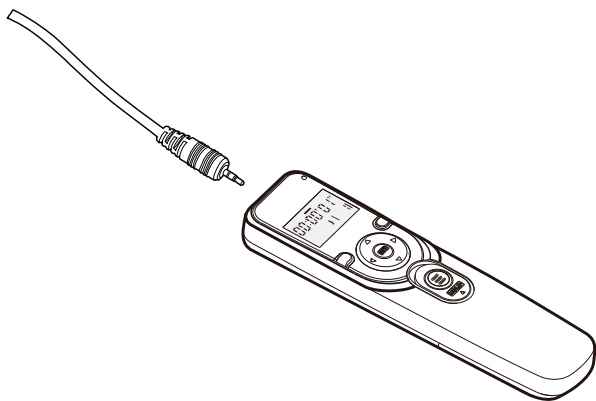


USER GUIDE

INSIGNIA™

Digital Interval Timer

NS-DURT100



Before using your new product, please read these instructions to prevent any damage.

Insignia Digital Interval Timer

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Introduction

Thank you for purchasing an Insignia digital interval timer. This timer has multiple functions, including precise control over shutter delay, exposure time, interval, and number of shots.

Safety information

To prevent damage to your product or injury to yourself or to others, read the following safety precautions in their entirety before using this product. Keep these safety instructions where all those who use this product will read them.

- 1 Disassembling or modifying this device could result in product malfunction. If the device breaks open, remove the batteries and send it to an authorized maintenance center.
- 2 Handling this device with wet hands or immersing it in or exposing it to water or rain could result in a malfunction or damage to the device.
- 3 Using this device in the presence of a flammable gas could result in explosion or fire.

- 4 Keep out of reach of children. This device contains small parts which may pose a choking hazard. Consult a physician immediately if a child swallows any part of this device.
- 5 Turn off this device by immediately removing the batteries in the event of malfunction.
- 6 Turn off this device by immediately removing the batteries if you notice smoke or an unusual smell coming from it. Return the device to an authorized maintenance center.
- 7 Do not leave the device in a closed vehicle in the sun or in other areas subject to extremely high temperatures. This could result in fire or in damage to the casing or internal parts.
- 8 Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this device:
 - Use only batteries listed in this manual. Do not mix old and new batteries or batteries of different types.
 - Read and follow all warnings and instructions provided by the manufacturer.
 - Do not short circuit or disassemble the device.
 - Do not expose to flame or excessive heat.
 - Do not attempt to insert batteries upside down or backwards.
 - Batteries are prone to leakage when fully discharged. To avoid damage to the device, be sure to remove the batteries when leaving the device unattended for prolonged periods or when no charge remains.
 - Should liquid from the batteries come into contact with skin or clothing, rinse immediately with fresh water.
- 9 Do not drop. The timer may malfunction if subjected to strong shocks or vibration.
- 10 Avoid sudden changes in temperature. For example, entering or leaving a heated building on a cold day can cause condensation inside the device. To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature.

- 11 Keep the device away from strong magnetic fields. Strong static charges or the electromagnetic fields produced by equipment such as radio transmitters could interfere with the device.

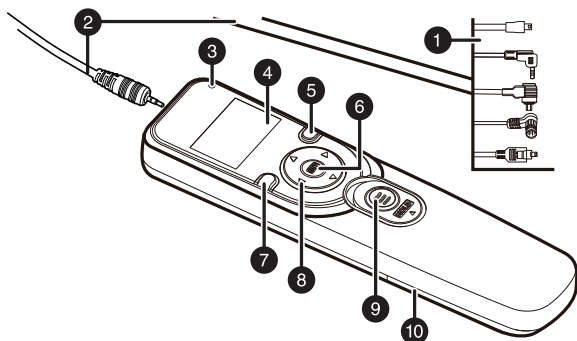
A note on electronically controlled devices:

In extremely rare instances, unusual characters may appear in the display panel and the device may stop functioning. In most cases, this phenomenon is caused by a strong external static charge. Turn the camera off, disconnect the interval timer, remove the batteries, and then replace them once the display panel has turned off. Caution is required when handling the batteries, which may be hot after use. In the event of continued malfunction, contact your retailer or representative.

LCD displays tend to darken at high temperatures and exhibit slower response times at low temperatures. This does not indicate a malfunction.

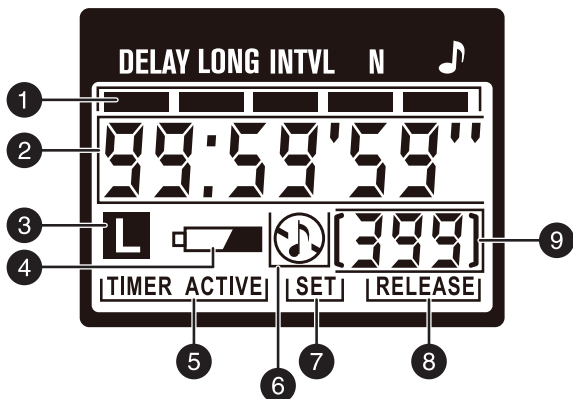
Features

Body



#	Item	Description
1	Connectors	A selection of connectors (provided) to fit Canon, Nikon, and Sony cameras.
2	Connector cord	Connect to your camera
3	Indicator light	Two-color shutter status indicator.
4	Display	Refer to "Display Panel" on page 6.
5	 Timer start/stop button	Press to start and stop the timer.
6	SET button	Press to set the timer.
7	Lighting/lock button	Activates the control panel backlight and locks the controls.
8	Arrow buttons	Press to navigate the display panel.
9	Shutter release button	Press to activate the shutter. Press and slide to hold the shutter open.
10	Battery compartment	Install the batteries in this compartment.

Display Panel



#	Item	Description
1	Function cursor	Indicates the current operating mode of the timer.
2	TIME indicator	Indicates how long before the timer shoots the picture.
3	LOCK indicator	Indicates when the lock is engaged.
4	Low-battery indicator	Blinks when the batteries are almost depleted.
5	TIMER ACTIVE indicator	Indicates when the timer is active.
6	Beeper indicator	Indicates when the beeper is on.
7	SET indicator	Indicates when the timer settings are being adjusted.
8	RELEASE indicator	Indicates when the timer has been released.
9	Shot indicator	Indicates the number of shots remaining in the current session.

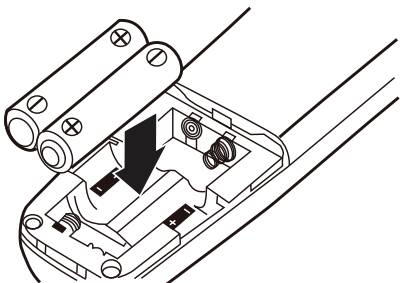
Package contents

- Timer
- AAA batteries (2)
- Connector assortment (5 cables)
- *User Guide*

Setting up your timer

Installing the batteries

- 1 Turn over the interval timer control.
- 2 Slide off the top of the battery compartment.
- 3 Insert two AAA alkaline batteries (provided). Make sure that you pay attention to the orientation of the batteries as shown on the bottom of the compartment (+ to + and - to -).



Replacing the batteries

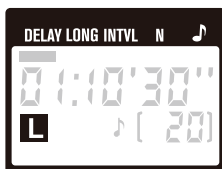
- 1 Check to determine that the TIMER ACTIVE and RELEASE indicators are not displayed.
- 2 Turn the camera off and disconnect the connector cord.
- 3 Remove the old batteries.
- 4 Insert the new batteries.

When you won't be using the timer for an extended period of time

The digital interval timer is not equipped with an off switch. To reduce the drain on the batteries when it is not in use, make sure that the **TIMER ACTIVE**, **SET**, and **RELEASE** indicators are not displayed. The drain on the batteries increases when these indicators are flashing. You may also remove the batteries if the timer is not going to be used for an extended time.

Turning on the backlight

- Press the Lighting/lock button briefly to activate the control panel backlight. The backlight remains on for about six seconds. Pressing the arrow button while the back light is on extends the timer for another six seconds.



Locking the controls

- To lock all controls except the Shutter-release and Lighting/lock buttons, press the Lighting/lock button until the lock icon (**L**) is displayed in the control panel. To release the lock, press the Lighting/lock button until the lock icon turns off.

Using the digital interval timer

Check the camera battery level and the number of exposures remaining before using the timer (see the camera manual for details). The timer continues to operate even when no pictures can be recorded, such as when the camera's memory card is full. An AC adapter for the camera (available separately) is recommended for longer sessions.

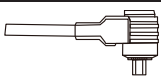
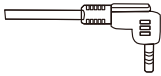
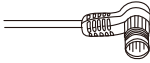
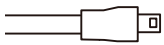
On some cameras the Auto Focus (AF) activation can be deactivated. For multiple shot sessions, if your subject is stationary, the AF feature should be turned off after the initial focus is set to ensure the camera does not refocus for each shot. This can also reduce the shot-to-shot time delay.

Notes

Before using the timer for extended periods, make sure that the batteries are fully charged. Replace the batteries when the low battery indicator  flashes in the display panel.

Connecting the digital interval timer

- 1 Turn your camera off.
- 2 Make sure that the TIMER ACTIVE and RELEASE indicators are off. Press the  timer Start/Stop (see #5 under "Body" on page 5) button if the timer is active.
- 3 Remove the remote cord socket cover from the camera, then insert the interval timer connector.
- 4 Connect the other end of the cable to the interval timer and turn to tighten.

Camera	Connector Image
Canon 3-pin	
Canon sub-mini	
Nikon DC2	
Nikon 10-pin	
Sony Multi-Terminal	

Cable	Compatible Cameras
Canon sub-mini	EOS 70D, EOS 60D, EOS 60Da, EOS 300D, EOS 350D, EOS 400D, EOS 300, EOS 700D, EOS 500D, EOS 300X, EOS 550D, EOS 1100D, EOS 600D, EOS 650D, EOS 1200D, EOS 1000D, EOS 450D, EOS 750D, EOS 760D, Canon Digital Rebel XT
Canon 3-pin	EOS 10D, EOS 20D, EOS 20Da, EOS 30D, EOS 40D, EOS 50D, EOS 5D, EOS 5D Mark II, EOS 5D Mark III, EOS 7D, EOS D30, EOS D60, EOS-1D, EOS-1D Mark II, EOS-1D Mark IIN, EOS-1D Mark III, EOS-1D Mark IV, EOS-1D X, EOS-1Ds, EOS-1Ds Mark II, EOS-1Ds Mark III, EOS-1v, EOS-1v HS, EOS 3
Nikon 10-pin	D3, D2 Serial, D1 Serial, D700, D300, D200, D100 (need MB-D100 battery group), F6, F5, F100, F90X, F90, D810
Nikon DC-2	D7000, D7100, D5000, D5100, D5200, D5300, D3200, D3300, D90, D750, D610, D5500, D7200, D200, D70
Sony Multi-Terminal	ILCA-77M2, α3000, α100, α700, α350, α300, α200, α900, α850, α500, α550, α450, α33, α55, α35, α37, α58, α560, α580, α65, α57, α77, ILCE-7M2, I LCE-5100, ILCE-7S, ILCE-5000, ILCE-6000, ILCE-7R, ILCE-7

Using the digital interval timer for various functions

You can use the digital interval timer to adjust:

- The delay before the first shot
- Exposure time
- Interval time
- Number of shots
- Manual shutter release

Using the digital interval timer as a manual shutter release

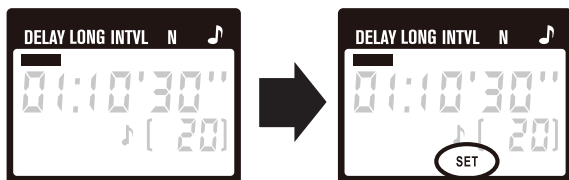
- Take photographs manually by pressing the Shutter-release button on the interval timer. Photographs can be taken manually even when the timer is running.

Using the digital interval timer for timed/long exposure photographs

- 1 Adjust the camera settings as shown below.

Exposure mode	M (manual)
Shutter speed	Bulb
Focus mode	AF-C (continuous-servo autofocus" or M (manual)
Shutter mode	S (Single frame)

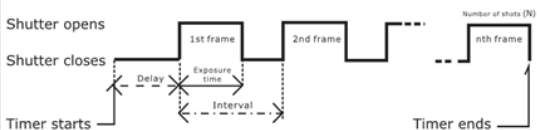
- 2 Press the **SET** button on the timer. SET blinks in the display panel.



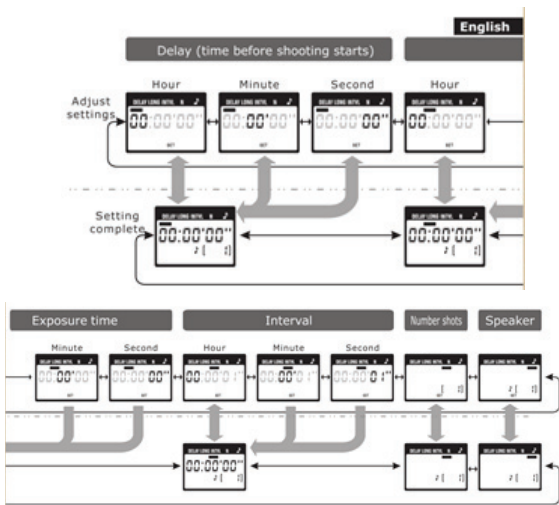
- 3 Press the arrow buttons to set the timer. Press left or right to select an option, and up or down to change the value. The current selection is indicated by the Mode cursor.

Option	Description	Supported setting
DELAY	Delay before first shutter release	0 sec. to 99 hrs. 59 mins. 50 sec. (in one second increments)
LONG	Exposure time	
INTVL	Interval time between shots	1 sec. to 99 hrs. 59 mins. 50 sec. (in one second increments)
N	Number of shots	1 to 399, ** (unlimited)
	Speaker on/off	 On,  Off

Delay, Exposure, and Interval Settings



- 4 Press the **SET** button at any time to complete the operation and display the new settings. To view other settings, press the left or right arrow buttons. The current selection is indicated by the Mode cursor.

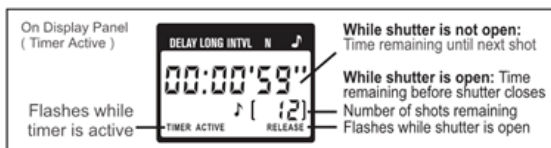


Notes

- To ensure correct operation, choose an interval of at least one second longer than the exposure time.
- When using auto focus, set the delay to three seconds or more and choose an interval of at least three seconds longer than the exposure time to make sure that the camera has time to focus.
- When using long exposure noise reduction (available with some digital cameras), the interval should be at least twice the exposure time.
- Intervals of 00:00:00 automatically reset to 00:00:01 when the **SET** button is pressed to put the settings into effect.
- Press the down arrow button to display --(unlimited), select 1 and press the arrow button down or select 399 and press the arrow button up.

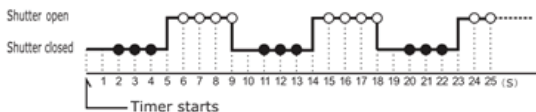
- 5 After adjusting all of the settings, press the **SET** button to put the new settings into effect. The timer beeps and the SET indicator turns off. The new settings remain in effect until you change them or until the batteries are removed or exhausted.
- 6 Press the **▶/■** (start/stop) button. The timer starts and **TIMER ACTIVE** flashes on the display panel. Between shots, the display panel shows the time remaining until the next photograph is taken. When the camera is focused (three seconds before the shutter opens), the status indicator (on the upper right corner of the timer) turns green.

While the shutter is open, the display panel shows the time remaining before the shutter closes, and the **RELEASE** indicator flashes at one-second intervals. The **FOCUS** and **RELEASE** indicators turn red. If the beeper is turned on, the timer beeps at one second intervals. The remaining number of shots changes as soon as one picture is taken.



Beeper and Release indicator

The following illustration shows when a beep will sound and the release indicator flashes ● with a delay of five seconds, an exposure time of four seconds and an interval of nine seconds.



Shooting ends automatically when the selected number of shots has been taken. To end shooting before all photographs have been taken, press the **▶/■** (start/stop) button.

Using the camera to set the shutter speed

To take photographs at the shutter speed selected on the camera, adjust the settings as shown.

Camera	Exposure mode	M (manual) or S (shutter-priority auto)
	Shutter speed	Any
	Focus mode	AF-C (continuous-servo autofocus" or M (manual)
	Shutter mode	S (Single frame)
Timer remote	Exposure time	0 seconds
	Interval	Longer than camera shutter speed**

*Select "release priority" if available.

**When using auto focus, choose an interval at least two seconds longer than the camera shutter speed to allow the camera time to focus. When using long exposure noise reduction (available with some digital cameras), choose an interval at least double the camera shutter speed.

Using the manual release

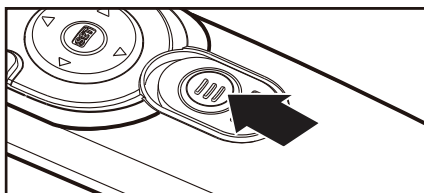
The timer Shutter-Release button functions like the camera's shutter-release button. The shutter release button can also be used when no batteries are inserted. The display panel remains off and no beep sounds.

The shutter-release button can also be used to release the shutter manually while the timer is active. When the shutter is manually released, the timer still works (including the display panel, FOCUS and RELEASE indicator lights, and beeps). If a manual release overlaps with an automatic release, the shutter remains open until both exposure times have expired.

- 1 Connect the interval timer and turn the camera on.
- 2 Choose the exposure mode, shutter speed (set to BULB for manually controlled long exposures), focus mode, and shooting mode desired.
- 3 Press the shutter-release button halfway to focus. The FOCUS and RELEASE indicator turns green.
- 4 Fully press the Shutter-release button to take a photo. When the shutter opens, the FOCUS and RELEASE indicator turns red and the camera beeps.

The RELEASE indicator flashes and the display shows the time that the shutter has opened.

To keep the Shutter-release button fully pressed for bulb photography, slide the button up (as indicated by the arrow) to the HOLD position. Slide it in the opposite direction to release the lock.



5 Release the button to end shooting.

Disconnecting the digital interval timer

- When the TIMER ACTIVE and RELEASE indicators turn off, turn the camera off, then disconnect the interval timer cable from the camera.

Specifications

Supported cameras	Nikon, Canon, and Sony cameras equipped with a remote control terminal.
Exposure times	0 seconds to 99 hours 59 min 59 seconds, in one-second increments
Number of shots	1 to 399, --(unlimited)
Power source	Two AAA 1.5V alkaline batteries
Battery life	Approximately two months of continuous shooting with a delay of 5 min, an exposure time of five minutes, and an interval of 5 min. Use of the illuminator will reduce battery life.
Operating temperature	-4°F~122°F (-20°~50°)

Dimensions	6.1 x 1.6 x 0.7 in. (155 x 40 x 18mm), excluding projections
Timer delay	Interval 1second to 99 hrs 59 min 59 seconds, in one-second increments
Weight	3.17 oz. (90 g)
Length of cord	42 in. (106.7 cm)

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product 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.

This equipment has been tested and found to comply within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

ONE-YEAR LIMITED WARRANTY - INSIGNIA

Definitions:

The Distributor* of Insignia branded products warrants to you, the original purchaser of this new Insignia-branded product ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period").

For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy branded retail store or online at www.bestbuy.com or www.bestbuy.ca and is packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy retail store location, please take your original receipt and the Product to any Best Buy store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy online web site (www.bestbuy.com or www.bestbuy.ca), mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain warranty service, in the United States call 1-888-BESTBUY or in Canada call 1-866-BESTBUY. Call agents may diagnose and correct the issue over the phone.

Where is the warranty valid?

This warranty is valid only in the United States and Canada at Best Buy branded retail stores or websites to the original purchaser of the product in the county where the original purchase was made.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to weather, lightning, and other acts of God, such as power surges
- Accidental damage
- Misuse
- Abuse
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage or power supply
- Attempted repair by any person not authorized by Insignia to service the Product
- Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product
- Display panels containing up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.

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Contact Insignia:

For customer service please call 1-877-467-4289

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