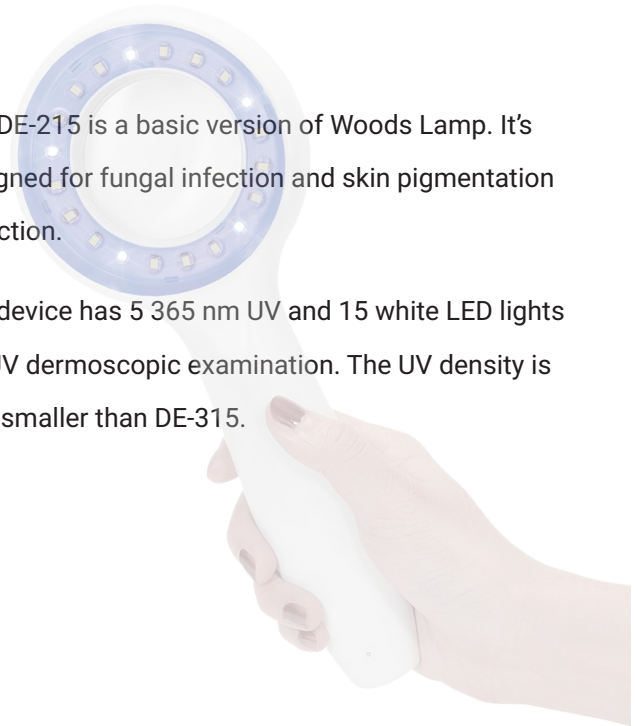
365nm UV

DE-215

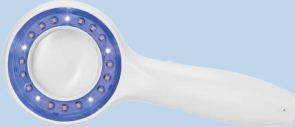
Woods Lamp

The DE-215 is a basic version of Woods Lamp. It's designed for fungal infection and skin pigmentation detection.

The device has 5 365 nm UV and 15 white LED lights for UV dermoscopic examination. The UV density is 50% smaller than DE-315.



DE-215



- **OPTICAL DESIGN**

same

- **ULTRA VIOLET**

365nm

- **LEDs**

5 365nm UV, 15 white light

- **MAGNIFICATION**

4.5 times

- **LENS DIAMETER**

50mm

- **BATTERY**

2000mAh

- **APPLICATION**

skin bacterial, fungal infection
and pigmentation detection

- **COST**



DE-315



same

365nm & 405nm

10 365nm UV, 10 405nm UV

4.5 times

50mm

2000mAh

skin bacterial, fungal infection
and pigmentation detection



DE-4100



DE-3100



DE-500



DE-400



OPTICAL DESIGN

4 elements 3 groups

4 elements 3 groups

4 elements 3 groups

4 elements 3 groups

LENS DIAMETER

48mm/32mm

35mm/25mm

30mm/15mm

46mm/15mm

MAGNIFICATION

10 times

10 times

10 times

10 times

LIGHTING SYSTEM

22 LEDs, polarise, non polarise, amber light

30 LEDs, polarise, non polarise, amber light

16 LEDs, polarise, non polarise, UV light

12 LEDs, polarization, non polarization

BATTERY

1000mAh

1000mAh

300mAh

230mAh

CONNECTABILITY

naked eye, phone, tablet, digital camera

naked eye, phone, tablet, digital camera

smartphone & tablet

smartphone & tablet

ADJUSTABLE

focus & brightness

focus

non adjustable

non adjustable

SCALE

etching

etching

etching

silk printing

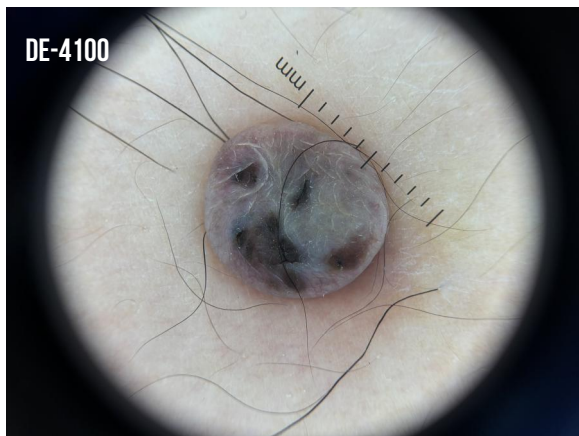
COST



DE-4100 OVER DE-3100

- Bigger lens diameter and this gives:
 - Bigger visual field
 - Better visual detection experience
 - Less blur at edges
 - Less distortion
- Modern and premium design
- Brightness adjustable





We Offer

Certificate

CE (Medical, Class I)

FDA

ISO 13485

ISO 14001

MSDS

Verification of Conformity

Letter of Designation

Warranty

2 years warranty and lifelong maintenance instruction.

Customize

Free customize. Name or brand printing on the device within 2 working days.

Shipment

Order delivery within 48 hours. Free expedite globally.

Package

Made from environmentally friendly materials that can be decomposed and recycled.

Support

Monday-Saturday; 9:00-18:30

Inquiry response within 24 hours



DOC

medright

MEDRIGHT TECH INC.
6402-7001 WOODSIDE DRIVE, SUITE 100
LEWISTOWN, NY 13226
www.medright.com

Our Ref: 202321

SHEZHEN IBOOO OPTICS CO., LTD.
Room 406, R1 building, mengyue purchasing center, Xixiang St., Bao'an District, Shenzhen, Guangdong, 518103, CHINA

Made from October 1, 2024 to December 31, 2025

Shenzhen Ibooo

FDA Registration Confirmation

Thank you for appointing MEDRIGHT TECH INC. as your U.S. Agent, we hereby state that we accept the appointment to be the U.S. agent for your products, and we have completed the registration activities confirmation for the FDA First Establishment Registration and Device Listing with the CDH Road & Drug Administration for the Fiscal Year 2025 of

SHEZHEN IBOOO OPTICS CO., LTD.

Room 406, R1 building, mengyue purchasing center, Xixiang St., Bao'an District, Shenzhen, Guangdong, 518103, CHINA

The Establishment Registration and Device Listing information is as follows:

Manufacturer Registration Number	10851234
Listing No.	20230327
Product Code	INT
Product Name	LIGHT TRANSMISSION MEDICAL BATTERY POWERED

Please inform us of any changes to:

- the company information
- additional generic groups of devices or additional devices
- discontinuation of a generic group of devices or devices

We strongly recommend you to contact us or email medright@medright.com to update the information every year.

If you have any queries regarding regulation, please do not hesitate to contact us.

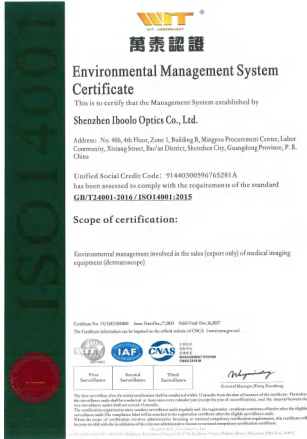
Yours sincerely,

For and on behalf of
MEDRIGHT TECH INC.
SHEZHEN IBOOO OPTICS CO., LTD. (SHEZHEN IBOOO OPTICS CO., LTD.)
Authorized Signature
Not valid for CE Mark Signature

FDA



ISO13485



ISO14001

MSDS 报告

MSDS Report

中文名称: 深圳市艾博光学科技有限公司
Shenzhen Ibooo Optics Technology Co., Ltd.
地址: 深圳市宝安区西乡街道铁岗社区铁岗路101号135室
Address: 101F, Building No.240, Longfeng Farm Road, Longgong District, Shenzhen, P.R. China

产品名称: 腔镜/内镜
Product Name: Lumen Endoscopy
型号: 102050
规格: 3.7V
Normal Voltage: 3.7V
额定功率: 57W
Rated Capacity: 57W
品牌: 艾博
Image: [Logo]
尺寸/Dimension: 10.0mmx20.0mmx51.0mm (TYPICAL)

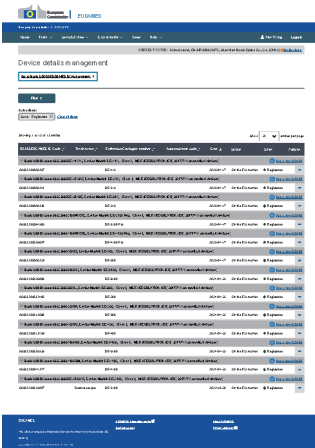
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Shenzhen Ibooo Optics Technology Co., Ltd.
101F, Building 101, No.135-5, Shixiang Road, Huaping Street, Bao'an District, Shenzhen, Guangdong, China

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101F, Building 101, No.135-5, Shixiang Road, Huaping Street, Bao'an District, Shenzhen, Guangdong, China

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Effective Date: 2026-12-31

MSDS



MDR

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▶ @iboolomedical



**IBOOL
DERMATOSCOPE
BROCHURE**

To offer innovative
& affordable dermascopes.