

Lithium Battery Speedlite





press SET\*RMOT button, and then move setting icon to Group Control Setting [ALL], then turn dial selector to select the group as needed. Master Group Mode Switch:  $ALL \rightarrow A \rightarrow : B \rightarrow A:BC$ 

Slave Group Mode Switch:  $A \rightarrow B \rightarrow C$ 

- 3. Flash Channel Setting After entered wireless flash Master mode, continuous press SET\*RMOT button, and then move setting icon to Channel Setting [CH1], then turn dial selector to select floch becared. flash channel. Optional channel: CH1-CH4, 4 channels in total. Slave flash channel need to set in the slave interface, the method is the same as master channel

If the transmission channels of the master unit and slave unit are different, then the slave unit won't fire. Both Master and slave must be set to the same channel.

4. Master Flash On/Off Setting
 After entered wireless flash Master mode, continuous press SET\*RMOT button, and then move setting icon to Master Flash On/Off [ Image: ], then turn dial selector to select Master Flash On[ Image: ] or Off [ Image: ].

 When flash is On, master flash will join in exposure.
 When flash is Off, master flash will not join in exposure.

- ※ Under Slave mode, it's not available to set flash On/Off. Here flash is On by default.
- When using optical transmission function and the Master flash set as OFF, the Master flash may join in exposure under low sync served according to optical nulse transmission theory. ETTL Mode Under ETTL mode, you can set group flash ratio,
- $ALL \rightarrow A: B \rightarrow A: BC$
- 1. A:B can set the flash ratio of group A,B; 2. A:BC can set the flash ratio of group A, B. Under this mode, group C is independent which can be set
- 3. Under ALL mode, all of units will join in firing.
- ※ If need more flash output, you can invite the numbers of the slave unit which is unlimited

### M Mode

- Inder manual wireless flash mode, the Master unit can set different flash output for every slave flash (every
- 1. A:B can set the flash output of group A ,B, except group
- 2. A:BC can set the flash output of group A, B, C. Each
- 3. Under ALL mode, all of units will join in firing.
- MULT Mode
- 1. A:B can set different flash output of group A and B individually, except group C. The frequency and flash
- times of group A and B are the same; 2. A:BC can set the flash output of group A, B, C. The flash
- power of the three groups can be set separately. And the frequency and flash times of the three groups are the same; \_ 9 \_

**Warning** 

- Do not expose this product in high temperature location or confined spaces exposed to strong direct sunlight and other
- overheating places. Keep it dry. Do not touch this product with wet hand. Do not expose this product to water or rain, or you may not be able to use it.
- Do not use it in inflammable gas, or it may cause explosion
- This product involved in battery Please strictly follow the corresponding operations related to battery, or it may cause explosion or fire.
- Do not put the component in strong vibration, or it may
- Remove the batteries during long periods of non-use.
  Do not use the flash light in a short distance from the eyes, or it may cause possible injury to eyes or blindness.
- After continuous use, it will be very hot. Do not touch, or it may cause burn.
- After continuous use, the battery might be hot. Please be
- Do not disassemble or maintain this product by yourself. The internal high voltage will cause electric shock.
  Only the same brand and battery type can be used.

### Specifications

| Spec                   | incations  |
|------------------------|--|
| GN:                    | 60 (ISO100 200mm)  |
| Flash Coverage Range:  | 20 -200mm  |
| Auto Zoom:             | According to shooting angle and image to auto adjust the coverage range  |
| Manual Zoom:           | According to camera or flash setting to adjust the zoom range            |
| Flash Mode:            | ETTL/M/MULT  |
| Stroboscopic Flash:    | 1-500Hz  |
| Wireless Flash:        | Radio transmission/ Optical transmission<br>support Master/ Slave, S1/S2 |
| SYNC Mode:             | High Speed Sync, 1st Curtain Sync, 2nd Curtain Sync                      |
| Adjustable Angle:      | Up/down: -7/90 degree Left/Right: 180 degree/180 degree                  |
| Manual Flash:          | 1/128-1/1 output control (1/3rd increments)                              |
| Recycle Time:          | Less than 2.5 sec (1/1 full power output)                                |
| LCD Display Screen:    | High definition dot matrix screen  |
| Internal Power Source: | 4×AA size alkaline batteries or rechargeable batteries (4×1.5V           |
| External Interface:    | Hot shoe, PC port, USB port, external power port                         |
| EV:                    | In 1/3rd increments (±3 stops)   |
| FEB:                   | In 1/3rd increments (±3 stops)   |
| Battery Life:          | 180 times (1/1 flash output, with Sanyo Eneloop batteries)               |
| Fluorescent tube:      | Ultra-long battery life design   |
| Overheating Warning:   | Multi dot matrix temperature control, battery overheating warning        |
| AF-Assist Beam:        | Support  |
| Firmware Upgrade:      | Support  |
| Dimension:             | 73.50mm×61.00mm×192.00mm   |
| Weight:                | 420.00g (excluding batteries)  |
|                        |  |

3. Under ALL mode, all of units will join in firing. The frequency and flash times of every firing group are the

\_ 1 \_

- \* Under MULT mode of optical transmission flash, flash frequency can be set between 1-199Hz.
   \* Optical transmission is achieved by optical pulse, so its transmission performance is not so good and transmission distance is short. For better use wireless flash function, we are advised to use wireless flash mode. Being less affected by obstacles, wireless signal transmission and control efficiency are

## S1/S2 Optical Control Mode

S1 Manual Optical Transmission Mode: when set flash as this mode, it can work with the first firing of the Master ously. Set Master flash as manual M mode. flash synchron The ETTL or MULT mode cannot be fired

S2 ETTL Optical Transmission Mode: when set flash as this mode it can fire with the ETTL mode of the Maste usly. Set Master flash as ETTL auto metering mode. The M or MULT mode cannot be fired.

- 1. After entered optical Slave Mode (SL), gently press MODE\*FN button and then turn dial selector to select MODE S1 or MODE S2 mode.
- 2. Under Slave MODE S1 or MODE S2 mode, press +/- and then turn dial selector to adjust the output power o Slave Flash.
- MODE\*FN: namely gently press Slave mode, press and hold to

## Wireless Flash Control

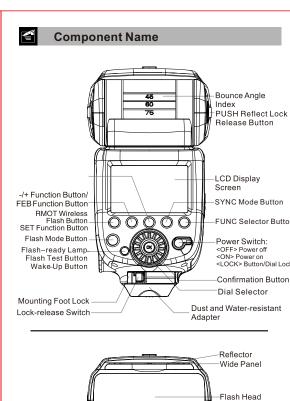
X900 speedlite is equipped with radio transmission flash function With radio transmission flash firing is less affected by obstacles, so its transmission and o efficiency are much higher. When using with Pixel King PRO and OPAS flash trigger, or among X900c,X800PRO speedlites (Master/Slave), you can use wireless transmission flash

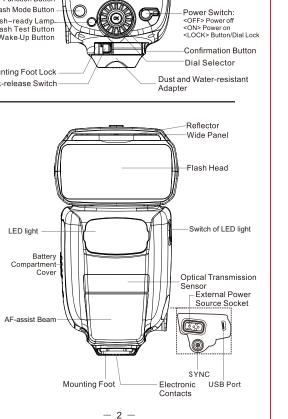
The X900 wireless flash (2.4GHz) system is not compatible with that of Canon original flash. It can only be compatible with part of Pixel wireless products

## Radio Transmission Flash Function Parameter

- Transmission Method: FSK2.4GHz Mode Control: Master/Slave Channel Control: 1-15 channels Group Control: 3 groups (A/B/C) Transmission Distance: about 50M Flash Ratio Control: 1:8-1:1-8:1
- Sync Mode: HSS, 1st curtain sync Wireless Flash Control Operation Introduction
- eless flash control can set Master/Slave group contro channel control, Master flash On/Off

- 10 -





### . Master/Slave Mode Setting

Master/Slave Mode Setting Master Mode Setting: press and hold \*RMOT button to enter wireless flash control mode. Gently press this button again and then turn dial selector to select radio transmission mode[ im ]. If this mode is already displayed after entered wireless flash control interface, then there is no need to make setting. When using wireless flash, the speedlite mounted on the camera set as this mode.

Slave Mode Setting: after entered wireless flash mode, press and hold SET\*RMOT button to enter Slave mode [SL]. Gently press this button again and then turn dial selector to select Slave optical transmission mode[im]. If this mode is already displayed on the interface after entered slave mode, then there is no need to make

2. Group Control Setting After entered wireless flash Master mode, continuous press SET\*RMOT button, move setting icon to Group ntrol Setting [ ALL], then turn dial selector to select the group as needed Master Group Mode Switch:  $ALL \rightarrow A: B \rightarrow A: BC$ 

Slave Group Mode Switch:  $A \rightarrow B \rightarrow C$ 

3. Flash Channel Setting After entered wireless flash Master mode, continuous press SET\*RMOT button, and then move setting icon to Channel Setting [CH1], then turn dial selector to select channel. Optional channel: CH1-CH15.15 channels in interface, the method is the same as master channel setting. If the transmission channels of the master unit and slave unit are different, then the slave unit won't fire. Both Master and slave must be set to the same channel.

4. Master Flash On/Off Setting After entered wireless flash Master mode, continuous press SET∗RMOT button, and then move setting icon to Master Flash On/Off[ ], then turn dial selector to select Master Flash On [] or Off [].

Under Slave mode, it's not available to set flash On/Off. Here the flash is On by default.

## ETTL Mode

Jnder ETTL mode, you can set group flash ratio,  $ALL \rightarrow A: B \rightarrow A: BC$ 

- A:B can set the flash ratio of group A,B; 2. A:BC can set the flash ratio of group A, B. Under this mode, group C is independent which can be set
- 3. Under ALL mode, all of units will join in firing.
- \* If need more flash output, you can invite the numbers of the slave

### M Mode

nder manual wireless flash mode, the Master unit can set different flash output for every slave flash (every group).

- . A:B can set the flash output of group A.B. except group C: 2. A:BC can set the flash output of group A, B, C. Each group
  - 11 —

power of the three groups can be set separately. And the frequency and flash times of the three groups are the same; . Under ALL mode, all of units will join in firing. The frequency and flash times of every firing group are the same.

### Error Warning Prompt activated, the following information will display on the screen Motor Error Promot

WARNING: MOTOR ERROR Motor Error, Battery and Flash Head Overheating Prompt: WARNING: MOTOR ERROR BAT LAMP TEMPERATURE

Flash Head Overheating Promot WARNING: LAMP TEMPERATURE Battery Overheating Promp VARNING: BATTER TEMPERATURE

### Unknown Error Promo VARNING: ERROR 90

ntroduction of the function Both Wireless trigger King pro and x900 pro have FSK2.4GHz wireless control mode, and X900 Speedlite has a built-in wireless receiver; When used with king pro, the x900 pro flash can be controlled without Receiver and all kinds of flash modes can be controlled by king pro, for example: TTL, M, focal length, exposure compensation and so on At the same time, two flashes can be used in wireless flash mode through 2.4GHz communication without any trigger. (Beside FSK2.4GHz mode, x900 pro has optical mode. The introduction is about the operation mode of FSK2.4GHz)

- 12 -



M<sub>zoom</sub>

Flash EV: LA

ETTL.

MULT

EV: ±3.0EU

Flash Head

Down:

Down Ico

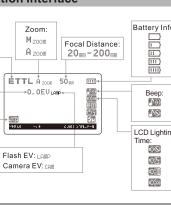
Time:

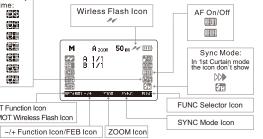
RMOT Wireless Flash Icon

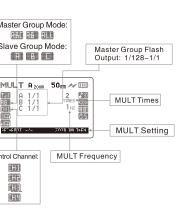
Vireless Flash Mode

n: 📈

Icon:







### unit is independent, without interference B. Under ALL mode, all of units will join in firing.

A:B can set different flash output of group A and B individually, except group C. The frequency and flash times of group A and B are the same;
 A:BC can set the flash output of group A, B, C. The flash

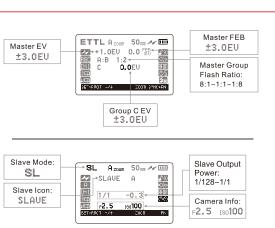
W Under MULT mode of wireless flash, flash frequency can be set between 1-199Hz.

# s on the flash or overheating protection is

Motor Error, Flash Head Overheating Prompt: WARNING: MOTOR ERROR LAMP TEMPERATURE

When a prompt occurs on flash motor and unknown error, you are advised to switch on-off the flash repeatedly to make it self-recovery. After recovery, the prompt info will disappear, and you can reuse it. If Anter recovery, the prompt into wind stappear, and you can reuse it. In not, you are advised to contact the dealer for repair. When you use the flash continually, flash head and battery overheating protection will be activated, then the LCD display screen will shows error prompt and restrict flash firing. Now please turn off the flash and allow a rest time for reuse. Then the prompt info will disappear, and you concrete it.

### ne introduction of the operation of Pixel Wireless Trigger King PRO and X900 Speedlite





## Introduction

X900 Speedlite is the newest one developed by Pixel which has multifunction and fast recycle time. Featured with fast recycle time, it can use Lithium battery, AA battery and can be used with Pixel power bank TD-386 which has high power capacity. When use lithium battery or power bank TD-386, the recycle time is less than 1.5 sec, full power output is up to over 700 times that makes you cannot miss the amazing moment: It has the configurations of HSS, high GN, wireless control, stroboscopic and so on. The frequency of stroboscopic is up to 500 times, the performance is more strong and stable; In the area of controlling Speedlite, beside the optical control, it imports wireless control system FSK2.4GHz and supports the direct wireless control between King PRO, Speedlite and Speedlite making the match between speedlites more free. X900 Speedlite ingeniously adopts 4 watt full white light LED creative set light, LCD lattice screen with high definition,multi-matrix overheat warning system and other thoughtful equipment. It is a Speedlith with high performance upgrade firmware through Mini port to enjoy official and thoughtful services from Pixel

### Dial Selector

This dial selector is applied to adjust setting parameter of the flash. Turn left to reduce setting parameter, and turn right to increase setting parameter. - 4-

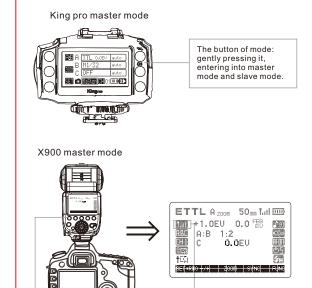
### Introduction of operation

Please make sure the communication mode, channel and group of king pro and x800 pro are correct otherwise they canno communicate and be used normally. The king pro and x800 pro installed on the end of camera should be set as master mode, the off-camera flash should be set as slave mode; then, the group of master mode and slave mode and the channel should be set as the same

## 1.Communication mode settin

The gear installed on the camera must be set as master mode: The master mode setting of King Pro: After power-on, gently pressing the right first button on the king pro installed on the amera, entering into the setting of master mode and slave mode to set the mode by pressing the left first button that will be display a "+" on the screen and the second button that will display a "-" on the screen. Then, pressing the first left button that will display an "OK" on the screen.

The master/slave mode setting of X900: you can enter into the master mod by pressing the first upper left button on flash for a long time (the button of "RMOT") and choose FSK2.4GHz wireless mode as flash mode. [ 🔚



2.4GHz Pressing the button of "RMOT" a long time, you can enter into the maser mode.

e icon of master mode c

### **\*RMOT Wireless Flash Button**

ess and hold this button to enter wireless control mode. The wireless mode and optical transmission mode can be set individually. First, press and hold this button to enter wireless flash mode; and then press and hold this button again to enter Slave mode; and press and hold once again to exit wireless flash mode

SET\*RMOT: namely gently press to set SET function. Press and hold this button to enter next function. With\*mark function button means press and hold this button to enter the corresponding function setting.

### -/+ Function Button

This function button is applied to adjust output parameter of the flash, FEB and other functions. Function adjustment alters from shooting mode. It's subject to image display unction, FEB, namely flash exposure bracket. When displaying FEB, you may set flash exposure bracket.

his Zoom button is applied to set Zoom mode. Zoom mode includes manual zoom [Mzoom] and auto zoom [Azoom]. Set this function with dial selector

K Focal distance can set as 20-200mm. Some cameras do not support higher focal distance. The setting of focal distance is subject to camera. In a range of 20-200mm, it will be displayed correctly. But an error may occur if out of this range. So also does if the range doesn't comform to this flash.

### SYNC Mode Button

SYNC\*FN button can set flash sync mode and FN function settings individually. SYNC\*FN: gently press this button to set flash sync mode.

Press and hold this button to enter FN function setting.

SYNC can set HSS, 1st curtain sync and 2nd curtain sync mode. Gently press this button to set HSS [27], 1st curtain sync [it won't show the icon], 2nd curtain sync [\bb]. Please select the sync mode as needed. Press and hold this AF-assist Beam Setting and Stand-by Time Setting.

Beep Setting Press and hold to enter FN function setting, and then turn dial selector to turn on beep [ 1 or turn off beep [ 1 ]. then press OK to confirm the settings.

LCD Lighting Time Setting Press and hold to enter FN function setting, and then continuously press this button to move the setting icon to LCD Lighting Time Setting, and then turn dial selector to

- select LCD Lighting Time: [ seans on all the time.
- [ 💽 ] means on for 5 sec,
- 🕅 means on for 10 sec,
- 1 means turn off the light. Press OK to confirm the set

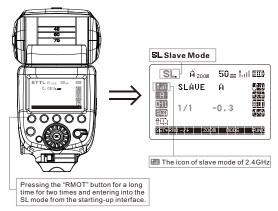
## AF-assist Beam Setting

AF-assist beam is mainly applied to low-light or low contrast shooting environment. Under this condition, the \_ 5 \_

## The remote flash must be set as slave mode

X900 slave mode setting: After power-on, pressing the button "RMOT" for two times entering into SL mode.

### X900 slave mode



### The setting of communication channel.

King PRO communication channel setting: After powered-on gently pressing the second button on the upper right corner of the King pro (the button on the center) to enter into communication channel and choose setting function by pressing the first button on upper left corner that will show a "+" on screen and the second button that will show a "-" on the screen. Then, pressing button to choose "01" to "15" channels and pressing the first button on the lower left of the king pro that will show an "OK" on the screen.

The communication channel setting of X900 Speedlite: Gently pressing the first button on the upper left corner of the flash that correspond to the button of "SET\*RMO" on the lower left of Canon flash. When the indicator is on, entering into the communication channel setting and turning the round dial near the "OK" on the screen. You can choose the channel from "CH01" to "CH04" and press the button of "OK" to confirm.

built-in AF-assist beam activates automatically to help

Press and hold to enter FN function setting, and then continuously press this button to move the setting icon to AF-assist Beam Setting, and then turn dial selector to turn on AF [ [ []] or turn off AF [ []]. Press OK to confirm the settings

Stand-by Time Setting Press and hold to enter FN function setting, and then continuously press this button to move the setting icon to Stand-by Time Setting, and then turn dial selector to select stand-by time: 🔚 ] means 5mins stand-by time.

- means 10mins stand-by time, means 30mins stand-by time,
- I means 1hr stand-by time.
- means 2hrs stand-by time, means 4hrs stand-by time, means 4hrs stand-by time,
- 🐼 l means non-sleep mode.

Press OK to confirm the settings. When under wireless Slave mode, the default stand-by time as 1 hour. When flash entered sleep mode, the flash display screen will show [ []] icon. Half-press camera shutter or Flash Test Button to wake up the flash.

It's applied to lock the parameter settings of the flash, avoiding the flash parameter may be changed accidently.

Flash mode button. It's applied to set the flash mode. You can set the flash mode to ETTL full auto flash, Manual flash and Mult flash mode individually. Press and hold this button to reset your flash to the original factory settings.

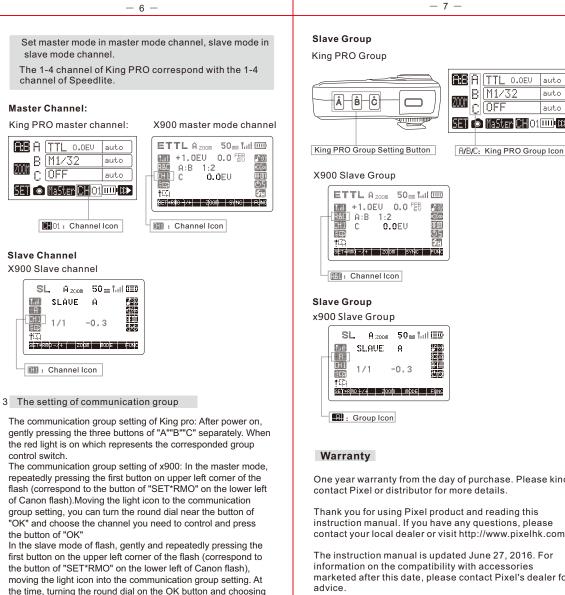
ETTL Flash Mode. The camera and flash metering system will work together to make correct exposure, thus the shooting subject and background will get balanced exposure. Under this mode, it's available to set the EV and FEB. The EV and FEB adjustable power is between -3.0EV to + 3.0EV in 1/3 increments.

nual Flash Mode. You can set the flash output from 1/128 power to 1/1 full output in 1/3 increments. Set flash output power with dial selector. Turn left to reduce setting parameter, and turn right to increase setting parameter

### MULT

Mult Flash Mode. Mult flash mode can make one image displays as a serial continuous moving image. Under  $\ensuremath{\mathsf{Mult}}$  flash mode, you can set flash output power, flash times and flash frequency.

X Mult frequency can set as 1-500 Hz. Frequency setting is subject to camera. Some cameras do not support higher frequency \* To avoid the damage of flash head due to overheating, do not use Mult flash shooting over 10 times. After 10



- 13-

- 15 -

channels from "A" "B" "C" and pressing the OK button to

# LED Light

USB Port

PC Port

It's applied to connect camera with SYNC cable or trigger flash. PUSH Reflect Lock Release Button

Reflector

eyes and create a more vivid expression. When using, pull out the reflector and wide panel together, and

## Wide Panel

## Support Camera External Flash Menu Control

cameras equipped with flash setting menu)

## Wireless Flash Control

[ 22 ] Optical transmission mode: i 🕅 i FSK2.4Hz

Optical Transmission Control

xcontinuous flashes, allow a rest time of the flash at least

{If you fire more than 10 continuous flashes, the safety function may activate and restrict flash firing. If this happens, please allow a rest time of the flash at least

The LED light which equipped with X900 Speedlite is controlled by one switch separately with its own circuit design. It has no effect on Speedlite, one light can be used in many way

It's applied to upgrade the firmware. You can download the newest firmware from Pixel website. Website: www.pixelhk.com

By pressing this button, the flash head can be adjusted to up/down and left/right. Up/down ward angle -7 to 90 degree left/right angle 180 degree.

Using the reflector enables you to reflect light in a person's

push back the wide panel. Then you may use the reflector.

Using wide panel, flash coverage range will enlarge. When using, pull out the reflector with wide panel together, and push back reflector. Then you may use the wide panel.

X900 speedlite can control flash mode, output power sure compensation, FEB, focus, sync mode and other functions via camera flash settings menu. (Only for

While controlling exposure compensation on X900 speedlite via While controlling exposure compensation on Asub speedlite via camera flash setting menu, the exposure compensation value should set as 0 EV, or you may not be able to set camera exposu compensation. When flash LCD screen shows CAM, it means camera output exposure compensation. When flash LCD screen shows LAMP, it means flash output exposure compensation.

X900 is equipped with optical transmission flash control and radio transmission flash control function.

X900 speedlite supports optical transmission flash

\_ 7 \_



0.0EV auto SET 💿 MaSter CH 01 💷 🕪







One year warranty from the day of purchase. Please kindly

instruction manual. If you have any questions, please contact your local dealer or visit http://www.pixelhk.com

The instruction manual is updated June 27, 2016. For information on the compatibility with accessories marketed after this date, please contact Pixel's dealer for

control function. The speedlite mounted on the camera can transmit signal via optical pulse to control firing remotely. When using wireless flash mode, the speedlite mounted on the camera should set as Master optical transmis-sion flash is achieved by optical pulse, not wireless signal transmission, so the transmissior distance is very short. Please note the following issues

when using: . Make sure the slave unit within effective control range

- when using optical transmission flash mode; 2. The receiving signal sensor of slave unit should face to master unit;
- 3. You are required to use flashes that are equipped with an optical transmission wireless shooting function:
- . Please do not place any obstacles between the master unit and salve unit when using optical transmission flash mode, or it may affect optical signal transmission;
- 5. Under optical transmission flash mode, use ETTL flash and M flash support high speed sync (HSS) and 1st curtain sync. When using MULT flash, it supports 1st curtain sync

Optical Transmission Flash Function Parameter

Transmission Method: Optical pulse Mode Control: Master/Slave,S1/S2

Channel Control: 1-4 channels Group Control: 3 groups (A/B/C)

Transmission Distance: about 0.7-10m Horizontal: ±40°; Vertical: ±30° (facing to master unit) Flash Ratio Control: 1:8-1:1-8:1 Sync Mode: HSS, 1st curtain sync

Optical Transmission Flash Control Operation Introduction

Press and hold \*RMOT button to enter wireless flash master mode; after entered wireless flash mode, press and hold SET RMOT button to enter wireless flash Slave ode. Press and hold again to exit wireless flash mode

Optical Transmission mode can set Master/Slave group control, channel control, Master flash On/Of

- 1. Master/Slave Mode Setting
- Master Mode Setting: press and hold \*RMOT button to enter wireless flash control mode. Gently press this button again and then turn dial selector to select optical transmission mode[ 22]. If this mode is already displayed after entered wireless flash control interface, then there is no need to make setting. When using optical transmission flash, the speedlite mounted on the camera should set as this mode.

Slave Mode Setting: after entered wireless flash mode, press and hold SET\*RMOT to enter Slave mode [SL]. Gently press SET\*RMOT button again and then turn dial selector to select Slave optical transmission mode [ $[\alpha]$ ] If this mode is already displayed on the interface after entered slave mode, then there is no need to make

setting. 2. Group Control Setting After entered wireless flash Master mode, continuous

— 8 —

## FCC STATEMENT :

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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

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.

Website: www. Pixelhk.com.cn

Product Standard: Q/PSKJ004-2016

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.

Manufacturer: Shenzhen Pixel Technology Limited Address: Rm1411, AAA Building, Renmin Road, Longhua District, Shenzhen City. TEL: 400-8084899



PSM154177 V10.01