



PIXEL .INC

[Http:// www.pixelhk.com](http://www.pixelhk.com)

CE RoHS 10 ♻️

Made in China/中國製造

50202 V10.01



## Wireless Timer Remote Control

無線定時快門綫

# TW-282

Product Manual

使用手冊

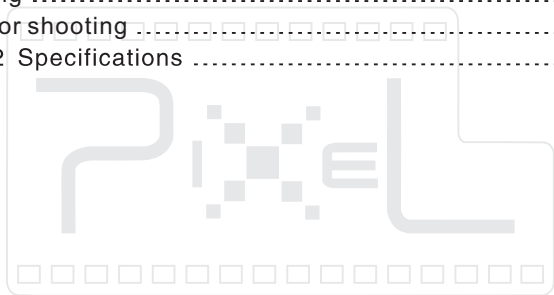
En

中文

## Contents

Overview .....	03
Cautions .....	04
TW-282 introduction .....	07
The name of each part .....	08
Prepare for install and use .....	11
Install and replace the battery .....	11
Fix the receiver(TW-282RX) .....	13
Turned on/off the power .....	14
Channel Setting .....	15
Open the background light of display .....	17
Receiver connected with the camera .....	18
Shooting control .....	19
Single shooting .....	19
Continuous shooting within one sec .....	20

[ BULB ] shooting .....	22
Delay shooting .....	23
Timing plan for shooting .....	26
PIXEL TW-282 Specifications .....	32



This manual is current update of 1st Sep, 2009. Please contact to PIXEL distributor for further information, if interesting of the combining usage with products released after this day.

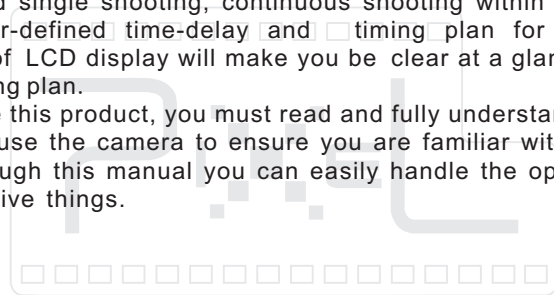
En

## Overview

### Thank you for purchasing high-performance PIXEL products

First of all, thank you for purchasing product of PIXEL TW-282. The shooting ways included single shooting, continuous shooting within one sec, [ BULB ] shooting, user-defined time-delay and timing plan for shooting. Low consumption of LCD display will make you be clear at a glance of the using status and using plan.

Before use this product, you must read and fully understand this manual, then learn to use the camera to ensure you are familiar with the operation properly. Through this manual you can easily handle the operation method and the attentive things.



En

## Cautions

- ⚠ The batteries should not install anti-polarity; Otherwise the batteries may leak corrosive liquids, heat or explosion.
- ⚠ Make sure the camera and receiver (TW-282RX) are powered off before install it.
- ⚠ When connected the remote cable with the device, do not pull the wires.
- ⚠ As this is an electronic product accessory; some of the environment causes may affect the working. However this is hardly ever to get this situation.
- ⚠ This product can't be strong vibration, or may lead to product failure.
- ⚠ For a long time non-use, please remove the battery to prevent leakage of corrosive liquids and damage the product.
- ⚠ Do not put it in high temperature, such as a closed car under direct sunlight, the control panel and other high-temperature areas.
- ⚠ Keep dry, don't use wet hand contact with the product, it must not be immersed in water or exposed to rain, and this may lead to not work properly.

En

## Cautions

- ⚠ Do not use flammable and explosive gases in violation of this warning may cause an explosion or fire.
- ⚠ Because this product include battery, regarding how to use battery, please operate it strictly according to related rules, otherwise it may cause explosion, fire or physical injury.
- ⚠ This device complies with Part 15 of the FCC Rules. Operation 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.
- ⚠ Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

En

## Cautions

- ⚠ NOTE: This equipment has been tested and found to comply with 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.

## TW-282 introduction

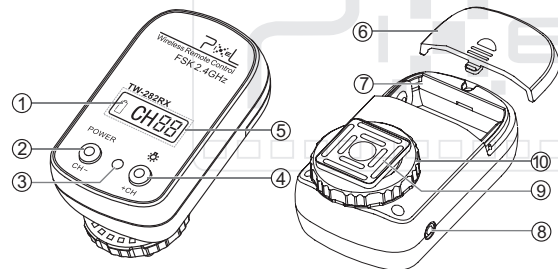
- Using the wireless remote control technology to achieve shutter's external socket with camera for remote control .
- FSK modulation used to improve the reliability and stability of the product, use the global free 2.4GHz wireless channel, 99 selectable channels and one universal channel.
- Operating distance range up to 80M or above.
- LCD display is showing channel, power, function mode, it's easy to understand and operate.
- Ultra-low power standby, transmitter (TW-282TX) uses 2pcs AAA batteries, which standby time over four years; the receiver (TW-282RX) uses 3V CR-2 lithium battery, which more than 400 hours of standby time.
- Transmitter external interface which can directly output signals, it can be connect with the shutter connect cable of camera for all function operation.
- Different shutter connect cable can be connect with different brand cameras.
- It can control multiple cameras simultaneously.
- The camera can be single shooting, continuous shooting within one sec, [ BULB ] shooting and user-defined delay and timing plan shooting.
- Set the parameters for timing shooting.

## The name of each part

Please check all included items after open the packing, if missing, please contact the dealer.

- |                                     |                                   |
|-------------------------------------|-----------------------------------|
| 1. Transmitter (TW-282TX) ----- 1pc | 2. Receiver (TW-282RX) ----- 1pc  |
| 3. 1.5V AAA battery ----- 2pcs      | 4. CR-2 Lithium battery ----- 1pc |
| 5. Shutter connect cable ----- 1pc  | 6. Manual(this manual) ----- 1pc  |

Here are the names of each part:

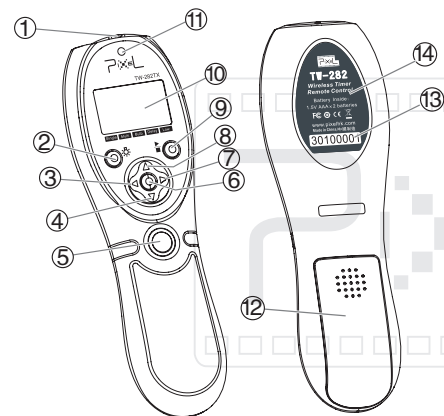


Receiver (TW-282RX)

- ① Low battery voltage icon
- ② Power button/channel reduce button
- ③ Power indicator
- ④ Background light button/channel increase button
- ⑤ Channel display screen
- ⑥ Battery hatch
- ⑦ Battery compartment
- ⑧ Output control signal interface
- ⑨ Hot shoe fixed mount
- ⑩ Hot shoe fixed nut

En

## The name of each part

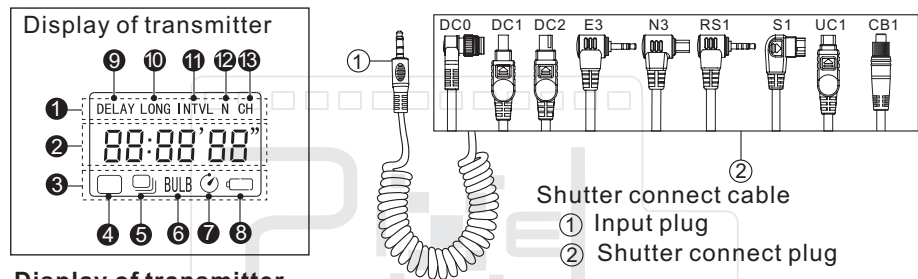


Transmitter(TW-282TX)

- ① Output control socket
- ② Background light button
- ③ Left move button
- ④ Decrement button
- ⑤ Release button
- ⑥ Set button
- ⑦ Right move button
- ⑧ Increment button
- ⑨ Timing plan start/stop button
- ⑩ Display
- ⑪ Shutter indicator
- ⑫ Battery hatch
- ⑬ Product back sticker
- ⑭ Item code

En

## The name of each part



### Display of transmitter

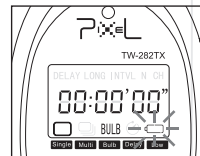
- |   |                             |
|---|-----------------------------|
| ① Timing plan function area               | ② Time display area         |
| ③ Function area                           | ④ Single shooting icon      |
| ⑤ Continuous shooting within one sec icon | ⑥ [BULB] shooting icon      |
| ⑦ Delay shooting icon                     | ⑧ Low battery voltage icon  |
| ⑨ The icon of delay time                  | ⑩ The icon of exposure time |
| ⑪ The icon of interval time               | ⑫ The icon of timing shots  |
| ⑬ The icon of channel                     |                             |

## Preparation for installation and use

Before use, you should read the user manual of your camera carefully and well understand the manipulation and functional setting. The function setting of camera may influence this item's efficiency control of the camera.

### Install and replace the battery

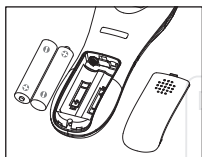
#### ◆ The transmitter(TW-282TX)



The low battery voltage icon [ ] will twinkle or the character become dim obvious when the power is not enough, that means the low battery voltage has already influence the normal work of the device, which needs to replace the battery in time. The transmitter uses 2pcs AAA batteries; Please follow the steps to replace the battery if needed.

1. Slide and open the battery hatch.

## Preparation for installation and use



2. Follow the signs of positive [+] and negative [-] in the battery compartment to install the battery correctly.

⚠ You should pay attention to the polarity of battery because of the wrong installation will make the device work abnormally, or even physical injury.

3. Close the battery hatch.

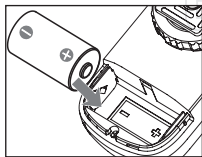
### ◆ The receiver(TW-282RX)



The low battery voltage icon [ ] will twinkle when the power is not enough, that means the low battery voltage has already influenced the normal work of the device, which needs to replace the battery in time. The receiver uses CR-2 lithium battery; Please follow the steps to replace the battery if needed.

1. Slide and open the battery hatch.

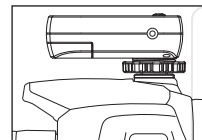
2. Follow the signs of positive [+] and negative [-] in the battery compartment to install the battery correctly.



## Preparation for installation and use

### ✎ Fix the receiver (TW-282RX)

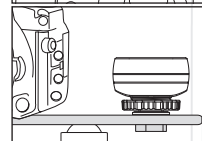
Receiver can be fixed on the top of camera, rack of camera accessory or tripod.



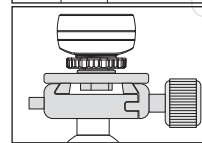
● Fix the receiver on the hot shoe of camera.

⚠ Lock hot shoe fixed nut tightly when you fix it.

⚠ Loosen hot shoe fixed nut when you remove the receiver. Do not forcibly pull it, in order to avoid damage to the receiver and camera.



● Fix the receiver on the rack of camera accessory.



● Fix the receiver on the tripod.

⚠ Make sure to fix the receiver firmly so that it will not slide.



## Preparation for installation and use

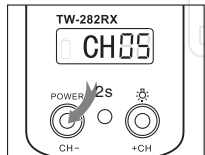
### Turned on/off the power

#### ◆ The transmitter(TW-282TX)



1. Press any button once, and turn on the power of transmitter.
2. Turn on the power, transmitter in single shooting state, set the timing plan and communication channel unchanged.
3. The display shows the single shooting icon and communication channel.
4. The transmitter without any operation (except timing plan or implementing [ BULB ] status) will shut down automatically after one minute.

#### ◆ The receiver(TW-282RX)



1. Press the power button[ POWER ]2s, turn on the receiver power, screen display communication channel.
2. After turn on the power, the set timing communication channel remain effectively.
3. The receiver does not turn off automatically. In the power-on state, press power button 2s and the receiver will be turned off.

## Preparation for installation and use

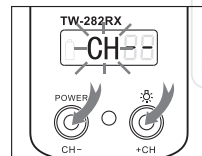
### Channel setting

#### ◆ Channel setting for transmitter(TW-282TX)



1. Press left move button[ ◀ ] or right move button[ ▶ ] will move the functional icon to the channel icon[ CH ].
2. Press the set button into the channel setting.
3. Thought pressing increment button[ ▲ ] or decrement button[ ▼ ] to adjust the channel number.

#### ◆ Channel setting for receiver(TW-282RX)



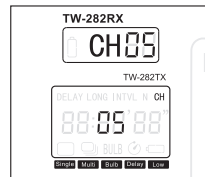
1. Turn the power on, the communication channel will be default[ -- ] or the last setting.
2. Press the button[ +CH ] and [ CH- ] at the same time to enter the channel settings, the [ CH ] icon on the LCD will blink .
3. Set the communication channel, press[ +CH ] plus one, press[ CH- ] minus one.
4. 10s no action exit and save your settings.

En

En

## Preparation for installation and use

### ◆ Channel model



1. When the transmitter's communication channel adjust to [ -- ] will effectively control all channels within the region of the receiver.
2. When the receiver's communication channel adjust to [ -- ], all transmitter in the effective reception area can control the receiver.
3. The transmitter and receiver's value of communication channels setting must be consistent. If inconsistent, the transmitter will not be effectively controlled the receiver.

En

## Preparation for installation and use

### ✎ Open the background light of display

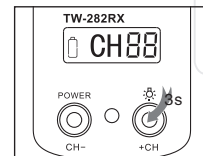
#### ◆ The transmitter(TW-282TX)



Press and hold the background light button for 3 seconds, the background light will be turned on.

- Open the background light and press the button twice each 6 seconds, the background light will keep lit.
- The background light will not be close by hand; it will turn off after 6 seconds automatically without any operation.

#### ◆ The receiver(TW-282RX)



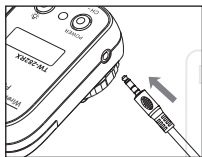
Press and hold the background light button for 3 seconds, the background light will be turned on.

- Open the background light of the receiver and press the button twice each 4 seconds, the background light will keep lit.
- The background light will not be close by hand; it will turn off after 4 seconds automatically without any operation.

En

## Preparation for installation and use

### Receiver connected with the camera



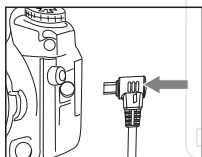
1. Make sure your receiver has been installed in place and to ensure that cameras and receivers are shut down.
2. First, insert the input plug of the shutter connect cable into the receiver's output control signal socket in place.

- The timer remote control will not be able to control the camera if the shutter connect cable didn't insert correctly.

3. Fix the camera on the tripod or other fixed frame. Open the protective cover of external shutter socket and put the shutter plug of shutter connect cable in place, then make sure it has been fixed firmly.

- For most of camera shutter socket, there is a mis-plug interface, please note insert direction so as to avoid damage to shutter socket.

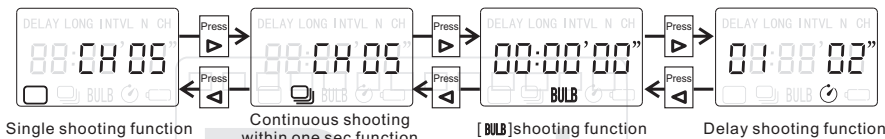
4. Turn on the receiver's power and then the camera's power.



En

## Shooting control

Sketch map for selecting function mode:



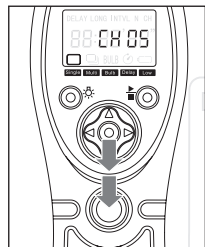
The instruction is under the premise that the receiver and camera have been connected tightly, and turned on the power of camera and receiver. The detail instruction of remote shooting will be showing as follow.

### Single shooting




1. In the power-on state, set the single shooting icon [□] by pressing the left move button [◀] or right move button [▶].
  - In the sleeping state, press any key to wake up transmitter to enter single shooting mode.
2. Half-press the release button and transmitter will send signal for focusing, the green indicator will lit on the transmitter and receiver, and the camera is in the focusing state until the release or full-press the button.

En

## Shooting control






3. Full-press the release button and transmitter will send signal of shooting. The red indicator will light for a while, the camera start shooting.

- Make sure to set the camera function to be [  ].
- When the camera function is set to be [  ], it may cause continuous shooting.
- When the camera function is set to be [ **BULB** ], the camera will shoot based on [ **BULB** ] mode, it may cause underexposure or overexposure.
- When the camera function is set to be [  ], the camera will execute delay shooting.

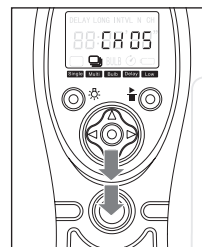
En

### Continuous shooting within one sec

1. In the power-on state, move the transmitter's activities icon to continuous shooting within one sec icon [  ] by pressing the left move button [  ] or right move button [  ].

- Continuous shooting within one sec second is the first patent function which issued by Pixel limited Enterprise, it'll support spacing continuous shooting within one sec and never change the single shooting mode.




## Shooting control



2. Half-press the release button and transmitter will send signal for focusing, the green indicator will lit on the transmitter and receiver, and the camera is in the focusing state until the release or full-press the button.

3. Full-press the release button, red indicators of the transmitter and receiver will be lit, keep fully press the button, the transmitter will send signal of shooting continuously, the indicators will blink red and green light in turn. The camera will start to shot, and the shooting speed will be one photo per sec.

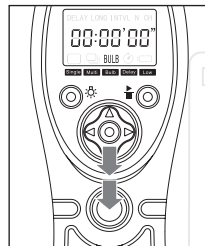
4. Release the release button, the transmitter stop sending signal for shooting and the camera will stop shooting.

- Make sure to set the camera function to be [  ].
- When the camera function is set to be [  ], it may cause continuous shooting.
- When the camera function is set to be [ **BULB** ], the camera will shoot based on [ **BULB** ] function, it may cause underexposure or overexposure.
- When the camera function is set to be [  ], the camera will execute delay shooting.

En

## Shooting control

### [ BULB ] shooting



1. In the power-on state, move the transmitter's activities icon to [ BULB ] shooting icon [ BULB ] by pressing the left move button [ ◀ ] or right move button [ ▶ ].
2. Half-press the release button and transmitter will send signal for focusing, the green indicator will lit on the transmitter and receiver, and the camera is in the focusing state until the release or full-press the button.
3. Full-press the release button, transmitter will send [ BULB ] signal. The red indicator of transmitter starts flashing and start timing, the indicator of receiver will keep lighting. The transmitter continuous output shooting signal. Camera enters into exposure shooting continuously.

4. Press the release button again, transmitter will stop output shooting signals, camera stop exposure shooting.
  - The differences between [ ] mode and [ BULB ] mode are as follow: [ ] function is the release button is pressed fully and keep on, camera starts shooting until the release button is released. While [ BULB ] function is the camera will start shooting when the release button is pressed fully until press it again, the shooting will stop.

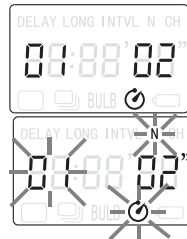
## Shooting control

- Make sure to set the camera function to be [ BULB ].
- When the camera function is set to be [ □ ], the camera only shoot once but not [ BULB ] shooting.
- When the camera function is set to be [ ☐ ], the camera will be continuous shooting.
- When the camera function is set to be [ ⌚ ], the camera will be delay shooting once.

### Delay shooting

The delay shooting function of TW-282 can user-defined the delay time and shots.

#### ◆ Delay shooting setting



1. In the power-on state, move the transmitter's activities icon to delay shooting icon [ ⌚ ] by pressing the left move button [ ◀ ] or right move button [ ▶ ]. Press the set button entering the delay setting for adjusts the shooting numbers. The delay shooting icon [ ⌚ ], the numbers of shooting icon [ N ], number of shooting [ ! ] will blink at the same time.
2. Press button [ Δ ] settings shot number can be increased,

## Shooting control



press button [ ▽ ], settings shot number can be reduced. It can be set between 1 to 99 sheets .

3. Press button [ ▶ ] enter into the delay setting of delay shooting. the delay shooting icon [ ☉ ], delay shooting time icon [ DELAY ], delay shooting time value [ 02 ] will blink at the same time.

4. Press the button [ ▲ ], set the delay time increased, press button [ ▽ ], set the delay time reduced. It can be set between 1 to 59 seconds.

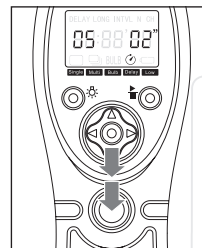
5. After set up the new parameters, press the set button, save and exit settings.

- When enter to the delay shooting set, the transmitter will save the previous setting.
- By pressing the left button [ ◀ ] or right button [ ▶ ], convert shooting numbers and delay time settings.
- Gently press button [ ▲ ] once to set numerical increased, hold it on, set the value rapidly increased; Press the button [ ▽ ] once to set the numerical reduced, hold on to set the values rapidly reduced.

### ◆ Operate the delay shooting

1. Press the left button [ ◀ ] or right button [ ▶ ], move the transmitter's activity icon to the delay shooting icon [ ☉ ].

## Shooting control



2. Half-press the release button and transmitter will send signal for focusing, the green indicator will lit on the transmitter and receiver, and the camera is in the focusing state until the release or full-press the button.

3. Full-press the release button, transmitter will send all the delay shooting information to receiver, the transmitter starts to delay countdown, and red indicator blink quickly and enter to the delay shooting mode.

4. When countdown is completed, receiver will follow the setting shots output a signal per second to control shooting.

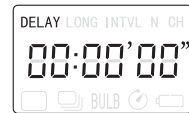
- Make sure to set the camera function to be [ □ ].
- When the camera function is set to be [ ☉ ], it will start continuous shooting.
- When the camera function is set to be [ BULB ], the camera will shoot based on [ BULB ] function, it may cause underexposure or overexposure.
- When the camera function is set to be [ ☉ ], the camera will perform one or more delay shooting.
- When the camera lens focus function is set to be [ M ], the camera will not execute focusing action if half-press the release button of the transmitter.

## Shooting control

- When the camera lens focus function is set to be [ A ], even receiving the shooting signal the camera will not shoot at the moment as most of camera don't seize focus.

### Timing plan for shooting

#### ◆ Delay time setting



- In the power-on state, move the functional activities icon to the delay timing program icon [ DELAY ] by pressing the left move button [ ◀ ] or right move button [ ▶ ].
- Press the set button, enter the delay time for 'second bit' setting.

- By pressing button [ ◀ ] or [ ▶ ], enter into the setting for "minutes" and "hours", as the sketch map.

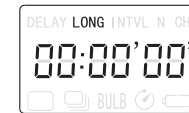


## Shooting control

- Gently press button [ Δ ] once to set numerical increased, hold it on, set the value rapidly increased; Press the button [ ▽ ] once to set the numerical reduced, hold on to set the values rapidly reduced.

- Press the set button, save and exit settings.

#### ◆ Exposure time setting



- Press left move button [ ◀ ] or right move button [ ▶ ], move the transmitter's activities icon to the exposure timing program icon [ LONG ].
- Press the set button, enter the delay time for 'second bit' setting.

- By pressing button [ ◀ ] or [ ▶ ], enter into the setting for "minutes" and "hours", as the sketch map.

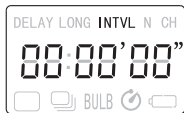


## Shooting control

- Gently press button [  $\Delta$  ] once to set numerical increased, hold it on, set the value rapidly increased; Press the button [  $\nabla$  ] once to set the numerical reduced, hold on to set the values rapidly reduced.

4. Press the set button, save and exit settings.

### ◆ Interval time setting



1. Press left move button [  $\triangleleft$  ] or right move button [  $\triangleright$  ], move the transmitter's activities icon to the interval timing program icon [ INTVL ].

2. Press the set button, enter the interval time for "second bit" setting.

3. By pressing button [  $\triangleleft$  ] or [  $\triangleright$  ], enter into the setting for "minutes" and "hours", as the sketch map.



## Shooting control

- Gently press button [  $\Delta$  ] once to set numerical increased, hold it on, set the value rapidly increased; Press the button [  $\nabla$  ] once to set the numerical reduced, hold on to set the values rapidly reduced.

4. Press the set button, save and exit settings.

### ◆ The shot number setting



1. Press left move button [  $\triangleleft$  ] or right move button [  $\triangleright$  ], move the transmitter's activities icon to the icon of timing shots [ N ].

2. Press the set button, entering to set the number plan of shot. Press button [  $\Delta$  ] setting shot number can be increased, press button [  $\nabla$  ], settings shot number can be decreased. It can be set between 1 to 99 sheets.

3. By pressing button [  $\triangleleft$  ] or [  $\triangleright$  ], enter into the setting for "delay time" and "exposure time", "interval time" as the shown picture.



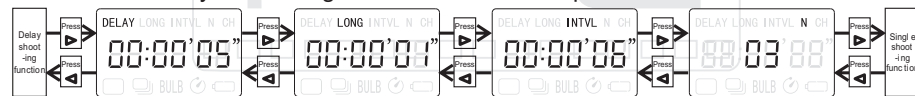
## Shooting control



4. Press the set button, save and exit settings.

### ◆ Search the timing plan

1. Press left move button[◀] or right move button[▶], move transmitter's activities icon to timing plan icon which can check the related timing project.
2. When check the related projects, if need adjust the parameters, only press the set button to enter the relevant project settings, press the set button again to exit and save your setting. Move the icons sequence showed as below.



### ◆ Execute timing plan

1. Press the left move button[◀] or right move button[▶], move the activities icon to any icon among the timing plan shooting area.

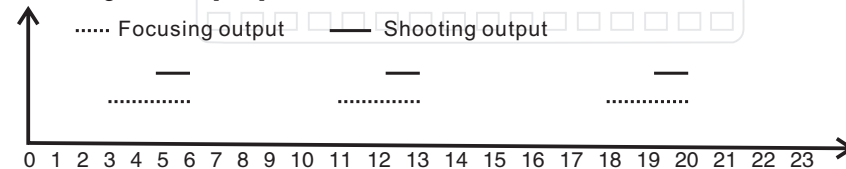
## Shooting control



2. Press the timing start/stop button[▶], the transmitter will sent all information to the receiver. The timing plan will run in the receiver, and output control signals to camera.

- Press the timing plan start/stop button[▶] of the transmitter before the timing plan executing completely, the transmitter and receiver will stop regularly scheduled executing.
- The transmitter indicator and LCD will run the timing plans, but does not send control commands to the receiver, it's only offer a reference to understand the operation status of the receiver.

The following examples illustrate the timing plan running: delay time[DELAY] = 5 seconds, exposure time[LONG] = 1 second, shooting interval[INTVL] = 6 seconds, shooting number[ N ] = 3.



## PIXEL TW-282 Specification

Type : FSK 2.4 GHz wireless control system

Transmission distance: 80 meters or above

Channel: 99 channels, as well as ALL

Standby time: Transmitter : more than 4 years (using two 1.5V AAA batteries)

Receiver : 400 hours (using CR-2 lithium battery)

Dimensions(W × H × D): Transmitter: 149mm × 49.5mm × 24mm

Receiver: 63mm × 38mm × 31 mm

Weight(with battery): Transmitter: 70.5 g

Receiver: 39.5 g

Now you can start to use unique high-performance PIXEL product TW-282. If you have any questions, you can contact the local distributor. Or visit the website <http://www.pixelhk.com>.

En