



Quantum Qflash “3d-R” Series Digital Flash

New Features for Models QFT3d-R and QFX3d-R

Introduction

The 3d-R update contains all the features of QF2d and adds new wireless features that were previously exclusive to the 5d and 5d-R series Qflash. These features include the new Wireless Preflash TTL and Wireless Auto Fill modes which, provide seamless wireless integration with most popular digital cameras. Also included are the remote modes Wireless Group R1 and R2 that provide wireless TTL ratio abilities and allow full wireless control from a 5d-R. The following pages contain *changes* and *additions* to Qflash models T2 / T2d operating instructions.

If your Qflash was upgraded from a QF2 (non digital) to a QF3d-R, sections 1 and 2 cover some basic features that were changed.

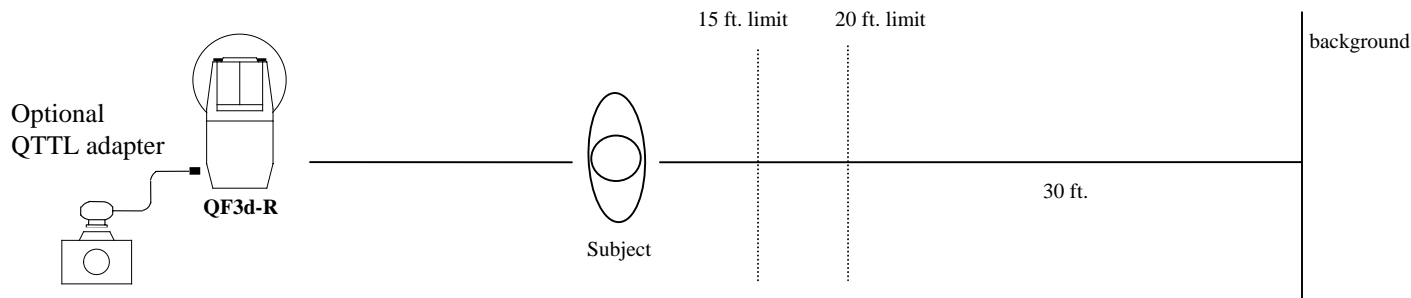
If your Qflash was upgraded from a QF2d to a QF3d-R, section 3 covers the new wireless features.

1.0 Basic expanded features

1.1 Auto sensor limit

Auto sensor limit is an option that limits the distance that the sensor “sees” when Qflash is in Auto mode. If the subject has no background (an open field outside) or the background is far away (a large catering hall), the sensor tries to balance the light from the subject with the lack of light coming from the background. The result is an over exposed subject.

For example, here is a typical problem shot for an automatic flash. ISO 400, automatic F8, range 4.5 – 40 Ft.



By limiting the sensor distance, the sensor will focus only on the subjects that are *within* the sensor limit. It will no longer try to balance the light from a far background and near subject.

To Set the Sensor Limit

Push the **Option** button once. Press **Set**. The sensor limit will blink in the LCD display inside brackets. Use **UP / Down** buttons to change the sensor limit. The available limits are: Mx (no limit), 15 Ft, 10 Ft, and 5 Ft

The limit will now appear in brackets as the maximum flash distance in the Auto mode display. Example: if the limit is set to 15 feet then the maximum flash distance will be shown as [15] F_t in the Auto mode display.

Exposure indicators with the Auto Sensor limit

When the sensor limit is selected, the available exposure indicators are “**Over**”, “**OK**” and “**Limt**”. “**Limt**” means that the flash has restricted the amount of light due to the sensor limit that has been set. “**Undr**” will no longer appear on the display when Sensor Limit is activated.

Quick turn off feature of the Sensor Limit

When shooting it may become necessary to quickly turn the Auto sensor limit ON or OFF.

Push **Option** button once. The sensor limit will blink.

Press the **UP / Down** button and the sensor limit will change to Mx if a limit was previously set. To return to the previous limit from the Mx setting, press the **UP / Down** button.

Continued pushing on the **UP / Down** buttons will cause the sensor limit to scroll through the available settings.

1.2 Quick disable

If you are using Qflash as an on-camera flash and want to disable the flash for a few shots you can use the “quick disable” feature.

To activate the “quick disable” feature:

Press **Mode** button twice. The word ‘OFF’ will appear in the display.

To return to normal operation press any button, except the TEST button.

Note: This feature will only prevent the flash from firing, it will not turn off Qflash or the Turbo. To completely turn off Qflash, Turbo must be turned off.

1.3 Audible warnings

Qflash will beep for the following conditions:

Check Turbo - one long beep.

Flash ready - one short beep.

Over exposure - three short beeps.

Under exposure - three short beeps.

Sensor limit - three short beeps.

1.4 Program mode

The number of Qflash set-ups that can be saved has been increased from four to eight.

1.5 Changes to the display

The F numbers displayed in Qflash T2/X2 are shown in a third of a stop increments, where (+) represents +1/3 and (-) is -1/3. The F numbers displayed on Qflash T2D and X2D are also in a third of a stop increments, but are shown with a **(3)** for +1/3 and **(7)** for +2/3.

Example: Qflash T2	F8.0	F8.0+	F11-	F11	F11+
Qflash T2D	F8.0	F8.0 ³	F8.0 ⁷	F11	F11 ³

1.6 Linking multiple Qflashes

One Qflash may be set up to control multiple remote Qflashes by linking them through the Accessory connector using QF50, QF51, and QF52 cables. This is described in Section 8 of the Qflash T2 instructions.

When a Qflash T2D or X2D is connected to another Qflash, the display shows “**Linked**”. (Note that older Qflash T and T2 models display “Slave”).

Qflashes can also be linked wirelessly by using FreeWire Digital Transceivers. It will then be possible to achieve wireless TTL (with appropriate QTTL adapters) or wireless Auto flash modes (one Qflash controlling remote Qflash’s exposure). See the FreeWire instructions.

2.0 QTTL adapter features

2.1 Rear curtain sync

The QTTL adapter will allow flash synchronization with the rear curtain, if this feature is supported by your camera.

2.2 Focus assist

An infrared focus assist light will come on to aid auto focus cameras.

2.3 Manual Mode

The F number and film speed in the display are taken from the camera, and can not be adjusted with the push buttons on the Qflash.

2.4 A. Fill Mode (Auto Fill replaces Auto)

Auto Fill mode can support fill flash ratio control for cameras that don't support any flash compensation. Auto Fill works like a dedicated TTL flash adapter, however, the Qflash controls the exposure, not the camera. Many photographers find that digital cameras exposures are more consistent with the Auto Fill mode than they are with the camera's pre-flash metering mode.

The F number and film speed in the display are taken from the camera, and cannot be adjusted with the push buttons on the Qflash. The dial located on top of the QTTL adapter is used to adjust the output of the flash relative to the aperture. This can be set from -3 to +2 stops in 1/3 stop increments.

For example if the aperture is set for F8.0 on the camera and the ratio dial on the TTL adapter is set for -1, the Qflash will adjust it's output for F5.6. As the aperture is changed to match lighting conditions, the Qflash will "track" the camera and will always remain -1 stop from the aperture on the camera.

Qflash will monitor the amount of fill light you have selected and give an error indication if the setting is out of the range of the Qflash. The error indications are:

“ERROR – Decrease fill flash or F#”

For example, the camera is set to F16 and fill flash on the QTTL adapter is set to +2 stops. Either decrease the F# on the camera or decrease the fill flash ratio on the QTTL adapter.

“ERROR – Increase fill flash or F#”

For example, the camera is set to F4.0 and fill flash is set to -3 stops. Increase the F# on the camera or increase the fill flash ratio on the QTTL adapter.

2.5 QTTL Mode: (replaces TTL)

The F number and film speed in the display are taken from the camera, and cannot be adjusted with the push buttons on the Qflash. The dial located on top of the QTTL adapter is used for flash compensation (if supported by your camera).

The flash compensation can be adjusted from -3 to +2 stops in 1/3 stop increments. See “A. Fill” mode for error indications.

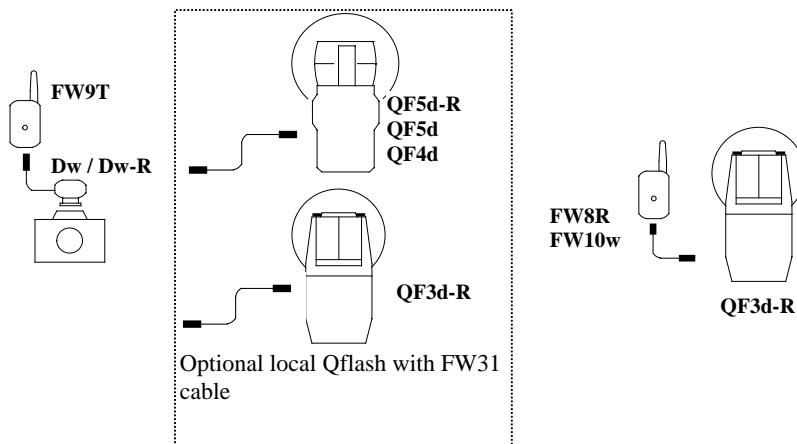
3.0 Added wireless features

The added wireless features are only available when the Qflash 3d-R is used as a remote flash, and connected to a FreeXWire FW8R / FW10w. Some modes of operation require a local Qflash.

3.1 Wireless Preflash TTL

Rdy W.TTL
Linked to local

This mode replaces the standard wired TTL mode when a FW8R or FW10w (set to RX) is connected.



If no local Qflash is used

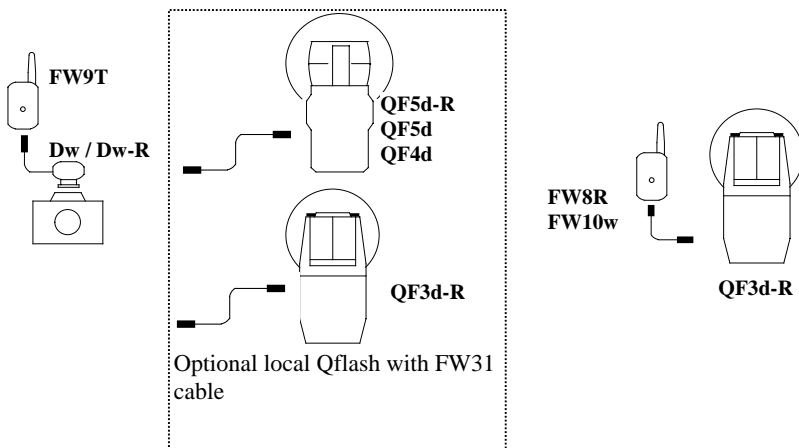
Exposure is controlled by the camera's on board TTL system. The flash output can be compensated by adjusting either the Fill ratio dial on the QTTL adapter or the camera's built in flash compensation(if available), however do not use both at the same time.

If a local Qflash is used

Exposure is controlled by the local Qflash. The local Qflash can be set to Man, Auto or QTTL mode.

3.2 Wireless Auto Fill

Rdy W.Auto Fill
F2.8⁷ N5.0-45Ft



In Wireless Auto Fill, the Qflash will track the camera settings automatically and use its built in light sensor to control exposure. The Fill ratio dial on the QTTL adapter can be used to fine tune exposure.

Note: Changing the fill flash ratio dial on the QTTL adapter changes the F# displayed on the Qflash.

Example – Camera aperture set to F5.6, Fill dial set to +1³, the Qflash will display 8.0³.

3.3 Wireless Group R1 and R2

Rdy W.Group R1
Man ^{iso}1000 1/16+

Rdy W.Group R2
Auto ^{iso}3200 F22⁷

Rdy W.Group R1
QTTLwR

Rdy W.Group R2
Linked to local

The Wireless Group R1 and R2 modes allow a 5d-R series flash to control the 3d-R wirelessly. All flash parameters in Wireless Group R1 and R2 modes are controlled remotely and a 5d-R series flash set to QTTLwR or Wireless Control mode is required to function.

The 3d-R must be placed into Wireless Group R1 or R2 before making changes through the Control Flash. Please refer to the 5d-R instruction manual for details on QTTLwR and Wireless Control modes.

Note: The 3d-R will not fire if the Control flash is set to “Off” in Wireless Control Mode and the Remote Group is set to “QTTLw”.

