Wireless Timer Remote Control

无线定时快门线
TW-282

Product Manual
使用手册

En

中文

Contents

En

This manual is current update of 1st Jan, 2011. Please contact to PIXEL distributor for further information, if interesting of the combining usage with products released after this day.
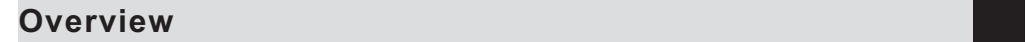
Overview

✍ Thank you for purchasing high-performance PIXEL products

First of all, thank you for purchasing product of Wireless Timer Remote Control 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.
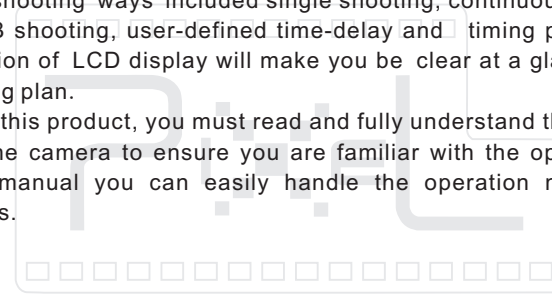
Cautions

⚠ 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.

⚠ 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.

TW-282 introduction

● Using the wireless remote control technology to achieve shutter's external socket with camera for remote control .

● FSK 2.4GHz wireless controls system, which more reliability and stability, 15 channels available.

● 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.

● 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. Shutter connect cable ---------- 1pc
4. Manual(this manual) ----------- 1pc

Here are the names of each part:
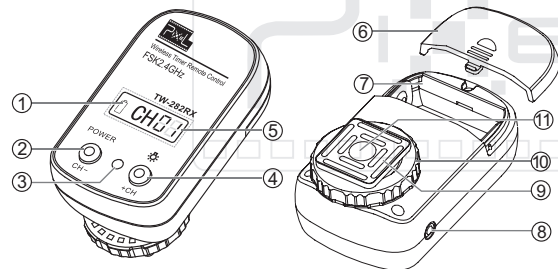
① Low battery voltage icon
② Power button/channel reduce button
③ Indicator light
④ Background light button/ channel increase button
⑤ Channel display screen
⑥ Battery hatch
⑦ Battery compartment
⑧ Output control signal interface
⑨ Hot shoe fixed mount
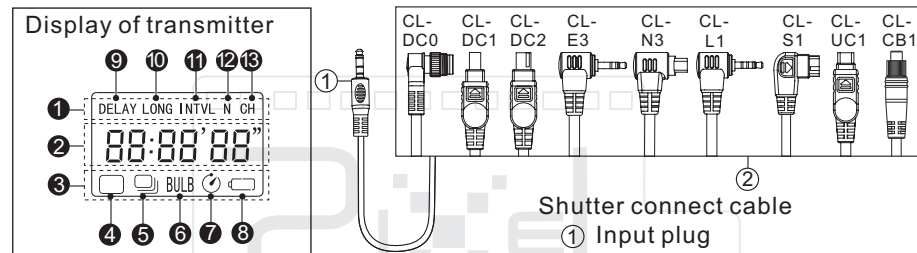⑩ Hot shoe fixed nut
⑪ Quick release plate holding nut
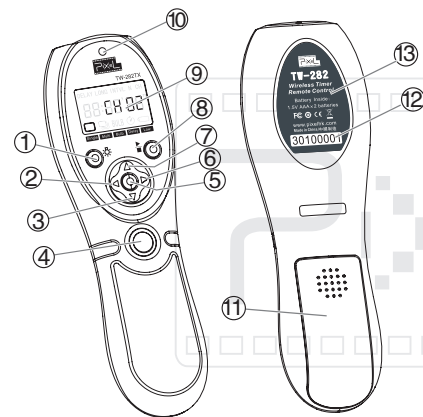
Receiver (TW-282RX)

① Background light button
② Left move button
③ Decrement button
④ Release button
⑤ Setting/Enter button
⑥ Right move button
⑦ Increment button
⑧ Timing plan start/stop button
⑨ Display
⑩ Indicator light
⑪ Battery hatch
⑫ Product back sticker
⑬ Item code

Transmitter(TW-282TX)

The name of each part

Display of transmitter

DELAY LONG INTVL N CH

❶
❷ 88:88'88"
❸ BULB ⏱ ▭

❾ ❿ ⓫ ⓬ ⓭

❹ ❺ ❻ ❼ ❽

① Input plug

CL-DC0 CL-DC1 CL-DC2 CL-E3 CL-N3 CL-L1 CL-S1 CL-UC1 CL-CB1

② Shutter connect plug

Shutter connect cable
① Input plug
② Shutter connect plug

Display of transmitter

❶ Timing plan function area
❸ Function area
❺ Continuous shooting within one sec icon
❼ Delay shooting icon
❾ The icon of delay time
⓫ The icon of interval time
⓭ The icon of channel

❷ Time display area
❹ Single shooting icon
❻ BULB shooting icon
❽ Low battery voltage icon
❿ The icon of exposure time
⓬ The icon of timing shots

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.

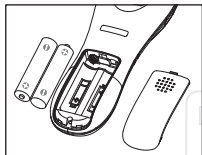### ✒ Install and replace the battery

◈ 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.

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.
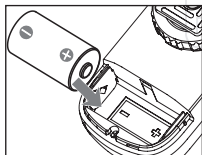
◈ The receiver(TW–282RX)

TW-282RX

CH02

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.

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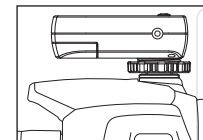
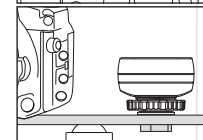3. Close the battery hatch.

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☑ Fix the receiver (TW–282RX)

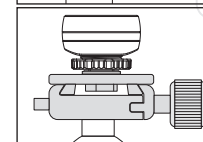Receiver can be fixed on the top of camera, rack of camera accessory or tripod.

● 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.

1. Fix the Receiver on the quick release plate through bottom nut.

2. Attach the quick release plate on the tripod.

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

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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. The transmitter stays in the single shooting mode when you turn on the power; timing plan and channel setting will not be changed.
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)
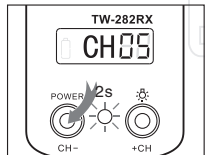
1. Hold the power button for 2sec to turn on the [POWER] Green LED light will be flash every 2sec and the screen displays communication channel.
2. After turn on the power, the set timing communication channel remain effectively.
3. The receiver does not turn off automatically. In the power-on state, press power button 2s and the receiver will be turned off.

Preparation for installation and use

✎ Channel setting

◈ Channel setting for transmitter(TW−282TX)
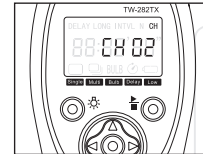
1. Press left move button[◁]or right move button[▷]will move the functional icon to the channel icon[CH]. Press
2. Setting/Enter button to change the channel, you will see the channel number is flashing.
3. Thought pressing increment button[△]or decrement button[▽] to adjust the channel number.
4. Press Setting/Enter button again to save the present channel.

◈ Channel setting for receiver(TW−282RX)
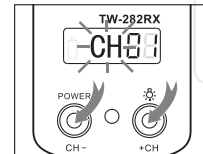
1. Turn on the power; the channel is default as the last time setting.
2. Press [+CH] and [CH-] button enter to channel setting, the channel icon [CH] on the screen will be flashing.
3. [+CH] is increase the numbe, [CH-] is reduces the number.
4. Press [+CH] and [CH-] button at same time, or no-action for 10 second, can save and exit.

＊ The channel of transmitter and receiver should be the same for shooting effectively.

Preparation for installation and use
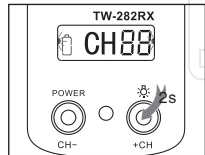
✎ Open the background light of display

◈ The transmitter(TW−282TX)

Press and hold the background light button for 2 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 2 seconds, the background light will be turned on.

- Open the background light of the receiver 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.

Preparation for installation and use

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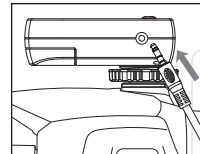
1. Make sure your receiver has been installed in place and to ensure that cameras and receivers are shut down.
2. First, insert the input plug of the shutter connect cable into the receiver's output control signal socket in place.

- The timer remote control will not be able to control the camera if the shutter connect cable didn't insert correctly.
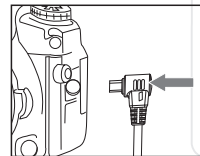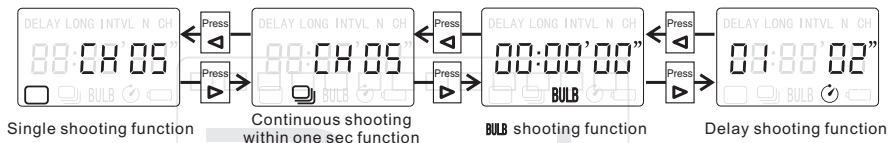
3. Fix the camera on the tripod or other fixed frame. Open the protective cover of external shutter socket and put the shutter plug of shutter connect cable in place, then make sure it has been fixed firmly.

- 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.

Sketch map for selecting function mode:

Single shooting function | Continuous shooting within one sec function | BULB shooting function | Delay shooting function

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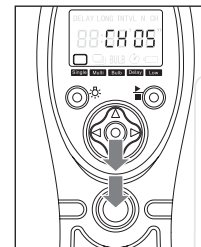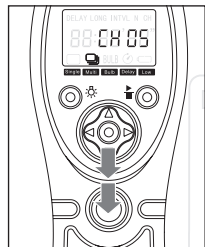
3. Full-press the release button and transmitter will send signal of shooting. The red indicator will light for a while, the camera start shooting.

● Make sure to set the camera function to be [▢].
● When the camera function is set to be[▣], it may cause continuous shooting.
● It will be shooting every sec if camera is set as [BULB], it may cause the problem of under or over exposure..
● When the camera function is set to be [⊘], the camera will execute delay shooting.

☑ 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 firs patent function which issued by Pixel limited Enterprise, it'll support spacing continuous shooting within one sec and never change the 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.

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.
- It will be shooting every sec if camera is set as [BULB], it may cause the problem of under or over exposure.
- When the camera function is set to be[⏱], the camera will execute delay shooting.

✎ **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, the transmitter stop sending out the BULB shooting signal and the time also stopped on screen displays.

- 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.

Shooting control

📽 Delay shooting

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

◈ Delay shooting setting
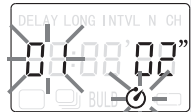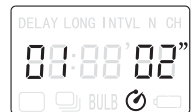
1. In the power-on state, move the transmitter's activities icon to delay shooting icon[⊘] by pressing the left move button[◁]or right move button[▷]. Press the set button entering the delay setting for adjusts the shooting numbers. The delay shooting icon[⊘],number of shooting [🕛]will blink at the same time.

2. Press button[△]settings shot number can be increased, 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 value[🕛]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.

Shooting control

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
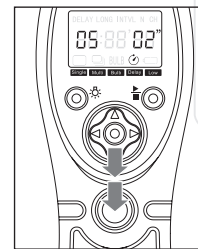
1. Press the left button[◁]or right button[▷], move the transmitter's activity icon to the delay shooting icon[⊘].

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.

Shooting control

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

5、 Before delay time planning completed, press either transmitter button or receiver button or other , will terminate this planning.

- Make sure to set the camera function to be [▢].
- When the camera function is set to be [▣], it will start continuous shooting.
- It will be shooting every sec if camera is set as [BULB], it may cause the problem of under or over exposure.
- 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.
- When the camera lens focus function is set to be [AF], even receiving the shooting signal the camera will not shoot at the moment as most of camera don't seize focus.

Shooting control

✍ Timing plan for shooting

◈ Delay time setting

1. 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[▷].

2. Press the set button, enter the delay time for 'second bit' setting.

3. By pressing button[◁]or[▷],enter into the setting for "minutes" and "hours", as the sketch map.

Delay time of timing plan--hours setting
Delay time of timing plan--minutes setting
Delay time of timing plan--seconds setting

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

Shooting control

◈ Exposure time setting

DELAY **LONG** INTVL N CH
00:00'00"
BULB

1. Press left move button[◁]or right move button[▷], move the transmitter's activities icon to the exposure timing program icon[LONG].
2. Press the set button, enter the delay time for 'second bit' setting.
3. By pressing button[◁]or[▷],enter into the setting for "minutes" and "hours", as the sketch map.

Delay time of timing plan setting → Press ▷ / Press ◁ → DELAY **LONG** INTVL N CH 00:00'0 → Press ▷ / Press ◁ → **LONG** 00:00'01" → Press ▷ / Press ◁ → DELAY **LONG** INTVL N CH 00:00' " → Press ▷ / Press ◁ → Interval time of timing plan setting

Exposure time of timing plan--hours setting   Exposure time of timing plan--minutes setting   Exposure time of timing plan--seconds setting

● 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.

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

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Shooting control

◈ Interval time setting

DELAY LONG **INTVL** N CH
00:00'0 "
BULB

1. Press left move button[◁]or right move button[▷], 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[◁]or[▷],enter into the setting for "minutes" and "hours", as the sketch map.

Exposure time of timing plan setting → Press ▷ / Press ◁ → DELAY LONG **INTVL** N CH 00:00'06" → Press ▷ / Press ◁ → DELAY LONG **INTVL** N CH 00:00'06" → Press ▷ / Press ◁ → DELAY LONG **INTVL** N CH 00:00'06" → Press ▷ / Press ◁ → The shot number of timing plan setting

Interval time of timing plan--hours setting   Interval time of timing plan--minutes setting   Interval time of timing plan--second setting

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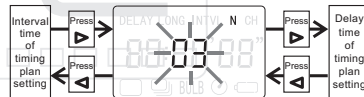
4. Press the set button, save and exit settings.

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Shooting control

◈ The shot number setting

1. Press left move button[◁]or right move button[▷], move the transmitter's activities icon to the icon of timing shots [N].

2. Press the setting button enter to set the number of photo in timing plan's, Press [Δ] to increase the photo number; Press [∇] to reduce the photo number. 1-99photo number is available, when the screen display[--]means this is unlimited to take the photo.

3. By pressing button[◁]or[▷],enter into the setting for "exposure time" and "delay time", "interval time" as the shown picture.
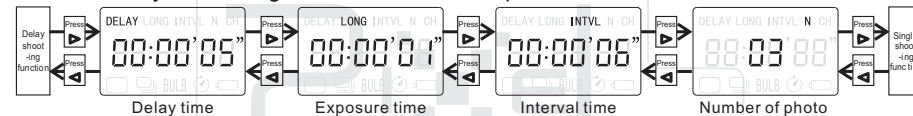
| Interval time of timing plan setting | Press ▷ / Press ◁ | DELAY LONG INTVL N CH [display] BULB | Press ▷ / Press ◁ | Delay time of timing plan setting |

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

Shooting control

◈ 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.

| Delay shoot-ing function | Press ▷ / Press ◁ | DELAY LONG INTVL N CH 00:00'05" BULB | Press ▷ / Press ◁ | DELAY LONG INTVL N CH 00:00'01" BULB | Press ▷ / Press ◁ | DELAY LONG INTVL N CH 00:00'06" BULB | Press ▷ / Press ◁ | DELAY LONG INTVL N CH 88:03:88 BULB | Press ▷ / Press ◁ | Single-ing function |

Delay time   Exposure time   Interval time   Number of photo

◈ Execute timing plan

DELAY LONG INTVL N
00:00'05"
Single Multi Bulb Delay Low

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

2. Press the timer plan start/stop button [ ] ; transmitter sends the information to receiver．The green light of receiver will be flash twice every 2 sec; that's mean the receiver is completely to receive information and start operate correctly. Timing plan will be working in the receiver and send the control signal to the camera.

Shooting control

3.Transmitter's screen will display the running conditions of timing plan, but it will not send any command to the receiver. This is only showing the receiver running conditions and for reference only.

- 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.
- When the timing plan is running on the receiver, press any button of receiver to stop the operation.

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.
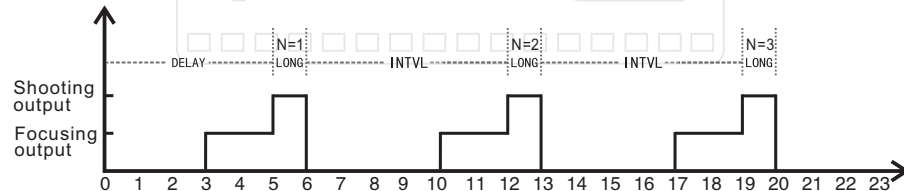
TW-282 Specification

Type : FSK 2.4 GHz wireless control system

Transmission distance: 80 meters or above

Channel: 15 channels

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 × 31mm

Weight(with battery)： Transmitte: 70.5 g

Receiver: 39.5 g

Now you can start to use unique high-performance Wireless Timer Remote Control TW-282. If you have any questions, you can contact the local distributor. Or visit the website http://www.pixelhk.com.
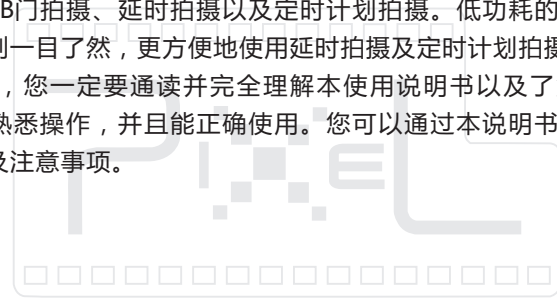
目 录

中文

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总述

☞ 感谢您购买高性能的品色产品

首先，非常感谢您购买高性能的无线定时器TW-282，它拥有简易的单张拍摄、1秒连拍、B门拍摄、延时拍摄以及定时计划拍摄。低功耗的液晶显示屏，能让您的使用计划一目了然，更方便地使用延时拍摄及定时计划拍摄。

在使用前，您一定要通读并完全理解本使用说明书以及了解相机的使用方法，以保证您熟悉操作，并且能正确使用。您可以通过本说明书而轻松掌握本产品的使用方法及注意事项。

注意事项

⚠ 安装电池时极性切勿弄反，否则电池可能渗漏腐蚀性液体、发热或爆炸。

⚠ 在安装接收器(TW-282RX)前，请确认相机和接收器是关机状态。

⚠ 电缆线与设备连接时，请勿拉扯。

⚠ 本产品属电子产品的附件，有可能因外界环境因素影响而造成相机不能或异常动作，这种情况的可能性非常小。

⚠ 不要使产品受到强烈振动，否则可能引起产品故障。

⚠ 长时间不使用产品时，请将电池取出，以防电池渗漏腐蚀性液体而损坏产品。

⚠ 请勿将产品置于高温中，如阳光直射下的封闭汽车内、控制面板等高温地方。

⚠ 请保持干燥，切勿用湿手接触产品，亦不可将产品浸入水中或暴露雨中，否则可能引起产品无法正常使用。

⚠ 请勿在易燃易爆环境中使用本产品，违反此警告可能引起火灾或爆炸。

⚠ 本产品涉及电池，关于电池的使用请严格按照相应的操作规范和注意事项，否则可能引起火灾、爆炸或人身伤害。

TW-282简介

● 利用无线遥控技术，实现对具备外接快门插座的相机进行遥控操作。

● 采用FSK制式，提高了产品的可靠性和稳定性，使用2.4GHz全球免费无线频段，15个可选通道。

● 控制距离可达80米以上。

● 使用液晶屏显示通道、电量、功能模式，简单易懂、操作方便。

● 超低功耗待机，传送器(TW-282TX)使用2节AAA电池，待机时间超过4年；接收器(TW-282RX)使用3V CR-2锂电池，待机时间超过400小时。

● 可以更换不同型号的快门连接线控制不同品牌、不同型号的相机。。

● 可对相机进行单张拍摄、1秒连拍、B门拍摄、延时拍摄及定时计划拍摄的操作。

● 设定相关参数进行定时计划拍摄。

各部位名称

拆开包装后请检查包装内是否包含以下物品，如有缺失请与经销商联系。

1、传送器(TW-282TX) ---1个   2、接收器(TW-282RX) --- 1个

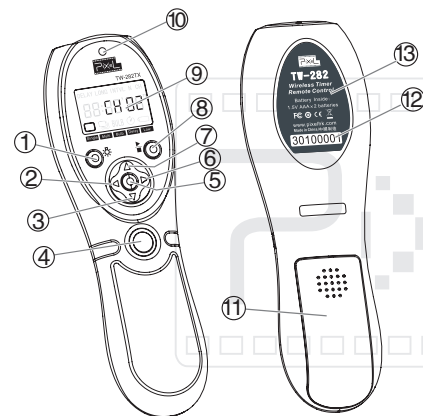3、快门连接线-----------1条   □ □ 4、说明书(本说明书) ------ 1份

下面介绍产品各部位名称:
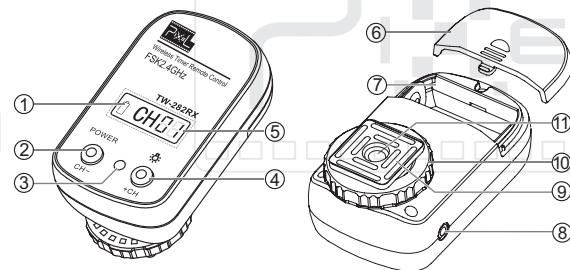
接收器(TW-282RX)

① 电池欠压图标
② 电源按钮/通道减少按钮
③ 指示灯
④ 背光灯按钮/通道增加按钮
⑤ 通道显示屏幕
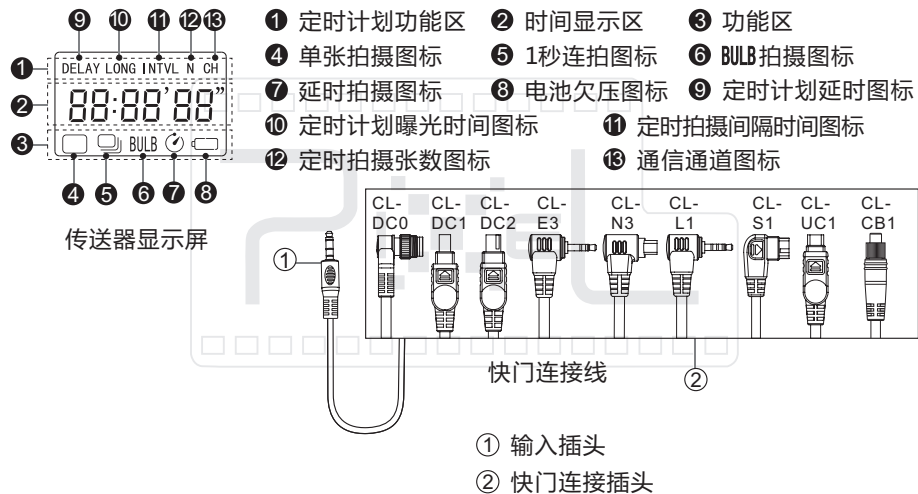⑥ 电池盖
⑦ 电池舱
⑧ 控制信号输出接口
⑨ 热靴固定脚
⑩ 热靴锁紧螺母
⑪ 快装板固定螺母

各部位名称

传送器(TW-282TX)

① 背光灯按钮   ② 左移按钮
③ 数字减少按钮   ④ 释放按钮
⑤ 设置/确定按钮   ⑥ 右移按钮
⑦ 数字增加按钮
⑧ 定时计划启动/停止按钮
⑨ 显示屏   ⑩ 指示灯
⑪ 电池盖   ⑫ 机身号
⑬ 产品背贴纸

各部位名称

❶ 定时计划功能区　❷ 时间显示区　　❸ 功能区
❹ 单张拍摄图标　　❺ 1秒连拍图标　❻ BULB 拍摄图标
❼ 延时拍摄图标　　❽ 电池欠压图标　❾ 定时计划延时图标
❿ 定时计划曝光时间图标　⓫ 定时拍摄间隔时间图标
⓬ 定时拍摄张数图标　　　⓭ 通信通道图标

传送器显示屏

CL-DC0　CL-DC1　CL-DC2　CL-E3　　CL-N3　CL-L1　　CL-S1　CL-UC1　CL-CB1

快门连接线

① 输入插头
② 快门连接插头

安装及使用设备

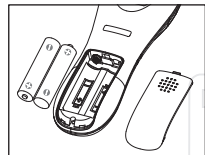　　开始使用前，请您务必认真阅读相机的使用说明书，并了解相机的操作方法及功能设定。因为相机的功能设定可能会影响到本产品对相机的有效控制。

📠 安装更换电池

◈ 传送器(TW-282TX)

　　当传送器电池电量不足时，显示屏上的笔画明显变暗或电池欠压图标[▭]将闪烁，则表示电池电压已经降到影响设备工作性能的限度，应尽快更换电池。传送器使用二节AAA电池，如需更换请按如下步骤进行:

1、滑动电池盖，将其打开。

安装及使用设备

2、按照电池舱内的正极[＋]和负极[-]标志将电池正确装入。

⚠ 安装电池时应注意电池的极性，错误的安装会使设备无法正常工作，甚至损坏设备及造成人身伤害。
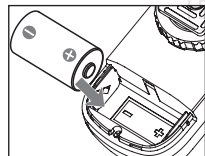
3、关闭电池盖。

◈ 接收器(TW-282RX)

TW-282RX

当接收器电池电量不足时，显示屏上的电池欠压图标[ ]将闪烁，则表示电池电压已经降到影响设备工作性能的限度，应尽快更换电池。接收器使用一节CR-2锂电池，如需更换请按如下步骤进行：

1、滑动电池盖，将其打开。

2、按照电池舱内的正极[＋]和负极[-]标志将电池正确装入。
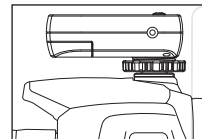
⚠ 安装电池时应注意电池的极性，错误的安装会使设备无法正常工作，甚至损坏设备及造成人身伤害。

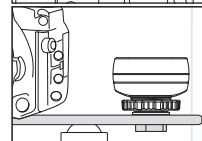3、关闭电池盖。

安装及使用设备

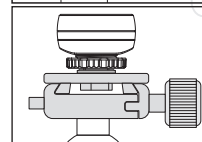### 📷 固定接收器(TW-282RX)

可将接收器固定于相机机顶、机身附件固定架或三脚架上。

● 将接收器固定于相机机顶热靴。

⚠ 固定时要锁紧热靴锁紧螺母。

⚠ 从相机机顶卸下接收器时，需先松开热靴锁紧螺母。切勿强行用力拔出，以免损坏接收器和相机。

● 将接收器固定于相身附件上。

● 将接收器固定于三脚架上。

1. 通过热靴脚底部螺母将接收器固定在快装板上。
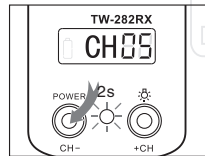2. 将快装板安装在三脚架上。

⚠ 接收器安装时，应确保设备安装牢固，防止设备滑落。

安装及使用设备

✍ 打开或关闭电源

◈ 传送器(TW-282TX)

1、按任何按钮一次，打开传送器电源。
2、打开电源后，传送器处于单张拍摄状态，之前设置的定时计划和通信通道不变。
3、屏幕显示单张拍摄图标及通信通道。
4、传送器在无任何操作的情况下(正在执行定时计划或执行B门时除外)1分钟后将自动关闭。

◈ 接收器(TW-282RX)

1、按电源按钮[POWER] 2秒钟，打开接收器电源，此时，指示灯每隔2秒闪亮一次绿灯，屏幕显示通信通道。
2、打开电源后，之前设置的通信通道仍然有效。
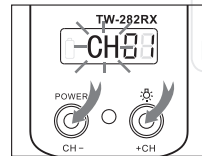3、接收器电源不会自动关闭，在开机状态下，按下电源按钮2秒将关闭接收器电源。

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安装及使用设备

✍ 设置通信通道

◈ 设置传送器(TW-282TX)的通信通道

1、按左移按钮[◁]或右移按钮[▷]，将传送器活动功能图标移至通道图标 [CH]。
2、按设置/确定按钮进入通道设置。此时，通道数字闪烁。
3、通过按数字增加按钮[Δ]或数字减少按钮[∇]，调整通道号码。
4、再次按下设置/确定按钮，保存当前通道。

◈ 设置接收器(TW-282RX)的通信通道

1、打开电源，通信通道默认为上次设定的通道。
2、同时按下[+CH]和[CH-]按钮，进入通道设置，显示屏上的通道图标[CH]闪烁。
3、按[+CH]通道增加1、[CH-]通道减少1。
4、再次同时按下[+CH]和[CH-]按钮或10秒无动作保存并退出设置。

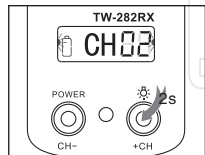*传送器与接收器必须保持相同频道才能进行有效控制.

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安装及使用设备

☞ 打开背光灯

◈ 传送器(TW-282TX)

按住背光灯按钮2秒钟后，将打开显示屏背光灯。

- 打开背光灯后两次按键操作时间间隔在6秒钟内，背景灯将一直点亮。
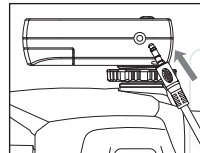- 背景灯不能手动关闭，在无任何操作6秒钟后将自动关闭。

◈ 接收器(TW-282RX)

在开机状态下，按住背光灯按钮2秒钟后，将打开背光灯。

- 打开接收器背光灯后两次按键操作时间间隔在6秒钟内，背光灯将一直点亮。
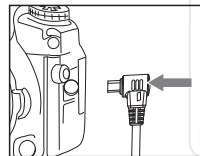- 背光灯不能手动关闭，在无任何操作6秒钟后将自动关闭。

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安装及使用设备

☞ 接收器与相机的连接

1、 确认您的接收器已安装到位，并确保相机及接收器均已关机。

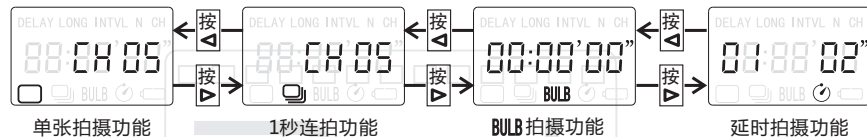2、 首先将快门连接线的输入插头插入接收器的控制信号输出接口，确认接插到位。

- 快门连接线没有插到位可能会造成定时器无法控制相机。

3、 将相机固定于三脚架或其它固定支架上。打开相机外接快门插座保护盖，将连接线的快门插头插入相机的外接快门插座，确保接插到位，有锁紧螺母的需将螺母旋紧。

- 大部分相机的外接快门插座带有防误插缺口，插入时请注意插头方向，以免损坏相机的外接快门插座。
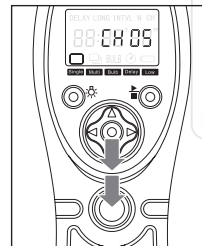
4、打开接收器电源，再打开相机电源。

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拍摄控制

拍摄功能选择示意图：

| 单张拍摄功能 | 1秒连拍功能 | BULB 拍摄功能 | 延时拍摄功能 |

　　以下的使用介绍是指接收器与相机已经连接牢固，并打开接收器及相机电源，下面将详细介绍拍摄功能的使用。

拍摄控制

☞ 单张拍摄

1、在开机状态下通过按左移按钮[◁]或右移按钮[▷],将传送器的活动功能图标移至单张拍摄图标[▢]。

　● 在休眠状态下，按任何键能唤醒传送器并进入单张拍摄模式。

2、半按释放按钮，传送器发出对焦信号，传送器和接收器上的绿色指示灯点亮，相机处于对焦状态，直至松开或全部按下。

3、全按释放按钮，传送器发出拍摄信号，传送器和接收器上的红色指示灯点亮片刻，相机进行拍摄。

　● 应将相机功能设置为[▢]。

　● 当相机功能设置为[�及]时，可能会出现连续拍摄。

　● 当相机功能设置为[BULB]时，相机将以B门功能拍摄，可能造成曝光不足或过曝。

　● 当相机功能设置为[⏱]时，相机将会延时拍摄。

拍摄控制

📷 1秒连拍

1、在开机状态下通过按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至1秒连拍图标[🖳]。

• 1秒连拍是品色公司首先推出的专利功能，在不改变相机单张拍摄功能的情况下实现1秒间隔的连拍。

2、半按释放按钮，传送器发出对焦信号，传送器和接收器上的绿色指示灯点亮，相机处于对焦状态，直至松开或全部按下。

3、全按释放按钮，传送器和接收器上的红色指示灯点亮，保持全按释放按钮，传送器将连续发送拍摄信号，传送器和接收器的红绿指示灯交替点亮，相机进行连续拍摄动作。拍摄速度为每秒1张。

4、松开释放按钮，传送器停止发送信号，相机停止拍摄。

• 应将相机功能设置为[▢]。

• 当相机功能设置为[🖳]时，可能会每秒出现多次连续拍摄。

• 当相机功能设置为[BULB]时，相机将以B门功能拍摄，可能造成曝光不足或过曝。

• 当相机功能设置为[⏱]时，相机将会执行一次或多次延时拍摄。

拍摄控制

📷 BULB 拍摄

1、在开机状态下通过按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至B门拍摄图标[BULB]。

2、半按释放按钮，传送器发出对焦信号，传送器和接收器的绿色指示灯点亮，相机处于对焦状态，直至松开或全部按下。

3、全按释放按钮，传送器发出B门开始信号。传送器红灯开始闪烁并且计时开始，接收器上的红灯保持点亮，接收器连续输出拍摄信号。相机开始连续曝光拍摄。

4、再次按下释放按钮，传送器输出B门拍摄停止信号，并显示曝光时间相机停止曝光拍摄。

• 应将相机功能设置为[BULB]。

• 当相机功能设置为[▢]时，相机只拍摄一次而不会进行B门拍摄。

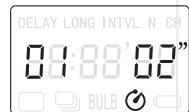• 当相机功能设置为[🖳]时，相机将会进行连续拍摄。

• 当相机功能设置为[⏱]时，相机将会延时拍摄一次。

延时拍摄

TW-282的延时拍摄功能是可自定义延时时间和拍摄张数的。

◈ 延时拍摄的设置

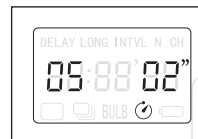1、在开机状态下通过按左移按钮[◁]或右移按钮[▷]，将传送器活动功能图标移至延时拍摄图标[⟳]。按设置按钮进入延时拍摄的拍摄张数设置。此时延时拍图标[⟳]、拍摄张数值[01]同时闪烁。

2、按[△]，设置可拍摄张数增加，按[▽]键，设置可拍摄张数减少。可设置拍摄张数1-99张。
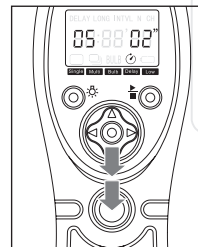
3、按[▷]键，进入延时拍摄的延时时间设置。此时延时拍摄图标[⟳]、延时时间值[02]同时闪烁。

4、按[△]，设置延时拍摄时间增加，按[▽]键，设置延时拍摄时间减少。可设置延时时间1-59秒。

5、设置完新参数后，按设置按钮，保存参数并退出设置。

● 进入延时拍摄的设置时，传送器将保存上一次的设置参数。

● 可以通过按左移按钮[◁]或右移按钮[▷]，转换拍摄张数和延时时间的设置。

● 轻按[△]键一次，设置数值增加一，按住不放，设置数值将快速增加；轻按[▽]键一次，设置数值减少一，按住不放，设置数值将快速减少。

◈ 延时拍摄的操作

1、按左移按钮[◁]或右移按钮[▷]，将传送器活动功能图标移至延时图标[⟳]。

2、半按释放按钮，传送器发出对焦信号，传送器和接收器上的绿色指示灯点亮，相机处于对焦状态，直至松开或全部按下。

3、全按释放按钮，传送器将全部拍摄信息发送到接收器，传送器开始延时倒计时，接收器红色指示灯快闪并进入延时拍摄状态。

拍摄控制

4、 倒计时完毕，接收器将按设置的拍摄张数每秒输出一个拍摄信号控制相机拍摄。

5、 延时计划未完成之前再次按下发射器释放按钮或接收器任何按键将终止本次延时计划操作。

- 应将相机功能设置为[▢]。
- 当相机功能设置为[❑]时，可能会出现多次连续拍摄。
- 当相机功能设置为[BULB]时，相机每秒以B门功能拍摄，可能造成曝光不足或过曝。
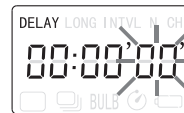- 当相机功能设置为[⏱]时，相机将会执行一次或多次延时拍摄。

中文

- 当相机镜头对焦功能设置为[M]时，半按传送器的释放按钮，相机将不进行对焦动作。
- 当相机镜头对焦功能设置为[AF]时，大部分相机在没有找到拍摄焦点时，即使收到拍摄信号也不会进行拍摄动作。

拍摄控制

✉ 定时计划拍摄

◈ 延时时间设置

DELAY LONG INTVL N CH
00:00'00"
BULB

1、 在开机状态下通过按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划的延时时间图标[DELAY]。

2、 按设置按钮，进入延时时间"秒位"设置。

3、 通过按左移按钮[◁]或右移按钮[▷]进入分钟、小时设置。

如下图所示移动设置项。

| 定时计划拍摄张数设置 | 按▷ 按◁ | DELAY LONG INTVL N CH 00:00'05" BULB | 按▷ 按◁ | DELAY LONG INTVL N CH 00:00'05" BULB | 按▷ 按◁ | DELAY LONG INTVL N CH 00:00'05" BULB | 按▷ 按◁ | 定时计划曝光时间设置 |

定时计划延时时间的小时设置　　定时计划延时时间的分钟设置　　定时计划延时时间的秒钟设置

- 轻按[△]键一下，数值增加一，按住不放，设置参数将快速增加；轻按[▽]键一下，设置数值减少一，按住不放，设置参数将快速减少。

4、 按设置按钮，保存并退出设置。

拍摄控制

◈ 曝光时间设置

DELAY LONG INTVL N CH
00:00'00"
BULB

1、按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划的曝光时间图标[LONG]。
2、按设置按钮，进入曝光时间"秒位"设置。
3、通过按左移按钮[◁]或右移按钮[▷]进入分钟、小时设置。

如下图所示移动设置项。

定时计划延时时间设置 →按▷→ DELAY LONG INTVL N 00:00'00" →按▷按◁→ LONG INTVL 00:00'00" →按▷按◁→ DELAY LONG INTVL N 00:00'00" →按▷按◁→ 定时计划间隔时间设置

定时计划曝光时间的小时设置　　定时计划曝光时间的分钟设置　　定时计划曝光时间的秒钟设置

- 轻按[△]键一下，数值增加一，按住不放，设置参数将快速增加；轻按[▽]键一下，设置数值减少一，按住不放，设置参数将快速减少。
4、按设置按钮，保存并退出设置。

拍摄控制

◈ 间隔时间设置

DELAY LONG INTVL N CH
00:00'00"
BULB

1、按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划的间隔时间图标[INTVL]。
2、按设置按钮，进入间隔时间"秒位"设置。
3、通过按左移按钮[◁]或右移按钮[▷]进入分钟、小时设置。

如下图所示移动设置项。

定时计划曝光时间设置 →按▷按◁→ DELAY LONG INTVL N CH 00:00'00" →按▷按◁→ DELAY LONG INTVL N CH 00:00'00" →按▷按◁→ DELAY LONG INTVL N CH 00:00'00" →按▷按◁→ 定时计划拍摄张数设置
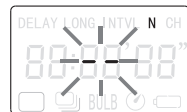
定时计划间隔时间的小时设置　　定时计划间隔时间的分钟设置　　定时计划间隔时间的秒钟设置

- 轻按[△]键一下，数值增加一，按住不放，设置参数将快速增加；轻按[▽]键一下，设置数值减少一，按住不放，设置参数将快速减少。
4、按设置按钮，保存并退出设置。

拍摄控制

◈ 拍摄张数设置

1、 按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划的拍摄张数图标[N]。

2、 按设置按钮，进入定时计划的拍摄张数设置。按[△]，设置可拍摄张数增加，按[▽]键，设置可拍摄张数减少。可设置拍摄张数1-99张。当拍摄张数为[--],表示不限张数拍摄。

3、通过按左移按钮[◁]或右移按钮[▷]进入 "间隔时间"、 "延时时间"的设置，如右图所示移动设置项。
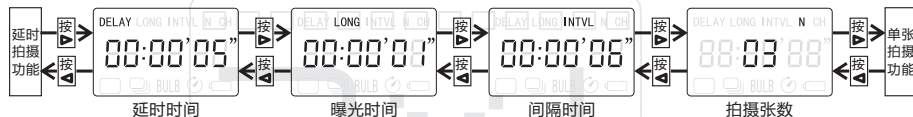

4、按设置按钮，保存并退出设置。

◈ 查询定时计划

1、 按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划图标区即可查询相关定时计划项目。

拍摄控制

2、 查询相关项目时，如需对该项目的参数进行调整，只需按设置按钮即可进入相关项目的设置，再次按下设置按钮，保存并退出设置。活动图标的移动顺序如下图所示。

| 延时时间 | 曝光时间 | 间隔时间 | 拍摄张数 |

◈ 运行定时计划

1、 按左移按钮[◁]或右移按钮[▷]，将传送器的活动功能图标移至定时计划图标区的任意图标。

2、 按定时计划启动/停止按钮[▤]。传送器将所有信息发送至接收器。此时接收器绿灯每隔2秒快闪2次，表示接收器接收到完整信息并正确运行。定时计划将在接收器中运行，并对相机输出控制信号。
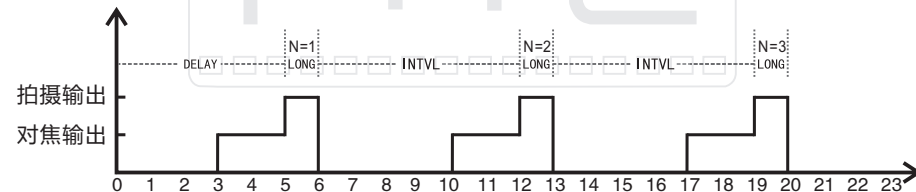
拍摄控制

3. 传送器显示屏将显示定时计划的运行情况,但不对接收器发送控制命令, 只供参考了解接收器的运行情况.

- 在定时计划未运行完毕之前再次按下传送器定时计划启动/停止按钮[▸]，传送器和接收器将停止定时计划的运行。
- 接收器在运行定时计划时，按下接收器任何键将终止本次定时计划的运行。

　　下面将事例说明定时计划的运行：延时时间[DELAY]＝5秒，曝光时间[LONG]＝1秒，拍摄间隔[INTVL]＝6秒，拍摄张数[N]＝3。

拍摄输出
对焦输出

TW-282 规格

类型：	使用FSK 2.4GHz无线遥控系统
传送距离：	80米以上
通道：	15个通道
待机时间：	传送器：4年以上(使用2节AAA电池)
	接收器：400小时(使用CR-2锂电池)
体积(宽×高×深):	传送器：149mm×49.5mm×24mm
	接收器：63mm×38mm×31mm
重量(含电池)：	传送器：70.5克
	接收器：39.5 克

　　现在，您可以开始使用无与伦比的高性能无线定时器TW-282，如有任何疑问可以向当地经销联系。或登录 http://www.pixelhk.com.cn