

■Main specifications [DERMOSCOPE DZ-S50]

Model		DZ-S50
Lens	Magnification	6× / 9× (with optional Conversion Lens attached)
	Focal Distance	f=50mm / f=31.25mm (with optional Conversion Lens attached)
	Maximum Effective Diameter	40.5mm (1.6")
LED light		polarized / non-polarized (switching)
Power Supply		Lithium ion battery (built-in)
Battery Life		Approx. 120 minutes (LED lights lit continuously)
Size		67.5 × 140.2 × 23.1 mm (2.7" × 5.5" × 0.9") (W × H × D)
Weight		Approx. 125g (4.4oz ), approx. 145g (5.1oz) (with optional Conversion Lens attached)
Bundled Accessories		AC adapter for charging, User's Guide, Warranty

■Main specifications [DERMOCAMERA DZ-D100]

Model			DZ-D100
Valid Pixels			5184×3888    Approx. 20.16 megapixels
Imaging Element			1/2.3-inch CMOS (back-illuminated type)
	Total Pixels		5352×3950    Approx. 21.14 megapixels
Image File Formats	Still Images		JPEG (Exif Ver 2.3), DCF2.0 compliant, DPOF non-compliant
			Recorded pixels: 5184×3888
	Video		MOV format, H264/AVC-compliant, IMA-ADPCM audio (monaural) Recorded pixels: 1600×1200 (UXGA), 30 fps
Memory card			SD Memory Card, SDHC Memory Card, SDXC Memory Card
Recording Capacity	Still Images	Memory card 16GB	Approx. 1860 shots
	Video	Maximum Video File Size	Max. 1.4GB per video (10-min. video)
		Memory card 16GB	Approx. 1 hr. 55 mins.
Lens	Construction		9 elements in 6 groups
	F-number		F3.33
	Focal Distance		f=7.67
	35mm Film Equivalent		53.5mm (single-focus lens with filter switching unit)
Zoom			Digital zoom 8× Zoom resolution: 0.1×
ISO Sensitivity (Standard Output Sensitivity)			NORMAL mode: Auto Close-up (DERMO) photography: Fixed
Data Transfer Method			Wi-Fi / micro USB cable / SD memory card
Communication Functions			Compliant standard: IEEE 802.11b/g/n, range of frequencies used: 1–11 ch, encryption method: WPA2
Image Monitor			3.0 TFT color LCD, 720×480 pixels, 1036800 dots (RGB) Capacitance touch panel
Power Supply			Lithium-ion battery (DNP-100M) × 1
Battery Life	Number of Shots		Approx. 175 shots
	Actual Video Recording Time		Approx. 50 mins. (during continuous recording)
Size			127.5 × 76.0 × 86.1 mm (5.0" × 3.0" × 3.4") (W × H × D)
Weight			Approx. 395g (13.9oz) (incl. Lithium-ion battery & memory card), approx. 345g (12.2oz) (w/o Lithium-ion battery & memory card)
Bundled Accessories			Lithium-ion battery (DNP-100M), AC adapter for charging, lens cap, lens removal tool, Quick Start Guide, Warranty

●The liquid crystal panel of the monitor screen uses high-precision technology that provides a pixel yield in excess of 99.99%. This means that only a very tiny number of pixels may not light or may remain lit at all times. This is due to the characteristics of the liquid crystal panel, and does not indicate malfunction. ●Walk-in repair service not available. ●Operation check data storage: 16GB SDHC memory card (SanDisk) ●The SD logo is a trademark of SD-3C, LLC. ●HDMI is a trademark or registered trademark of HDMI Licensing LLC. ●Wi-Fi is a registered trademark of Wi-Fi Alliance. ●All other company and product names are registered trademarks or trademarks of the respective companies. ●All specifications, prices, and designs mentioned herein are subject to change without notice. Colors as shown here may differ from the color of the actual product. ●All screens are computer-generated images. ●All photos, including sample images, are provided for illustration purposes only. ●The information in this catalog is current as of February 2024.

■Included



■Accessories (Sold separately)



■Included



■Accessories (Sold separately)



For product details and inquiries,  
please contact below URL.



CASIO®



D'Z IMAGE

Dermatology camera

DERMOCAMERA

DZ-D100



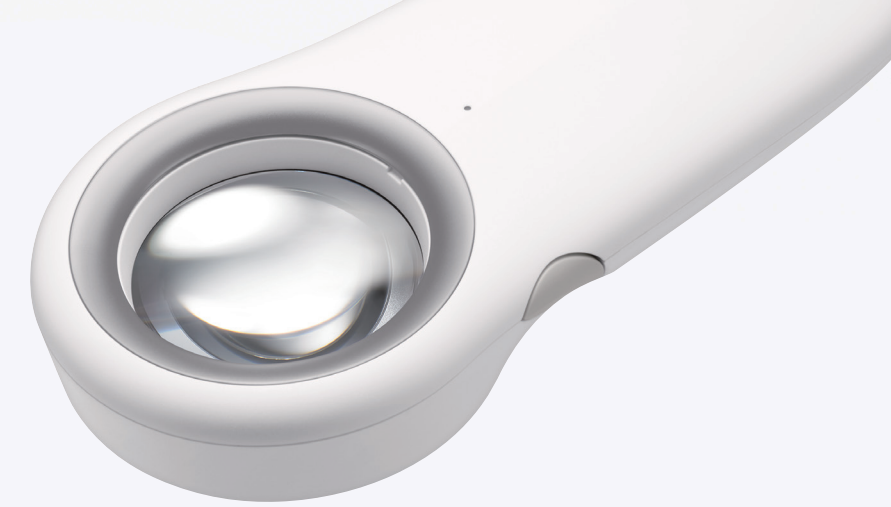
Dermatology scope

DERMOSCOPE

DZ-S50







## Delivering innovation in medical imaging through medical-engineering collaboration

Casio is creating medical imaging innovations through medical-engineering collaboration applying the original image processing technology that it has developed over the decades to meet needs in the medical field.

The idea of “using photography to get at the truth” is the concept driving this research and development. Casio has now brought the idea to fruition by offering dermatology hardware and services.

In partnership with leading doctors on the frontlines of medicine, Casio has developed equipment with simple configurations and smart operations to facilitate the handling of the many functions required for dermal observations.

These new tools provide comprehensive support for doctor’s consultations, supporting the key processes of observation, recording, utilization, and learning.

Casio develops solutions that support healthcare professionals in providing more accurate, efficient diagnosis and treatment for individual patients, and the early detection of diseases.

### Observe

Easier visual dermal observation

Dermatology scope  
**DERMOSCOPE DZ-S50**



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### Record

Quick, easy, detailed dermal photography

Dermatology camera  
**DERMOCAMERA DZ-D100**



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### Utilize

More efficient image management and observation with PC

Image management software  
**D'z IMAGE Viewer D**



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## Japanese Precision Manufacturing

We deliver reliable and trusted Japanese quality from development through production and after-sales support.





## Dermatology scope

**DERMOSCOPE****DZ-S50****Easier visual dermal observation**

The compact footprint of DERMOSCOPE DZ-S50 features an easy-to-hold shape.

The scope comes equipped with a large diameter lens and high luminance LED light. Users can switch between polarized and non-polarized light with one touch, allowing easier close up observation of lesions.

**Sharp detail Large diameter lens**

Features a large diameter 40.5mm (1.6") lens with a wide field of vision and low distortion. Since it is easy to focus, users can observe lesions without putting their face right next to the affected area or making fine position adjustments. The lens magnification is 6×.

**Easy to use Shape and design**

The grip fits comfortably in the hand, and power and polarization switching buttons are located where the user's fingers are positioned when holding it. It is lightweight, at approximately 125g (4.4oz). The symmetrical shape can be used with either the left or right hand.

**Powers down by itself Auto power off**

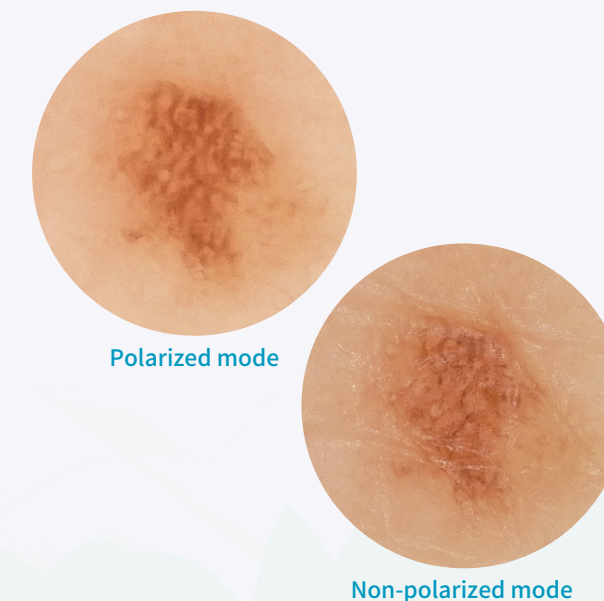
Power supply turns off automatically approximately three minutes after being turned on. This prevents the device being left unattended and reduces concerns about suddenly running out of battery power.

**Bright and easy to see****High luminance LED light**

The LED light has an illumination intensity of 30000 lux, allowing users to see lesions clearly in sharp detail and assisting accurate observation of color. It is energy efficient, allowing about 120 minutes of continuous use on a single charge. This reduces concern about keeping patients waiting during recharge.

**One touch****Polarized, non-polarized mode switching**

The LED light can be changed from polarized to non-polarized mode with a simple switch. Polarized mode works best for observing pigment distribution beneath the skin's surface, while non-polarized mode is good for observing the condition of the skin's surface.

**Increasing DERMOSCOPE DZ-S50 magnification**

A convenient option is available to make observation even easier.

**Conversion Lens | DSL-50M**

An easy-to-fit Conversion Lens is available and can increase lens magnification from 6× to 9×. This is useful for observing minute lesions such as scabies.





## Dermatology camera

**DERMOCAMERA****DZ-D100****Dermal observations — quick, easy, detailed**

This digital DERMOCAMERA for dermal observation and photography was designed to meet the requests of front-line clinical practitioners. Casio has packed its proprietary photographic and image processing technologies into a single camera to create functions that are useful for dermal observations.

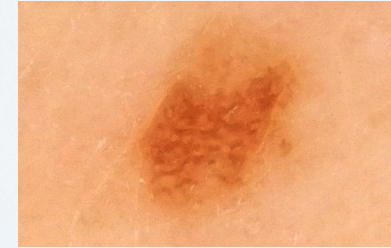
**Dual purpose Ordinary & close-up photography**

Both ordinary and close-up shots can be taken without switching lenses. The user can quickly photograph the entire lesion and then zoom in for close-up shots of the affected area. Photographed images can be used for referrals to other medical institutions and requesting opinions from other doctors. • Ordinary and close-up videos can also be taken.

**Ordinary shot****Close-up shot****Single shutter Polarized, non-polarized, and 405 nm modes**

A single click of the shutter can yield polarized, non-polarized, and 405 nm photos. No switching of filters is required, which saves time.

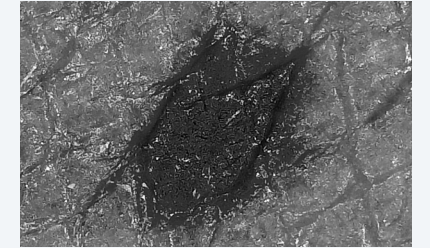
- 405 nm photos snapped at 405nm wavelength.
- 405 nm mode set with a simple ON/OFF switch.

**Polarized mode**

This mode blocks light emission from the surface of the skin, making it easier to observe pigment distribution beneath the skin's surface.

**Non-polarized mode**

This mode is good for observing the condition of the skin's surface.

**405 nm mode**

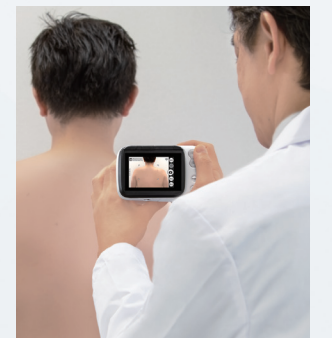
With 405 nm photos, the edges of blemishes and spots are revealed in sharp definition.

**Observe movement Video Shooting**

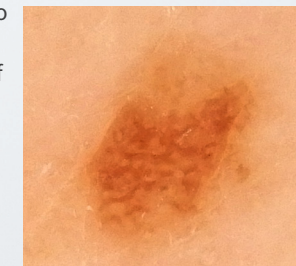
Video shooting when the lesion is moved.

**Record an entire area Wide area shots**

The user can photograph the entire area affected, such as the back, which is useful in observing the course of a lesion.

**Low distortion Special lens**

Images are clear all the way to the edges, making it possible to accurately see the shape of the affected area; and their high-resolution captures microstructures in the affected area with fine precision.



Sample of a polarized photo.

**Bright and clear LED lights**

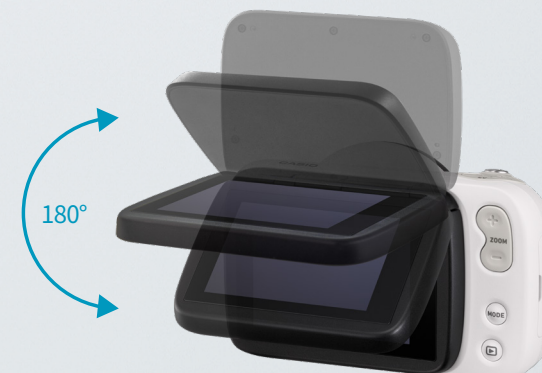
When taking an ordinary photo, uniform illumination from the ring light outside the lens enables faithful reproduction of color tones. In close-up mode, illumination from inside the lens yields a stable and clear image quality.



Ring light for ordinary shots

**Easy to view LCD monitor**

The LCD monitor can be tilted to different angles for easy visibility under all conditions.

**External monitor HDMI connector**

The camera can be connected via HDMI cable to a large monitor or projection screen for viewing of images, either in real time or afterward. This is useful for providing explanations to patients or making presentations at conferences.



• HDMI cable not included.



Micro HDMI jack



# Achieving convenience and ease of operation

Small size and light weight make the camera easy to hold and operate.

## Designed with the comments of doctors in mind

The grip features an easy-to-hold shape, and the round shape of the camera is soothing to jittery patients, while the white color and compact body create a clean appearance. These design features put high priority on the type of usability requested by doctors.



Actual size



Easy-to-use LCD touch panel

## Easy to operate

Frequently used operations are assigned to easily located buttons. With a single touch of a button, the user can switch between close-up mode, microscope mode, and other modes that make for convenient dermal observations.



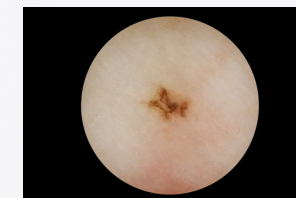
# DERMOCAMERA DZ-D100 is now even easier to use

Convenient options that make observation even easier are available.

## Small-diameter & 3D adapter set | DAS-100M \*Intact skin only

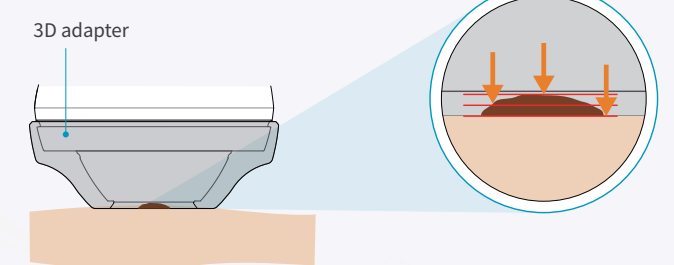
### Small-diameter adapter

When photographing lesions in locations that are difficult to focus on, such as between fingers or inside an ear, fit the small-diameter adapter to the camera to take the shot. The angle of view is 6mm.



### 3D adapter

This adapter holds the camera lens about 2mm away from the surface of the skin so it can be photographed without the lens pressing against a swollen lesion. The 3D adapter also facilitates the use of DERMO AIF (All In Focus) mode.



**DERMO AIF (All In Focus) :**  
In this mode, the camera shoots multiple images with differing focal points and merges them into a single image that is in focus over a wide range. This is a good mode for photographing lesions that have a rough surface.

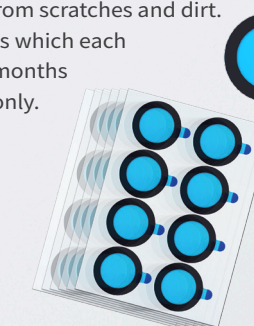
## Microscope adapter | DMS-100M

This adapter makes it possible to mount DZ-D100 to the eyepiece of a microscope. It can be mounted to eyepieces with an inner diameter of either 23.2mm or 30.0mm. The user can take pathological images observed through a microscope and can also use an HDMI cable to display images on an external monitor.



## Protective film | DFP-100M (120 pieces included)

The protective film discs are applied directly onto the camera lens to protect it from scratches and dirt. Package includes 15 sheets which each contain 8 discs. Expires 6 months after opening. Single use only.



• Please store hygienically.



Example usage



# D'z IMAGE Viewer D

## More efficient image management and observation with PC

DZ-D100 photos and videos can be easily managed on a personal computer using the D'z IMAGE Viewer D application software. Magnifying and comparing images is made simple.



## Getting a detailed look at images

### ■ Displaying images

Users can inspect images from DZ-D100 in great detail.

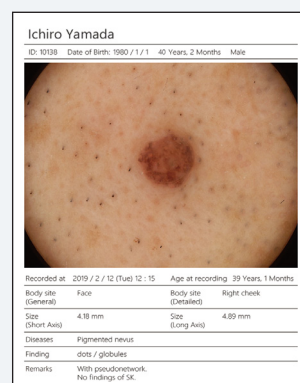


Image scaled to 1:1



Enlarged image

### ■ Printing images



Lesion information attached to an image can be printed for referrals to other medical institutions or requesting opinions from other doctors.

### ■ Tagging images

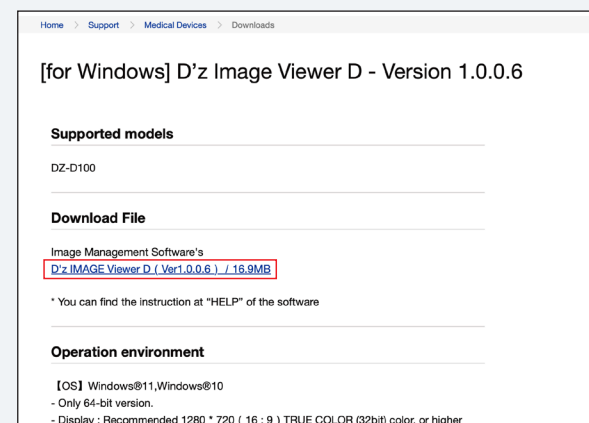
Images can be individually tagged with such information as "name of disease," "location," "size," etc.

### ■ Searching images

The desired images can be searched by "name of disease," "name of patient," "age," "gender" and other criteria.

### ■ Outputting images

Image data can be exported with patient ID information deleted, enabling safe use for papers, etc.



## Free downloads

The software can be downloaded for free.

<https://dz-image.casio.jp/mh7u2>

• See above mentioned site for recommended OS.

## Easily manage multiple images

### ■ Data transfer method

#### Data transfer in a Wi-Fi environment

##### AP mode

Transfer data directly to a computer via Wi-Fi



##### STATION mode

Transfer data by connecting DZ-D100 to a computer via a Wi-Fi router

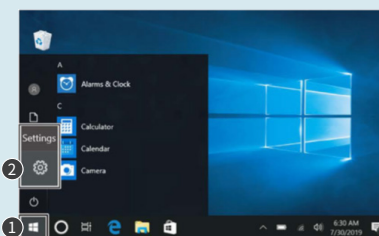


#### Data transfer method

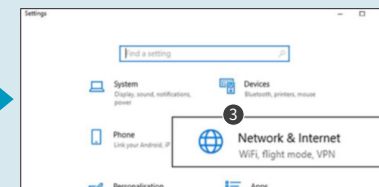
- Auto Transfer: Data is automatically transferred each time a photo is shot using DERMOCAMERA (DZ-D100).
- Bulk transfer: [Image Import] button initiates a bulk data transfer.

#### [ Setting Up the Wi-Fi Connection on your PC ]

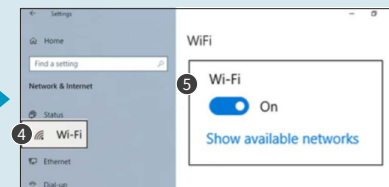
From "Start ①" on the Windows desktop screen, click "Settings ②".



Click "Network & Internet ③".



- Click "Wi-Fi ④" and check that the Wi-Fi setting is enabled.
- Click Show available "networks ⑤".

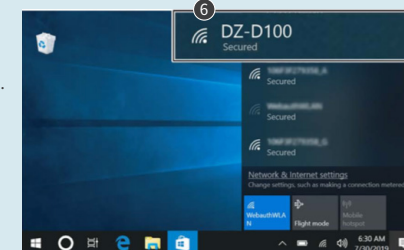


#### Wi-Fi connection via AP mode

Select the camera SSID from the PC network list (SSID) and click "Connect".

SSID: DZ-D100  
Password: 00000000

- \* SSID and password are default settings.
- \* To protect personal information, it is recommended that you change the password.



#### Wi-Fi connection via STATION mode

Select the router SSID from the PC network list (SSID) and click "Connect".



## Data transfer when Wi-Fi is not available

### Using USB cable



#### Data transfer method

- Import function enables the user to import data from a designated location (drive or folder).

\* USB cable / memory card is not bundled in product.

### Using memory card



### ■ Automatic sorting by patient ID

D'z IMAGE Viewer D automatically sorts images tagged with patient IDs.