



# Qflash<sup>®</sup> CoPilot

## QF91C (Canon)

## QF91N (Nikon)

### Shoe Mount Wireless Radio Commander for Qflash 5d-R and TRIO

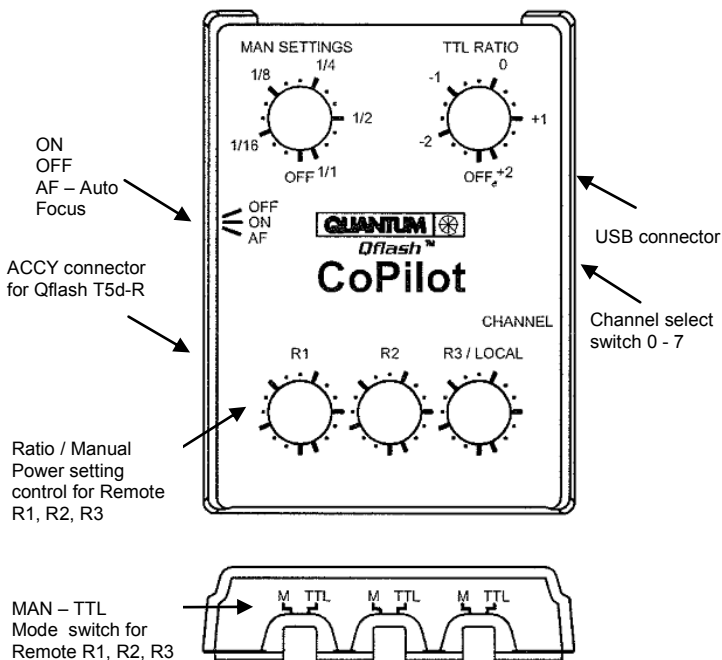
### Operating Instructions

**IMPORTANT – CAUTION**  
 Changes or modifications to this equipment could void your authority to use this product under the equipment authorization granted by the regulating agencies



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## 1 Introduction

Mount CoPilot to your camera hot shoe for simple, reliable wireless control of remote flash units: CoPilot QF91N for Nikon, QF91C for Canon.

CoPilot sends camera TTL signals to remote flashes to set and adjust multi-flash lighting right from your camera position. CoPilot's radio wireless system works up to 300' (100m) using the reliable FreeXwire system.

CoPilot controls the exposure of up to three independent Remote Groups of flash units.

A Remote Group can consist of :

- Quantum Trio
- and / or
- Qflash T5d-R with an FW8R or FW7Q receiver
- and / or
- Any non Quantum flash that can be triggered by a sync signal, with A FreeXwire receiver.

A Remote Group may consist of any number of remote flash units. Each Remoter Group receives its individual exposure setting according to the setting on CoPilot mounted to your camera's hot shoe.

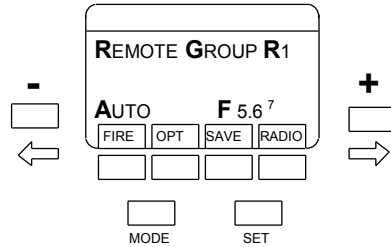
## 2 Setting up the Remote Groups

Remote Group are designated **R1**, **R2**, and **R3**. Remote Groups can consist of any of the following:

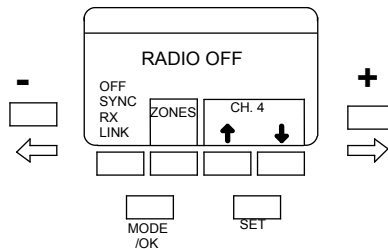
- Quantum Trio set to **Remote Group R1, R2, R3**
- Qflash T5d-R set to **Wireless Group R1, R2**. When used with A FreeXwire FW8R or FW7Q receiver.
- Any non Quantum flash connected to a FreeXwire FW8R or FW10w.

### 2.1 Set up a Quantum Trio as a remote flash

On Trio, press the Mode button, on the Trio, then use the Left or Right arrow buttons to select **Wireless Remote Group**. Press one of the soft keys (under the display) to choose **R1, R2, or R3**.



Press the **RADIO** softkey to set the channel. There are eight channels available, 0 through 7. All remote flash units must be set to the same channel number.



NOTE: There is no need to set the **ZONES** when using **Wireless Remote Groups** with the **Trio**.

### 2.2 Set up a Qflash T5d-R as a remote flash

Qflash T5s do not have internal radios. Connect a FreeXwire FW8R or FW7Q for remote control via CoPilot.

On Qflash T5, press the Mode button, then use the Up or Down buttons to select **Wireless Remote Group 1** or **Wireless Remote Group 2**.

**WIRELESS GROUP R1**  
 TO ACTIVATE CONTROL FROM  
 LOCAL QFLASH TURN LOCAL  
 QFLASH OFF THEN ON

The Qflash T5d-R may display a message that it needs a signal from the Local flash to activate this mode. The message will disappear when you set up the CoPilot

Set the channel on the FW8R or FW7Q. There are eight channels available, 0 through 7. Set the same channel for all remote flash units.

NOTE: On the FreeXwire receiver, set all zones to **ON**.

### 2.3 Using a Non Quantum flash as a remote

Connect a flash unit to a FW8 or FW10w receiver. Set the channel on the receiver to the same channel set on CoPilot (Section 3).

Use the **ZONE** switches to select the remote group. Zone 1 **ON** = Remote Group R1, Zone 2 **ON** = Remote Group R2, Zone 3 **ON** = Remote Group R3.

NOTE: When using a non Quantum flash the CoPilot will provide a sync signal to fire the flash, but will not control the exposure. The MAN-TTL mode switch on CoPilot for this Group must be set to **M**.

### 3 CoPilot setup

The CoPilot can control the exposure of three Remote Groups (**R1**, **R2**, and **R3**) or two Remote Groups (**R1**, **R2**) and a local Qflash T5d-R.

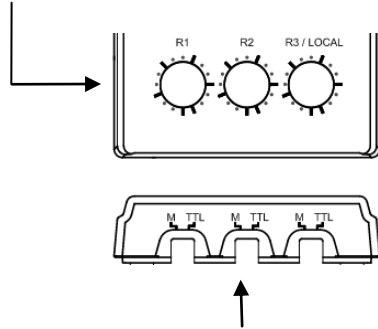
A Remote Group can consist of any flash set up as described in Sections 2.1, 2.2 or 2.3.

#### 3.1 No Local Qflash T5d-R connected

When no local flash is connected to the CoPilot ACCY connector, up to three remote groups may be set up, each with its own exposure setting.

Each Remote Group has two controls.

**RATIO / MANUAL POWER SETTINGS** – this sets the exposure mode of the Remote Group. Ratio settings can be set from  $-2^7$  to  $+2$ . Manual power settings can be set from 1/16- to 1/1. This control also has an **OFF** position. When set in the **OFF** position the flash in the Remote Group will not fire.



**MODE** switch – this control sets the mode of the Remote Group to **M** (manual) or **TTL**

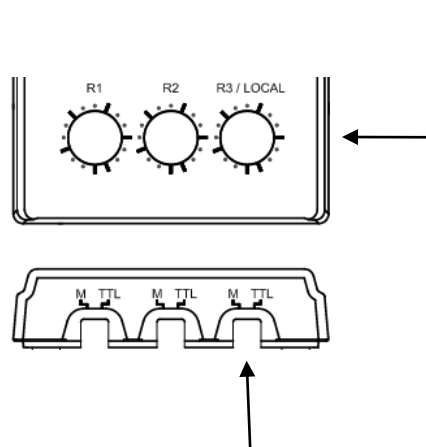
Note : When using a non Quantum flash as a Remote Group set the **MODE** switch to **M**. Only a sync signal will be sent to the flash.

#### 3.2 Local Qflash connected

When a Qflash is connected to the CoPilot ACCY connector, Group R3 becomes the Local ratio control. A Local Qflash may be models QFT5-dR, QF4Td, QF3d, or QF2d.

Remotes will operate in Groups **R1**, **R2** only.

**RATIO / MANUAL POWER SETTINGS** – this control adjusts the ratio of the local Qflash when the Qflash is in **QTTL** mode. Ratio settings can be set from  $-2^7$  to  $+2$ .



**MODE** switch – this control is disabled when a Qflash T5d-R is connected to the CoPilot. The **MODE** button on the local Qflash T5d-R overrides the mode setting.



## **Qflash<sup>®</sup> CoPilot QF91**

### **FCC and Industry Canada compliance statements**

Conformite aux normes FCC Cet equipement a ete teste et trouve conforme aux limites pour un dispositif numerique de classe B, conformement a la Partie 15 des reglements de la FCC. Ces limites sont con cues pour fournir une protection raisonnable contre les interferences nuisibles dans une installation residentielle.

Cet equipement genere, utilise et peut emettre des frequences radio et, s'il n'est pas installe et utilise conformement ment aux instructions du fabricant, peut causer des interferences nuisibles aux communications radio.

Rien ne garantit cependant que l'interference ne se produira pas dans une installation particuliere. Si cet equipement provoque des interferences nuisibles a la reception radio ou de television, qui peut etre determine en comparant et en l'eteignant, l'utilisateur est encourage a essayer de corriger les interference par une ou plusieurs des mesures suivantes:

- Reorienter ou deplacer l'antenne de reception.
- Augmenter la distance entre l'equipement et le recepteur.
- Branchez l'appareil dans une prise sur un circuit different de celui auquel le recepteur est connecte.
- Consultez votre revendeur ou un technicien radio / TV pour assistance. Avertissement

Les changements ou modifications a cet appareil sans expressement approuvee par la partie responsable de conformite pourraient annuler l'autorite de l'utilisateur de faire fonctionner cet equipement.

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

### **Industry Canada Statement**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme avec Industrie Canada exempt de licence Rss standard(s).

Son fonctionnement est soumis aux deux conditions suivantes :

- (1) cet appareil ne peut causer d'interferences, et
- (2) cet appareil doit accepter toute interference, y compris des interferences qui peuvent provoquer un fonctionnement indésirable du peripherique.

The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population: consult Safety Code 6, obtainable from Health Canada's website [www.hc-sc.gc.ca/rp/b](http://www.hc-sc.gc.ca/rp/b).