

[pro]master®

Duolight 250

*Hybrid HDSLR*

*Lighting System*



**INSTRUCTION MANUAL**

# Introduction

Thank you for your purchase of the ProMaster Duolight 250 Hybrid HDSLR Lighting System. Please take a few minutes to review this instruction manual to become familiar with the operation of your new hybrid lighting system.

## Functions



- |                                 |                                       |
|---------------------------------|---------------------------------------|
| 1. Flash Charge Indicator       | 12. Output Control Knob               |
| 2. Flash/Video Light Selection  | 13. Menu Scroll Up Button             |
| 3. LED Mode Selection           | 14. Flash Test Button                 |
| 4. Buzzer Mode Selection        | 15. Menu Enter Button                 |
| 5. Flash Trigger Mode Selection | 16. Menu Scroll Right Button          |
| 6. Flash Output Display         | 17. Tilt Lock Knob                    |
| 7. Flash Counter                | 18. Shoe Mount Lock Knob              |
| 8. LED Output Display           | 19. Sync Cord port                    |
| 9. AA or Li-ION Battery Pack    | 20. Exterior DC6V Jack                |
| 10. Optical Trigger Receiver    | 21. Wireless Remote Channel Selection |
| 11. LCD Screen                  | 22. Hot Shoe                          |
|                                 | 23. Flash Tube & LED Lamp             |

# LCD Display and Function Setting

To choose a function, use the **MENU SCROLL UP BUTTON (13)** to scroll to the function you wish to set. The active functions will blink. Use the **MENU SCROLL RIGHT BUTTON (16)** to move to the option you wish to select. Each option you scroll through will blink as it is selected. To choose that option, press **OK (15)** and the menu will stop blinking and that option will be selected.

## FLASH / VIDEO LIGHT SELECTION (2)

Choosing **FLASH ON** selects the FLASH MODE of the Duolight 250

Choosing **FLASH OFF** selects the LED video light mode of the Duolight 250

## LED MODE SELECTION (3)

In the **FLASH ON** mode you may choose **LED1** or **OFF**. Choosing **LED1** turns on the LED modeling lamp. Choosing **OFF** turns off the LED modeling lamp off. In the **FLASH OFF** mode, you may choose **LED1**, **LED2**, or **OFF**. Choosing **LED1** turns on the low power LED modeling lamp. Choosing **LED2** turns on the variable high power LED video light, and choosing **OFF** turns off the LED lamps.

## BUZZER MODE SELECTION (4)

Selecting **BUZZ ON** turns on the audio signal when you press the selection keys as well as when the flash is fully charged and ready to fire. Selecting **BUZZ OFF** turns off all audio signals.

## FLASH TRIGGER MODE SELECTION (5)

**There are 5 mode possibilities:**

**M:** Selecting M turns the built-in optical slave function OFF. The Duolight will trigger with all other methods.

**S1:** Selects the built-in optical trigger. The Duolight will only fire when triggered by another flash source.

**S2:** Selects the built-in optical trigger in the red-eye mode. The Duolight will ignore the “pre-flash” used by many cameras in the red-eye flash mode and fire in sync with the main flash. In this mode the flash is only triggered by another flash source.

**S3:** Selects the 5 Flash Burst Mode. With your camera in the continuous shooting mode, the Duolight will fire up to 5 times before resetting. This mode can be triggered by all trigger methods.

**S4:** Selects the 15 Flash Burst Mode. With your camera in the continuous shooting mode, the Duolight will fire up to 15 times before resetting. This mode can be triggered by all trigger methods.

**The Duolight 250 can be triggered in the following ways:**

Hotshoe, PC sync cord, FM wireless trigger, optical trigger, and flash test button

## FLASH OUTPUT DISPLAY (6)

The flash output display shows the current flash output selection using a scale of 2.0 to 6.0. To vary the flash output, rotate the **POWER/FLASH & LED OUTPUT CONTROL KNOB (12)**.

## LED OUTPUT DISPLAY (8)

The LED output display shows the current LED video light output selection using a scale of 2.0 to 6.0. To vary the LED video light output, rotate the **POWER/FLASH & LED OUTPUT CONTROL KNOB (12)**.

## FLASH COUNTER DISPLAY (7)

Indicates the number of flashes taken by this unit.

## FLASH CHARGE INDICATOR (1)

Indicates that the Duolight is fully charged and ready to fire or that the Duolight is recharging. If the BUZZ ON is active, the Duolight will also give an audible signal to indicate that it is ready to fire.

# OPERATION

1. Mount the Duolight on to your camera with the hot shoe or on to a light stand using the light stand adapter (included). Be sure to firmly tighten the lock knob (18) to ensure a positive connection.
2. Adjust your Duolight to the desired angle and lock into place using the tilt angle lock knob (17).
3. Connect your Duolight to a power source. You may either connect to external power using the supplied AC power supply, use AA batteries in the supplied AA battery holder or use an optional Lithium Ion battery source.
4. Turn the unit on by rotating the Power Switch (12)
5. Use the **MENU SCROLL UP BUTTON (13)** and the **MENU SCROLL RIGHT BUTTON (16)** to select your options.
6. Take pictures or shoot video.

## FM Wireless Control

Your Duolight 250 is equipped with a built-in FM wireless control. This is a good triggering option when using your light off of your camera in strong light or need to trigger your light from a longer distance.

To use, be sure that both the Wireless Control Channel (21) on the Duolight and the wireless control channel on the trigger are set to the same position. You can verify that the channels are set correctly by pressing the test button on the trigger while your Duolight is powered on and set to either the M, S3 or S4 mode.

Mount the trigger into the hot shoe of your camera. When you press your camera's shutter button to take a picture, the Duolight will fire.

## Operating on Battery Power

Your Duolight can be powered by either 4 AA batteries using the AA battery holder included with your light or using a rechargeable lithium ion battery pack (optional).

### Using AA Batteries

Remove the cover of the AA battery holder and insert 4 fresh AA batteries using care to follow the direction of the diagram inside of the battery box. Improperly inserting batteries will keep your Duolight from functioning and potentially cause damage to the unit.

### Using Rechargeable Lithium Ion Batteries

Your Duolight 250 is compatible with an NP-550 type battery. This is available as an option from your ProMaster dealer.

### Attaching the Battery/Battery Pack

Position the battery pack (AA holder or rechargeable battery) into the battery slot on the top of your Duolight 250 with the battery pack contacts facing towards the rear LCD panel of the light. Gently press down on the battery pack and slide it backwards until it locks into place. To remove the battery pack, gently press down and slide the pack towards the front of the light.

### External Power Source

The Duolight 250 can be powered by either an AC or DC external power source. Both a 110v/220v power supply and a 6v dc power cord are supplied with your Duolight 250.

To use AC power, connect the barrel connector from the power supply to the External Power Jack (20). Plug the AC cord from the power supply into an appropriate AC power source.

To use DC power, connect the barrel connector from the DC power cord to the External Power Jack (20). Plug the power cord into an appropriate DC power source.

### **Important Notes**

- Do not leave or store the light in temperatures exceed 40°C. This could adversely affect the internal structure or performance of the unit. Do not leave the light in an automobile during the summer.
- Remove the battery pack and store it separately if you do not intend to use the light for a long period of time.
- This unit is not water-resistant. Rain and humid weather may cause irreparable damage to the light.
- The light is composed of very delicate electronic parts. Be sure to protect it against shock, impact or other improper handling.
- The light contains a high voltage condenser. Do not try to open the housing or repair the light. There are no user serviceable parts and improper handling could cause serious injury.
- Do not clean the surface of the light with any petroleum solvent, detergent solution or other strong solvents. These solvents may cause damage to the light.

### **INCLUDED WITH YOUR DUOLIGHT 250**

- Duolight 250 Hybrid HDSLR Light
- AA Battery Holder
- FM Wireless Transmitter
- 110v/220v AC Power Supply
- DC Power Cord
- Studio Stand Adapter

### **OPTIONAL ACCESSORIES**

- Lithium Ion Rechargeable Battery Kit
- AA Battery Holder (spare)
- Accessory Kit including:
- Barn doors with warming filter, Egg Crate Snoot, Soft Box

## **SPECIFICATIONS**

- Guide number at ISO 100: 50(ft) / 15(m)
- LED output: Modeling Lamp - 3 watts; Video Light - 18 watts
- Color temperature: 5000K ± 200K
- Circuitry: Advanced IGBT
- Recycle time: 1 - 5 seconds
- Flash Duration: 1/800 - 1/1500 second
- LCD control center: Easily control all flash functions
- Mounting: Metal hot shoe, studio flash stand
- Wireless Trigger Maximum Distance: 98 ft. / 30 m
- Power: 4 AA batteries (not included), External AC power, External DC power, Rechargeable Li-Ion battery pack (optional)
- Weight: 18.10 oz. / 513 g
- Dimensions: 5 7/8" L x 3 3/4" W x 4 1/2" H

## **ONE YEAR UNCONDITIONAL GUARANTEE**

If for any reason, this ProMaster product fails within ONE YEAR of the date of purchase, return this product to your ProMaster dealer and it will be exchanged for you at no charge.

ProMaster products are guaranteed for ONE FULL YEAR against defects in workmanship and materials. If at any time after one year, your ProMaster product fails under normal use, we invite you to return it to ProMaster for evaluation.

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