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.

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NIKON UNPLUGGED
[TTL Transmitter]

Thank you for your purchase of this Unplugged TTL Transmitter. It is compatible with Unplugged TTL lights and your Nikon camera. Some of the TTL light & transmitter features are dependent on your specific camera model's controls and abilities. And some features can only be controlled from your camera directly. Refer to your camera's instruction manual while learning to use this TTL Transmitter.

PARTS IDENTIFICATION

1. Group A Mode Button
2. Group B Mode Button
3. Group C Mode Button
4. Modeling Light ON/OFF Button
5. Audible Alarm Button
6. Channel Button / Left Arrow Button
7. AF ON/OFF Button / Right Arrow Button
8. ID Button / Return Button / RPT Button
9. Group A Compensation Button /
   RPT Times Button
10. Group B Compensation Button /
    RPT Hz Button
11. Group C Compensation Button /
    RPT Power Button
12. Modeling Light Adjustment Button
13. Power Button / Test Button
14. Power / Signal Indicator Light
15. Locking Wheel
16. Battery Door
17. AF Illuminator
18. USB Firmware Upgrade Port
19. Control Lock Switch

SPECIFICATIONS

Model	6859
Power Source	2 x AA 1.5V alkaline batteries
Operating Range	300' / 100 m
Max Sync. Speed	1/8,000s
Weight	3 ¼ oz / 92 g
Dimensions	4 ¼" x 2 ¾" x 1 ½" / 108mm x 70mm x 38mm

PRECAUTIONS

1. Do not disassemble, open, or repair this transmitter by yourself.

2. This product is not water-resistant. Keep it away from rain, snow, and high humidity areas.

3. Always turn the transmitter OFF before changing the batteries.

4. Avoid corrosive or flammable substances when cleaning this transmitter.

5. Do not touch the transmitter with wet hands.

ADVANCED MODES OF OPERATION (CONT'D)

FP Mode
This mode gives you direct control over the light's flash duration within a range of 1 / 2,000 and 1 / 20,000 seconds. Once you enter FP mode for a particular group, press the appropriate group compensation button (9), (10), or (11) to enter an adjustment. Then use the Left Arrow Button (6) and Right Arrow Button (7) to change the flash duration. When finished, press the same group compensation button or the Return Button (8) once to save your change and exit the adjustment mode for FP.

Note: flash duration is NOT the same as high speed sync. Each of these two functions (FP and HSS) have a different purpose. Unplugged TTL lights are HSS compatible up to a camera shutter speed of 1/8,000 second and this function is generally accessed by an HSS compatible Nikon camera. Refer to your camera's user manual for more information.

RPT Mode
RPT mode creates a stroboscopic effect in which you can set the number of times the light will fire, the frequency (in hertz) and the power output.

To enter RPT mode, press and hold the RPT Button (8) for approximately 2 seconds until the LCD screen of the transmitter changes to RPT mode. You will see the RPT icon appear at the top of the screen.

Make adjustments in RPT mode by pressing the RPT Times Button (9) to enter the number of flashes, pressing the RPT Hz button (10) to enter the frequency, or by pressing the RPT Power Button (11) to change the output power. After entering each of these adjustments use the Left Arrow Button (6) and Right Arrow Button (7) to adjust the number and then press the Return Button (8) to save and exit the adjustment.

Finally, you need to decide which of the groups of lights will fire in RPT mode using the settings you have entered. Press any of the 3 group mode buttons (1), (2), or (3) to turn that group ON or OFF in RPT mode. Each press will change the group between ON and OFF.

To exit RPT mode, press and hold the RPT Button (8) for approximately 2 seconds until the LCD screen returns to its normal modes position.

Note: when using RPT mode you can choose which of the 3 groups (A,B, and/or C) will fire with a stroboscopic effect by turning each of the groups ON or OFF in the RPT screen. However, you cannot use a mode other than RPT for any of the groups while RPT is active.

INITIAL SETUP

Installing the Batteries
Your Unplugged TTL Transmitter is powered by two 1.5V AA Alkaline batteries. Locate the Battery Door (16) and slide it up and out of the transmitter. Install both AA batteries according to the + and – symbols in the compartment. Replace the Battery Door (16).

Connecting to a Camera
Loosen the Locking Wheel (15) on the transmitter by turning it to the right while holding the transmitter so the LCD screen is facing you. Slide the TTL Transmitter onto your camera's hot shoe so the LCD screen is oriented at the back of the camera and the red AF Illuminator (17) is facing the front of the camera (same direction as your lens). Tighten the Locking Wheel (15) so the transmitter is held firmly to your camera.

Powering up the TTL Transmitter
With the TTL transmitter connected to your camera, turn on the camera and then press and hold the transmitter's Power Button (13) for approximately 2 seconds, until the Power / Signal Indicator Light (14) illuminates. The Power / Signal Indicator Light (14) will glow red to indicate the transmitter has power but is not communicating with a camera. It will glow green to indicate the transmitter both has power and is communicating with a compatible camera.

Setting the Channel and ID
Be sure your Unplugged TTL light is powered ON and set to TTL mode.

Press the Channel Button (6) once to enter channel select mode. Now press the Left Arrow Button (6) or Right Arrow Button (7) to change the channel number between 1 and 15. You must select the same channel your TTL light is set to in order to operate it. Once you have selected the channel number press the Return Button (8) to exit channel select mode.

Press the ID Button (8) to enter ID select mode. Use the Left Arrow Button (6) or Right Arrow Button (7) to change the ID number between 1 and 99. The Left Arrow Button (6) will increase the ID number by 10 per press. The Right Arrow Button (7) will increase the ID number by 1 per press. You must select the same ID your TTL light is set to in order to operate it. Once you have selected the ID number press the Return Button (8) to exit ID select mode.

Note: refer to your Unplugged TTL light instruction manual for more details about how to set its channel and ID.

BASIC TTL TRANSMITTER OPERATION

Using Groups (A,B, and C)
Using groups gives you control over various lights in a multi-light setup. For example, you may wish to have a main light at full power and a fill light at ¼ power. You can achieve this by setting your main light to one group, your fill light to a different group and then dialing-in different power settings for each group on your TTL transmitter. Or, you can set all your lights to just one group and any changes you make will affect all the lights equally.

3 Groups are available to you labeled as A, B, and C. An Unplugged TTL light can be set to one of these 3 groups at a time. Refer to your TTL light instructions for more information about setting its group.

On the left side of the TTL transmitter's LCD display notice the three groups listed in a row. As you change various modes and functions on the TTL transmitter pay attention to which group you are affecting. The changes you make to a particular group on the transmitter will create the desired outcome with any and all Unplugged TTL lights set to this group. You will learn more about the specific controls for these groups in the upcoming sections of this manual as you explore the various modes.

Firing a Test Flash
Quickly press the Test Button (13) to fire a test flash from an Unplugged light using the same Channel, ID, and group. This will verify the light is sync'd to the TTL transmitter.

Adjusting the Audible Alarm
To adjust the audible alarm, press the Audible Alarm Button (5). Each time you press this button the transmitter will toggle between ON and OFF for the alarm. You will see an icon of a musical note in the lower left corner of the LCD panel with the word ON or OFF next to it as you do this. When the alarm is turned ON, a beep will occur each time the light has recycled and is ready to fire again. When the alarm is OFF the light will operate in silent mode.

Adjusting the AF Illuminator Function
To adjust the AF illuminator, press the AF ON/OFF Button (7). Each time you press this button the transmitter will toggle between ON and OFF for the AF Illuminator. You will see an icon that reads 'AF' with the word ON or OFF next to it directly above the AF ON/OFF Button (7) as you do this. When the AF Illuminator is set to ON, a red focus assist light emitting from the AF Illuminator (17) will aid your camera in auto focusing in dim lighting.

Note: the ability to use the AF Illuminator is dependent on your camera.

Using the Modeling Light
Press the Modeling Light ON/OFF Button (4) to turn the TTL light's modeling light ON or OFF. When it is ON you can adjust its intensity by pressing the Modeling Light Adjustment Button (12) once and then using the Left Arrow Button (6) and Right Arrow Button (7) to change the intensity.

Note: use of the modeling light cannot be done by group. It will be ON or OFF for all Unplugged TTL lights set to the same channel and ID as the transmitter.

BASIC TTL TRANSMITTER OPERATION (CONT'D)

Using the Control Lock Switch
When the Control Lock Switch (19) is turned ON, it will prevent accidental changes to your settings by disabling all of the buttons on the transmitter except for one. The Power Button / Test Button (13) will still function as normal when the Control Lock Switch is used. So you can still test fire your light(s) and turn the transmitter ON or OFF.

ADVANCED MODES OF OPERATION

Changing Modes
You can change the mode for any group by pressing the appropriate group mode button. There are 3 of them: Group A Mode Button (1), Group B Mode Button (2), and Group C Mode Button (3). Each time you press one of these buttons once, the mode for its particular group will change between: TTL mode, M manual mode, FP mode, and -- -- (group turned off). You can use a different mode for each of the 3 groups simultaneously or set them to the same mode.

TTL Mode
When a group is set to TTL mode it controls all Unplugged TTL lights in the same group as wireless TTL slaves to your camera's automatic flash exposure system.

You can adjust the exposure compensation in TTL mode by pressing one of the 3 compensation buttons: Group A Compensation Button (9), Group B Compensation Button (10), or Group C Compensation Button (11). After entering TTL exposure compensation mode for a particular group, use the Left Arrow (6) and Right Arrow (7) to adjust the amount of exposure compensation up or down in 1/3 EV amounts. When you have finished making your adjustments, press either the appropriate compensation button once more or press the Return Button (8) to save your setting and exit exposure compensation mode.

Manual Mode
This mode allows you to manually set the output power of any light in the selected group and bypass your camera's automatic TTL exposure system. A letter M will appear next the affected group(s) to indicated manual mode. You can adjust the light output power in this mode by pressing one of the 3 compensation buttons: Group A Compensation Button (9), Group B Compensation Button (10), or Group C Compensation Button (11). After entering the light output power mode for a group use the Left Arrow Button (6) and Right Arrow Button (7) to adjust the power between 1/128 and full power in 1/3 stop increments. Finally, press the appropriate compensation button or the Return Button (8) to save the power setting and exit the power compensation mode.