Digimage System

Instruction Manual

Catalog No. DI-01 DI-HD DI-02





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Packing list

DI-01

- -1x Canon EOS R100 Digital Camera Package (Includes all accessories and manuals)
- -1x Memory Card
- -1x Memory Card Reader
- -1x 8" TFT Color Screen
- -1x Hood
- -1x Power Cord

DI-HD

- -1x 8" TFT Color Screen
- -1x Hood
- -1x Camera Adapter
- -1x Power Cord

DI-02

- -1x Hood
- -1x Camera Adapter

Signed by: Date:

Major Science is liable for all missing or damaged parts / accessories within 7 days after customer received this instrument package. Please contact Major Science immediately regarding this issue. If no response within such time period from consignee party, that will be consignee party's whole responsibility.

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Warning

Major Science Digimage System has been tested and found to be compliant with CE regulations. Digimage System is also RoHS compliant to deliver confident product which meet the environmental directives. These limits were designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment can generate, use, and radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. It is strongly recommended for the user to read the following prints carefully before operating this equipment

- **1.** Read and follow the manual instructions carefully.
- **2.** Do not alter the equipment. Failure to follow these directions could result in personal and/or laboratory hazards, as well as invalidate equipment warranty.
- **3.** Use a properly grounded electrical outlet with correct voltage and current handling capacity.
- **4.** Disconnect from power supply before maintenance and servicing. Refer servicing to qualified personnel.
- 5. If solution is accidentally spilled on the instrument, disconnect grounded plug and carry out appropriate decontamination measures. For instance, turn the instrument upside down to avoid solution contacting the internal components. Remove bottom cover and inspect to assure solution has not contacted inner components or connectors. Replace damaged parts contacted inner components or connectors. Replace damaged parts accordingly.
- **6.** Do not use in the presence of flammable or combustible material, fire or explosion may result. This device contains components which may ignite such material.
- 7. Refer maintenance and servicing to qualified personnel.
- **8.** Ensure that the system is connected to electrical service according to local and national electrical codes. Failure to comply may cause fire or shock

hazard.

9. It is strongly recommend for user to wear probable UV protection equipment whilst operating a Compact Digimage System.



Warning: High Ultraviolet Radiation!

10. The instrument is intended for scientific research use only, and must be operated by qualified personnel who realize the potential risks of the use of this instrument. Major Science makes no claim that its instruments are designed or certified as medical device; no representation, promises, express warranty, or implied warranty will be made concerning the suitability of these instruments for any medical use. Major Science will not provide customers any notice or certification concerning its products being compliant as a medical device.

Safety Information

Use high level of precaution against any electrical device. Before connecting the electrical supply, check to see if the supply voltage is within the range stated at the rating label, and see to it that the device be seated firmly. Place the unit in a safe and dry location; it must NOT touch the surrounding. Follow the safety precautions for chemicals / dangerous materials. If needed, please contact qualified service representative or <u>service@majorsci.com</u>

Environmental Conditions

Ensure that the instrument is installed and operated strictly under the following conditions:

- 1. Indoor use only
- **2.** ≤95% RH
- 3. 75 kPa 106 kPa
- 4. Altitude must not exceed 2000 meters
- **5.** Ambient to 40°C operating temperature
- 6. Pollution degree: 2
- 7. Mains supply voltage fluctuations up to $\pm 10\%$ of the normal voltage

Avoiding Electrical Shock

Follow the guidelines below to ensure safe operation of the unit. The Digimage System has been designed to utilize shielded wires thus minimizing any potential shock hazard to the user. Major Science recommends against the use of unshielded wires.

To avoid electrical shock:

- In the event of solution spilling on the instrument, it must be dried out for at least 2 hours and restored to NORMAL CONDITION before each operation. NEVER connect or disconnect wire leads from the power jacks when the power is on.
- **2.** WAIT at least 5 seconds after stopping a run before handling output leads or connected apparatus.
- **3.** ALWAYS make sure that hands, work area, and instruments are **clean** and **dry** before making any connections or operating the power supply.
- **4.** ONLY connect the power supply to a properly grounded AC outlet.

Avoiding Damage to the Instrument

Do not attempt to operate the device if it is damaged.

Protect this unit from physical damage, corrosive agents and extreme temperatures (direct sunlight, etc.)

For proper ventilation and safety concerns, keep at least 10 cm of space behind the instrument, and at least 5 cm of space on each side.

Do not operate the Digimage System in high humidity environments (>95%), or where condensation may occur.

Prior to using any cleaning or decontamination methods other than manufacturer's recommendation, users should check with the manufacturer's instruction to see if the proposed method will damage the equipment.

UV Tubes Disposal

The UV tubes contain mercury! Please dispose of the tubes in accordance with local regulations. It is important to handle the waste tubes with care to protect public health and the environment. For further information about recycling waste tubes, please see <u>www.lamprecycle.org</u>.

Symbols

The symbols used on the Digimage System are explained below:





Indicates a warning of UV radiation. UV radiation can cause serious damage to unprotected eyes and skin. Be sure all personnel in the area are properly protected before each operation.



Indicates disposal instruction

DO NOT throw this unit into a municipal trash bin when this unit has reached the end of its lifetime. To ensure utmost protection of the global environment and minimize pollution, please recycle this unit

Section 1 Introduction

1.1 Overview

Major Science Digimage System is designed to be user-friendly for gel documentation and operation purposes. It is space compact with the flexibility to connect to a computer for digital processing of gel images. Digimage System provides competitive pricing with great value and convenience for the user. Most importantly, Digimage System is designed to comply with the CE and the RoHS regulations.

1.2 Control and Features

The Digimage System is a simple, compact gel documentation system with a rear digital control panel. It contains the Canon EOS R100, a digital camera with a superb resolution of 24.1 megapixels.

The image is viewed from a large 8" TFT colorful screen with monitor purpose only. For a lab with limited space and low budget requirements, the Digimage System is definitely your top choice since it's computer-free operation. A variety of images can be captured including: agarose and other fluorescent gels, colorimetric gels, auto radiography film, and blotting membrane. A safety switch is equipped to turn off the UV Transilluminator automatically when the front door is opened. Files can be saved in a variety of formats, including RAW format, for transfer to a computer for storage and analysis.

Features

- 24.1 megapixel digital camera
- High resolution 8" TFT screen
- Digital control panel
- Compact chamber and lightweight
- Can be operated PC free
- Inner white light LED at two sides
- Safety door switch
- Optional gel analysis software package available
- Universal rated voltage: 100-240V~

1.3 Outlook





Touch pad control panel



Section 2 Technical Specifications

Camera	
Model	Canon EOS R100
Camera Type	24.1MP digital camera, Wi-Fi function
Effective Pixels	Approx. 24.1 megapixels (Total Pixels Approx. 25.8 megapixels)
Sensor	22.3 x 14.9mm CMOS sensor
Max. Aperture	f/4.5-6.3 (IS STM Lens)
Shutter Speed	30 - 1/4000 sec (1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)
Storage Media	SD memory card Wi-Fi to PC, Smartphone or Tablet
Computer Interface	USB Type-C, HDMI(Micro), WiFi connection
Other Interface	HDMI(Micro), Wireless LAN, Bluetooth
Video Out	MP4, Full HD / HD / 4K
Image Resolution	(3:2)6000x4000
Lens	35mm film equivalent to 1.6x the focal length
File Format	Designed rule for Camera File system 2.0
Data Type	JPEG, RAW(CR3 14 bit), RAW+JPEG, simultaneous recording
Weight (body only)	Approx 356g
Operating Environment	0 – 40 °C, 85% or less humidity
Filter (for camera)	EtBr filter / SYBR Green filter / Amber Filte *Optional, ordered separately
lonitor	
Туре	8" TFT LCD Monitor
Resolution	1024 x 600 pixels
Brightness	300 cd / m ²
Constant Ratio	700:1
Display Mode	NTSC / PAL auto switch

DI-01	
Multi-Power Source	For camera, Inner light lamp, TFT monitor
Inner White Light	2 white LED, 3 watt/LED
Safety Device	Safety door switch
Dimension (WxLxH)	290x339x403 mm
Material	Painted metal
Rated Voltage	110/220V~, 50/60Hz, 1.6A
Weight	Approx. 5.89 kg
Camera Adapter	Aluminum

Note: Parts of the contents in this manual are excerpt from Canon EOS R100 Camera user guide. For detailed camera specification and setting, please refer to Canon EOS R100 user guide on Canon official website. <u>https://www.canon.com.cy/cameras/eos-r100/specifications/</u>

DI-HD

Monitor	
Туре	8" TFT LCD Monitor
Resolution	1024 x 600 pixels
Brightness	300 cd / m ²
Constant Ratio	700:1
Display Mode	NTSC / PAL auto switch
DI-HD	
Dimension (WxLxH)	290x339x398 mm
Weight	Approx. 5.4 kg
Multi-Power Source	For camera, Inner light lamp, TFT monitor
Inner White Light	2 white LED, 3 watt/LED
Safety Device	Safety door switch
Material	Painted metal
Rated Voltage	110/220V~, 50/60Hz, 1.6A
Camera Adapter	Aluminum

DI-02

....

DI-02		
Dimension (WxLxH)	290x220x398 mm	
Material	Painted metal	
Weight	Approx. 3.365kg	
Camera Adapter	Aluminum	

Section 3 Installation Instructions

3.1 Pre-install the Camera

In normal situation, Step 1-6 have been done in the factory before shipping; user could directly jump to Step 9.







Note:

1. Make sure you have closed the battery cover properly; otherwise the camera cannot be activated.

2. Charge the battery on the day before or on the day it is to be used.

3. Charged batteries gradually lose their charge, even when they are not used.

4. After charging the battery, remove it and disconnect the charger from the power outlet.

5. When not using the camera, remove the battery.

6. Store the battery with the protective cover attached. Storing the battery when it is fully charged may lower the battery performance.

7. If the battery becomes exhausted quickly even after having been fully charged, the battery has reached the end of its service life.

Purchase a new battery, please.

*SOURCE: https://cam.start.canon/fa/C015/manual/html/UG-01_Preparations_0020.html

3.2 Assemble DI-01 Series



Section 4 Set the Camera

 \star In this chapter we provide table of recommended values, and they have already been set before shipping. You can go back and refer to this chapter anytime if you are not sure about the original setting before shipping.



★ Some common and most-used settings are provided below. For more detailed table, please refer to 4.2.

· · ·	
Rec. Mode	M mode
Focus mode	MF
ISO speed	800
Shutter speed	1 sec.
Aperture	F4.3*

*The aperture value may change when you zoom in/out images by rotating the lens. This is a normal situation which every camera would correct aperture itself automatically. You shall not enter the setting page and change the aperture yourself.

★ If you find the original settings cannot fit your needs--for example, the after-shot picture is too bright (over-exposure) or too dark (under-exposure), please first change the value of shutter speed. Shorten shutter speed for too bright picture; prolong shutter speed for too dark picture. If it still cannot meet your requirement, then consider change the ISO sensitivity. Lower ISO value for too bright picture; enhance ISO value for too dark picture.

4.1 Turn on the Camera

Set the power switch to "ON" to turn on the camera. Switch the mode dial to "M".





4.2 Setting M Mode and Each Parameter

This camera has different custom modes which could be selected via Mode Switch. We suggest switch the mode dial to **M Mode** and set **M mode** for black& white photo.

5. Use the mode dial to switch to **M** mode.



6. Press **MENU** button to enter **Shooting Settings** and set the recommended parameter value as follows:

	Menu Item(DSHOOT)	Setting
	Shooting mode	м
	Image quality	A L
	Still Image Aspect Ratio	16:9
	Image review	2 sec.
1	ISO speed settings	
I	ISO speed	800
	Max for Auto	12800
	Auto Lighting Optimizer	Disable 💽
	Highlight tone priority	OFF
	Flash Control	
	Flash firing	۲
	E-TTL II meter.	Evaluative
	Red-eye reduc.	Enable
2	Slow synchro	1/200 -1/60 A
	Build-in flash settings	
	Flash mode	E-TTL II
	Shutter sync.	1st curtain
	▶exp. comp.	52 ±0
	Picture Style	Monochrome
3		*Monochrome 🖅 : for capturing
		images of DNA gels.
		*Standard 🖅 : for Coomassie
		Blue and silver stain protein gels.

	Lens aberration correction	
	Peripheral illum corr	OFF
	Digital Lens Optimizer	ON
	Long exp. noise reduction	AUTO
	High ISO speed NR	Standard II
	AF operation	ONE SHOT AF
	AF method	AFបា
4	Eye Detection AF	Disable
	Continuous AF	Disable
	Focus mode	MF
	MF peaking setting	
	Peaking	Off
	Level	High
5	Color	Red
	AF-assist beam firing	OFF
	Lens electronic MF	⊙ →0FF
	Focus/control ring	FOCUS
	Drive mode	Single shooting (□ᡭ₀)
	IS (Image Stabilizer) mode	
	IS mode	On
6	P,∎Digital IS	Enable
	Review duration	2 sec.
	Metering timer	8 sec.
	Expo. simulation	Enable
	Shooting info. Disp.	
	VF vertical display	On
7	Grid display	Off
· /	Histogram	Brightness
	VF display format	Display 1
	Disp. performance	Power saving
	Movie rec quality	FHD 25.00P [IPB]
	Sound recording	Auto
	ISO speed settings	
8	Max for Auto	12800
	Movie Servo AF	Enable
	Auto slow shutter	A-SLÓW ON
	Shutter btn function for movies	Meter.+I Servo AF

4.3 Set Shutter Speeds & Aperture Values ([M] Mode)

The following camera buttons and controls are represented by icons.



I. When in the [M] mode, press the [] button, choose adjustment of shutter speed or aperture value, and when [] is displayed, turn the [] is displayed, turn the [] is value.



II. Press [**ISO**] button and set a value of ISO speed by press [\blacktriangleleft] [\blacktriangleright] or dial. (When the camera is connected to the TFT screen, Press [**ISO**] button and set a value of ISO speed by press [\blacklozenge] [\blacklozenge] or dial.



III. When the ISO speed is fixed, an exposure level mark based on your specified values is shown on the exposure level indicator for comparison to the standard exposure level. The exposure level mark is shown as $[\P]$ or $[\clubsuit]$ when the difference from standard exposure exceeds 3 stops.



4.4 Condition Settings

Applications	ISO	Exposure Time	Aperture
DNA Sample	800	1" or longer	F4.3
Protein Sample	800	1/100, 1/200, 1/300,	F4.3
Western Blot	800	1/10, 1/20, 1/30,	F4.3
Radiographic Film	800	1/100, 1/200, 1/300,	F4.3

Section 5 Operation Instructions

5.1 Install the UV Transilluminator Caution

UV transilluminator is a powerful source of UV radiation which will cause damage to unprotected eyes and skin. Before operating UV transilluminator, be sure all personnel in the area are properly protected. It is preferable that the UV transilluminator be installed and operated in a darkroom where access and exposure is limited while the unit is in operation. Each UV transilluminator is equipped with an UV blocking cover. Even though this cover blocks the ultraviolet radiation emitted by the unit, UV blocking eyewear should be worn as well.

5.2 Install the UV Transilluminator



3. Plug three-pronged power cord into a grounded three-prong AC outlet of the appropriate voltage.



Note: Step 2 is the key step for applying the safety door switch of the Digimage hood to control the UV transilluminator, please do follow the installation instruction to connect the Digimage hood and UV transilluminator.

5.3 Imaging Various Samples

The Digimage System provides various applications in gel documentation. Please refer to the operation guide below for detailed instruction.

5.3.1 DNA Sample Imaging

- **1.** Turn on main power and switch on the white light.
- 2. Turn on camera. (For camera setting, please refer to Section 3 Set the Camera).
- 3. Open the Hood door. (The door contains a safety switch, the UV Transilluminator will automatically shut off when door is open.)
- 4. Place gel onto the center of UV Transilluminator plate.
- **5.** Switch off the white light.
- 6. Close the door.
- **7.** Turn on the UV light source.
- **8.** Change the Shutter Speed (1/4000 30"). For this application, we recommend setting it to 1" (Factory setting) or longer.
- Change the metering mode (Evaluative, Spot AE Point, Partial Metering, Center Weighted Avg.). For this application, we recommend setting it to Center Weighted Avg.
- **10.** Change the ISO value (ISO 100-12800 and Auto). For this application, we recommend using ISO 800 to get the highest Signal to noise ratio (Factory setting).
- 11. Display the magnifying frame. Press[.] button, the magnifying frame is shown[.]. The magnification area and magnified ratio are shown in the lower right.



Step 8-Step 10 _can be preset before shooting. Please refer to Section 4 Set the Camera. **12.** Select the area to magnify by press $[\mathbf{4}] [\mathbf{A}] [\mathbf{V}] [\mathbf{V}]$.



13. Activate magnification. Touch [INFO] to magnification between 1x, 5x, and 10x. The magnification area and magnified ratio are shown in the lower right.



$$\longrightarrow x5 \rightarrow x10 \rightarrow x1$$
 —

14. Rotate the lens to zoom in and out to focus on the magnified image. Full press the shutter button to take a picture.





- 15. Press [▶] button and then press [ⓐ] button to view the pictures on the memory card full-frame in the monitor. Press [◀] [▶] button to view the previous/ next picture. Press[▶] button again to return image shooting mode.
- **16.** Under image viewing mode, press the [\overleftarrow{m}] button to delete the displayed image.



To center the magnified area, press the $[\bigstar]$ button, Press $[\triangleleft]$ $[\blacktriangleright]$ button to move the area of image.



- **17.** Finish capturing image, please switch Camera off, and then turn off UV Transilluminator and main power.
- **18.** Remove gel from Hood.
- **19.** Clean the UV transilluminator and dry the filter area. For more detailed information, please consult the instruction manual of UV transilluminator.

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DNA sample imaging example: ISO 400; f/4.3; Shutter speed: 1 Sec.

5.3.2 Protein Sample Imaging

- **1.** Disconnect the wire cable between hood and UV transilluminator (*Please* make sure that the UV transilluminator is OFF).
- **2.** Hood has two built-in white light lamps. Use these inner light lamps as the light source for this application.
- **3.** Use the mode dial to switch to A (for color photo).
- **4.** Set the aperture fixed on F4.3, change the Shutter Speed from 1/10, 1/20, 1/30.
- 5. Use the DNA sample imaging procedure (Section 5.3.1 step 8 19) for protein sample image capture.

5.3.3 Western Blot

- **1.** Disconnect the wire cable between hood and UV transilluminator (*Please make sure that the UV transilluminator is OFF*).
- **2.** Hood has two built-in white light lamps. Use these inner light lamps as the light source for this application.
- **3.** Use the mode dial to switch to A (for color photo).
- **4.** Set the aperture fixed on F4.3, change the Shutter Speed from 1/10, 1/20, 1/30.
- Use the DNA sample imaging procedure (Section 5.3.1 step 8 19) for protein sample image capture

5.3.4 Radiographic Film

- **1.** Disconnect the wire cable between hood and UV transilluminator. (*Please ensure that the UV transilluminator is OFF*).
- **2.** Move the hood onto the optional white light table.
- **3.** Switch off the white light from Digimage hood and turn on the optional white light table.
- **4.** Use the mode dial to switch to M mode (for Black/White photo).
- **5.** We recommend setting Aperture fixed on F4.3; and the Shutter Speed from 1/100, 1/200, 1/300....
- Use the DNA sample imaging procedure (Section 5.3.1 step 8 19) for protein sample image capture.

Note: The above setting condition is for reference, user can adjust setting according to the sample situation. For detailed camera operating and setting, please refer to Canon EOS R100 user guide on Canon official website. https://cam.start.canon/fa/C015/manual/html/index.html

Section 6 Cleaning and Maintenance

Wipe clean the device with a damp, soft cloth after use of Digimage System and with fine lens tissue to clean the camera for daily maintenance. Do not use corrosive detergents or solutions to clean. Besides the above general cleaning and dusting, Digimage System does not require other preventive maintenance.

Section 7 Trouble Shooting Guide

Many operating problems may be solved by carefully reading and following the instructions in this manual accordingly. Some suggestions for troubleshooting are given below. Should these suggestions not resolve the problem, please contact our SERVICE DEPARTMENT or a distributor in your region for assistance. If troubleshooting service is required, please include a full description of the problem.

Problem		Suggestion
Screen does not light on		Check if main power switch is switched on
		There is a "Green" LED on the upper right side.
		Please check if the light is on. If not, press
		"Screen power switch"
No Signal from Camera	$\boldsymbol{\lambda}$	Check if the camera is turned on.
	\triangleright	Check if the battery cover has been closed
		properly.
	\blacktriangleright	Check if power wire to camera is properly
		connected.
	\triangleright	Check if AV wire to camera is properly
		connected.
Lamp does not light on	\blacktriangleright	Check if white light lamp switch is switched on.
Unclear Image for the		Make sure to press the 🕨 key first to
Printed Photos		
		review the images,
After shooting, the	\triangleright	Please first change the value of shutter speed.
photo is too bright or too		Shorten shutter speed for too bright picture;
dark.		prolong shutter speed for too dark picture.
		If it still cannot meet your requirement, then
		consider change the ISO sensitivity. Lower ISO
		value for too bright picture; enhance ISO value
		for too dark picture.
The image on monitor		In extreme condition, for example, the shutter
and the after-shot photo		speed is set too high or too low, there will be
do not look identical.		inconsistency between image on monitor and
		after-shot photo. Try to reset shutter speed that
		is close to factory setting.

Section 8 Ordering Information

MODELS & APPLICATIONS		
Cat. No.	Description	
DI-01	Digimage System with 24.1 megapixels digital camera	
DI-HD	Digimage System without digital camera	
DI-02	Digimage System Hood only	
Filter (for camera) [*] Optional, Ordered Separately.		
DI-EB49	EtBr optical filter 49mm	
DI-SG49	SYBR Green optical filter 49mm	
DI-AM49 Amber filter 49mm		
<i>Note:</i> For use with UV light as activation source, optical filters should be used. For use with blue light as activation source, amber filters should be used.		

ACCESSORY	
Cat. No.	Description
DI-WLA3-110/220	White Light Table 297 × 400 mm (110 or 220V)
DI-WLA4-110/220	White Light Table 200 × 300 mm (110 or 220V)
DI-WLA6-110/220	White Light Table 105 × 150 mm (110 or 220V)

BUNDLE PACKAGE	
Cat. No.	Description
MUV21-CP-01	Complete package of MUV21-312 Transilluminator and
	Digimage System
MUV26-CP-01	Complete package of MUV26-312 Transilluminator and
	Digimage System
MUVB-111-CP-01	Complete package of SmartView 111 Transilluminator
	and Digimage System
MUVB-114-CP-01	Complete package of SmartView 114 Transilluminator
	and Digimage System

Note: Parts of camera icons in this manual are excerpt from Canon EOS R100 Camera user guide. For more detailed of camera icons, please refer to Canon EOS R100 user guide on Canon official website. https://cam.start.canon/fa/C015/manual/html/index.html

Section 9 Warranty

Major Science warrants apparatus of its manufacture against defects in materials and workmanship, under normal service, for <u>one year from the</u> <u>shipping date to purchaser</u>. This warranty excludes damages resulting from shipping, misuse, carelessness, or neglect. Consumable parts (Protective rubber gasket) and the camera (Canon EOS R100), including those purchased from Major Science or other distributors, are not covered by our warranty. Major Science's liability under the warranty is limited to the receipt of reasonable proof by the customer that the defect is embraced within the terms of the warranty. All claims made under this warranty must be presented to Major Science within one year following the date of delivery of the product to the customer.

*About the maintenance service of camera, please contact the local Canon Customer Care Center.(<u>https://global.canon/en/support/</u>)

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