

One Year Unconditional Warranty

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.



TTL [UNPLUGGED *Monolight*]



TTL400

TTL600

WWW.PROMASTER.COM | FAIRFIELD CT 06825

Unplugged TTL Monolights
CODE 6782, 6796

Unplugged TTL Light Kits
CODE 6789, 6803

Made in China

Congratulations on your purchase of the Unplugged TTL monolight(s). By using an Unplugged TTL Transmitter (sold separately) Unplugged TTL lights work with your camera's Through-The-Lens metering system for excellent exposures. They also offer a range of advanced features which work with your camera's functions. The availability and means of accessing many of these features will be dependent on your camera's capabilities and controls. Please be sure to read this manual so you can understand and get the most from your new light(s) while referring to your camera's user manual for greater clarification of its controls and features for flash photography.

PARTS IDENTIFICATION
TTL400 & TTL600



SPECIFICATIONS

Model	TTL400	TTL600
Guide Number	77	89
Output Power	1100 lx-s at 10'	1300 lx-s at 10'
Output Adjustment	8-stop (1 – 1/128)	
Flash Duration	1/800 – 1/20,000s	
Number of Flashes	360 times	320 times
Battery Charging Time	5 hours	
Color Temperature	5500K ± 200k	
Recycling Time	0.1-2s	0.1-2.5s
Wireless Range	300' / 100m with TTL Transmitter	
Modeling Light	10 Watt LED (adjustable intensity)	
Power Source	Li-ion battery or optional AC adapter	
Li-ion Battery	11.1V – 6000mAh	

Note: guide Number and output power are assessed with reflector installed but diffuser not installed.

Note: number of flashes ratings are at full power.

PRECAUTIONS

1. Do not disassemble, open, or repair this monolight by yourself.
2. This product is not water-resistant. Keep it away from rain, snow, and high humidity areas.
3. If you touch the battery after a period of sustained firing or charging the battery may be warm or hot. Be careful handling it.
4. Always switch the monolight OFF before changing the battery.
5. Do not fire the monolight from a short distance directly into the eyes of people or animals. This can cause damage to the retina and may even lead to blindness.
6. Avoid corrosive or flammable substances when cleaning this monolight.
7. Do not touch the monolight with wet hands. This could cause an electrical shock.

PARTS IDENTIFICATION (CONT'D)

- | | |
|--|---|
| 1. Main Power Switch | 9. Menu Button |
| 2. Secondary Power Switch / Test Button | 10. Optical Slave Sensor |
| 3. Channel Button / ID / Ti/Hz Button | 11. LCD Panel |
| 4. Multi Flash Button | 12. Rechargeable Battery |
| 5. Main Dial | 13. Tilt Control Knob |
| 6. USB Firmware Upgrade Port (mini-B) | 14. Light Stand Attachment Knob |
| 7. Modeling Light ON/OFF Button / Audible Alarm Button | 15. Light Stand Attachment Button |
| 8. Group Button (A, B, C) / Manual Output Control Button | 16. Reflector (with removable diffuser) |
| | 17. Battery Lock Buttons |
| | 18. Umbrella Slot (with locking knob) |
| | 19. Sync. Socket (3.5mm) |
| | 20. S-Mount Switch |

ASSEMBLING THE LIGHT

Mounting / dismounting the reflector and other accessories:

The light uses a ProMaster –S bayonet type mount for the included reflector. This mount is compatible with other ProMaster-S and Bowens-S type light modifiers and shapers. To attach or remove the reflector or other accessory from the front of the light start by facing the front of the light. Locate the S-Mount Switch (20). Slide this switch towards the back of the light and hold it there while rotating the reflector (or modifier) counterclockwise to remove. To mount the reflector (or modifier) align the 3 tabs on the reflector with the 3 square slots on the front of the light. Push the reflector into the slots and rotate it clockwise until it securely ‘snaps’ into place.

Note: there is an oval cutout in the reflector to allow the use of a photographic umbrella (not included). Be sure to mount the reflector with the oval hole facing down for proper positioning.

Installing / removing the battery:

TTL400 and TTL600: Both lights use the same type 6,000mAh lithium-ion, Rechargeable Battery (12). It can be removed or installed from the light by squeezing the two Battery Lock Buttons (17) and lifting the battery up and out or pushing it into the top cavity of the light. This battery can only be installed in one direction.

Note: be sure the light's Main Power Switch (1) is always OFF before removing or installing a battery.

CHARGING THE BATTERY

The battery must be removed from the light before it can be recharged. Locate the battery charger included with the unit. It is comprised of a transformer with a long cord having a small, round DC connection on one end, and a second cord with a household connector on one end. Connect the opposite end of the household cord to the receptacle in the side of the transformer. Next connect the small, round DC connector of the transformer cord directly to the battery. The charging port is located on the bottom of the TTL400/TTL600 battery.

Once you connect the transformer to the battery a small indicator light in the transformer may illuminate. This simply means there is still some energy in the battery. Now you can connect the entire setup to a wall receptacle using the household connection. The indicator light on the transformer will turn red to indicate the unit is charging. When charging is complete the indicator light will turn green. The charging time for a depleted battery is approximately 5 hours.

Note: lithium-ion batteries can lose some of their charge over time. If you have charged your battery but not used it for a long amount of time (many weeks or months) it may need to be recharged to return to full capacity.

OPERATIONAL NOTES

1. This manual covers the modes and functions which are generally accessible directly from the light's controls. When using an Unplugged TTL transmitter and compatible camera you will be able to access additional controls of the light. In these cases, the light's LCD panel may display information and settings not covered in this manual, since they can only be accessed and controlled by the TTL transmitter. For example: FP mode, when accessed by the TTL transmitter, will display an FP screen on the light.
2. Unplugged TTL monolights have significantly more power than a typical flash/speedlight, even when the light is set to its lowest output power setting (1/128). You may find some photos become overexposed in TTL mode when the light is too close to your subject (especially when using the reflector without diffuser). This may be corrected by changing your camera's ISO setting from auto to a low, manual-set ISO such as ISO 100 or ISO 200.
Note: the use of a light modifier, such as a softbox, may reduce the light's output and allow you to work at closer distances to your subject.
3. Some features of the light which are controlled by an Unplugged TTL transmitter may need to be set from the camera's controls rather than the transmitter's buttons. For example: Rear Curtain Sync. on a Nikon camera is accessed through the camera's controls. Be sure to refer to your camera's instruction manual.
4. Unplugged monolights use an incredibly high quality hyman-style flash tube. The color temperature is daylight balanced and the CRI is extremely high (96+). Under normal use a flash tube will last for a very long time (many thousands of flashes). However, the flash tube is also delicate and can be damaged if the light is dropped or if an object breaks the tube. It is replaceable. See your local ProMaster dealer to purchase a replacement that is specific to your light. When changing the tube be extra careful if the old tube is damaged to avoid cuts from the glass. Begin by disconnecting the light from power by removing the battery or AC adapter. Next, unwind the silver ground wire from the lower part of the tube. The jaws of the small clamp will release the tube once the ground wire is unwound. Now grasp the tube and pull it straight out of the light. It should not take much force. Reinstall your new flash tube in the reverse order.
5. Your Unplugged TTL light is firmware upgradeable. A USB micro-B (5 pin) communication socket is located on the back of the light. You can refer to: www.promaster.com/firmware to find the latest updates.
6. The 10 Watt LED modeling light puts a continuous drain on the battery when it is turned ON. Be advised the use of the LED modeling light will reduce the maximum number of flashes the TTL light can produce on a battery charge.

OPERATING THE UNPLUGGED TTL LIGHT (CONT'D)

Now use the Group Button (8) to set the light's group to A, B, or C. Each time you press the Group Button (8) the group letter will change. Your TTL transmitter can control the Unplugged TTL lights by each of their group settings.

To use the modeling light, press the Modeling Light ON/OFF Button (7) once to turn it on and once again to turn it off. While the modeling light is turned on you can adjust its output intensity by turning the Main Dial (5) back and forth. The modeling light can also be controlled by the TTL transmitter. Any changes made to the modeling light from the TTL transmitter will override the settings you have input directly on the light's control panel

To adjust the audible alarm press and hold the Audible Alarm Button (7) for approximately 2 seconds and watch as the musical note icon appears or disappears on the left side of the LCD panel (11). When the icon is shown and the light has its audible alarm ON, a beep will occur each time the light has recycled and is ready to fire again. When the musical note icon is not shown, the light will operate in silent mode.

All other advanced functions can be accessed and controlled from the TTL transmitter.

CONNECTING THE LIGHT TO A STAND / USING THE LIGHT STAND MOUNT

The TTL400 & TTL600 lights use an excellent quality tilting mount for connection to a light stand or other type of grip item using a common 5/8" male connector. Loosen the Light Stand Attachment Knob (14) so the set screw inside of the mount is not protruding. Now push and hold the Light Stand Attachment Button (15) while you slide the light's mount onto the stand. Release the button and then tighten the attachment knob for a secure fit.

To adjust the angle of the light, turn the Tilt Control Knob (13) counterclockwise and adjust the mount. Tighten the knob securely before letting go of the light.

Note: the Tilt Control Knob (13) can rest in any phase position you wish. Pull out on the knob and turn it to change its resting position.

The light's mount also includes an Umbrella Slot with locking knob (18). You can slide the shaft of a photographic umbrella into the slot and use the locking knob to hold it in place.

Note: if you use an umbrella with a reflector attached you must first remove the front snap-in diffuser and be sure the umbrella cutout in the reflector is facing down. Guide the umbrella's shaft through the oval hole in the reflector and then into the Umbrella Slot (18).

TURNING THE LIGHT ON AND OFF

Begin by locating the Main Power Switch (1) on the underside of the light. Slide it to the ON position. Now press and hold the Secondary Power Switch (2) for approximately 2 seconds until the light turns on and the LCD Panel (11) and control buttons illuminate.

To turn the light off press and hold the Secondary Power Switch (2) for approximately 2 seconds until the LCD panel and control buttons turn off. Next slide the Main Power Switch (1) to the OFF position.

OPERATING THE UNPLUGGED TTL LIGHT

There are 3 ways to 'connect' to your light, meaning to fire and operate it: Sync, Socket, Optical Slave, and TTL transmitter.

Operation by Sync. Socket:

Locate the Sync. Socket (19) near the back of the light. It is a common 3.5mm port which can be used in conjunction with an appropriate PC connection cord. Using the Sync. Socket (19) and proper cord, connect the light to a camera or triggering system.

OPERATING THE UNPLUGGED TTL LIGHT (CONT'D)

To activate the Sync. Socket press the Menu Button (9) until an icon showing 'PC' appears in the top, left corner of the LCD Panel (11). Each time you press the Menu Button (9) once, the light will change its mode among: Optical Slave mode (eye icon), PC Sync. Mode (PC icon), and TTL mode (radio sensor icon).

To change the light's output, press the Manual Output Control Button (8) once to highlight the output control scale on the LCD Panel (11). Now use the Main Dial (5) to adjust the light output up or down across the scale from 1/128 to 1 (full power). Press the Manual Output Control Button (8) once more to save the setting.

To use the modeling light, press the Modeling Light ON/OFF Button (7) once to turn it on and once again to turn it off. While the modeling light is turned on you can adjust its output intensity by turning the Main Dial (5) back and forth.

Note: if you decide to change the light's output by pressing the Manual Output Control Button (8) while the modeling light is turned on, you will not be able to control the modeling light's intensity until you exit the output control mode.

To use MULTI mode press the Multi Flash Button (4) once and notice the word 'MULTI' appear in the top, right corner of the LCD Screen (11). While in MULTI mode you can press the Ti/Hz Button (3) to toggle between the number of times the light will flash (times), and the frequency (hertz). After using the Ti/Hz Button (3) to highlight one of these numbers, use the Main Dial (5) to adjust it to the number you wish to enter. Then press in on the Main Dial (5) to escape and save the setting. You can also press the Manual Output Control Button (8) while in MULTI mode to adjust the output power of each flash in the strobe sequence using the Main Dial (5).

To adjust the audible alarm press and hold the Audible Alarm Button (7) for approximately 2 seconds and watch as the musical note icon appears or disappears on the left side of the LCD panel (11). When the icon is shown and the light has its audible alarm ON, a beep will occur each time the light has recycled and is ready to fire again. When the musical note icon is not shown, the light will operate in silent mode.

Operation by Optical Slave:

Notice the Optical Slave Sensor (10) on the top of your light. This slave can fire the light in-sync. with another flash from a different photographic light (speedlight or strobe).

Note: while in optical slave mode you may only adjust the light's output flash power and modeling light intensity. No other functions are available in Optical Slave mode.

OPERATING THE UNPLUGGED TTL LIGHT (CONT'D)

To activate the Optical Slave, press the Menu Button (9) until an icon of an eye appears in the top, left corner of the LCD Panel (11). Each time you press the Menu Button (9) once, the light will change its mode among: Optical Slave mode (eye icon), PC Sync. Mode (PC icon), and TTL mode (radio sensor icon).

To change the light's output, press the Manual Output Control Button (8) once to highlight the output control scale on the LCD Panel (11). Now use the Main Dial (5) to adjust the light output up or down across the scale from 1/128 to 1 (full power). Press the Manual Output Control Button (8) once more to save the setting.

To use the modeling light, press the Modeling Light ON/OFF Button (7) once to turn it on and once again to turn it off. While the modeling light is turned on you can adjust its output intensity by turning the Main Dial (5) back and forth.

Note: if you decide to change the light's output by pressing the Manual Output Control Button (8) while the modeling light is turned on, you will not be able to control the modeling light's intensity until you exit the output control mode.

To adjust the audible alarm press and hold the Audible Alarm Button (7) for approximately 2 seconds and watch as the musical note icon appears or disappears on the left side of the LCD panel (11). When the icon is shown and the light has its audible alarm ON, a beep will occur each time the light has recycled and is ready to fire again. When the musical note icon is not shown, the light will operate in silent mode.

Operation by TTL Transmitter:

Please refer to your Unplugged TTL Transmitter manual for its proper operation along with your camera. Also use your camera's manual to understand its flash modes and capabilities.

To activate TTL Mode press the Menu Button (9) until the TTL mode showing a radio sensor icon appears in the top, left corner of the LCD Panel (11). Each time you press the Menu Button (9) once, the light will change its mode among: Optical Slave mode (eye icon), PC Sync. Mode (PC icon), and TTL mode (radio sensor icon). You will also see 'TTL' appear in the top right corner of the LCD panel.

To synchronize the TTL light and TTL transmitter begin by pressing the Channel / ID Button (3). Press it once to highlight the Channel setting (CH shown on the LCD Panel). Press it twice to highlight the ID setting (ID shown on the LCD Panel). A third press exits these settings. Use the Main Dial (5) to adjust the channel from 01 to 15 or the ID from 00 to 99. Press in on the Main Dial (5) to save and exit the setting. Your TTL transmitter must be set to the same channel and ID to control and fire the light.