



New features of Qflash T2 and X2 "Digital"

The new Qflash T2D and X2D "Digital" flashes provide expanded features over Qflash T2/X2. When operated with Quantum's new QTTL™ Dedicated Adapters, Qflash T2D and X2D are dedicated to the latest professional digital and film cameras.

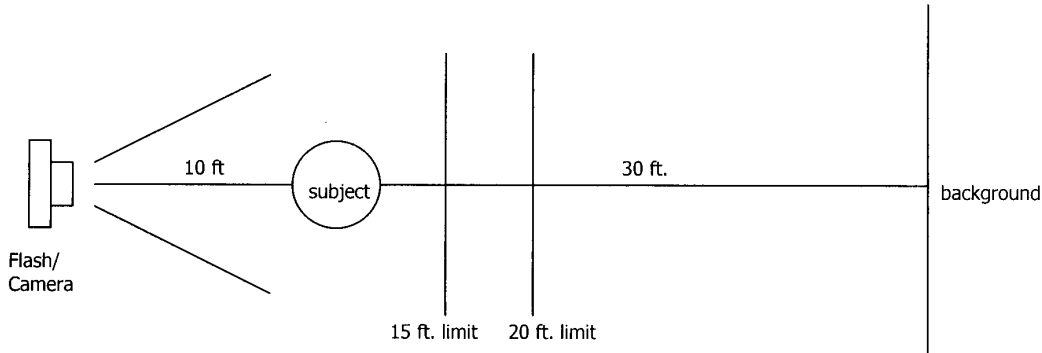
Other features have been added to the Basic operation of Qflash. The following pages contain *changes* and *additions* to Qflash model T2 and X2 operating instructions.

1. 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 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.

Setting and Changing the Sensor Limit

Press the **Option** button once. The display shows either Mx, for maximum distance (no limit), or else it shows a limit (see below). Pressing the Up [▲] or Down [▼] buttons toggle between Mx and a limit distance.

To change the limit distance:

Push the **Option** button once. Press **Set**. The sensor limit will blink in the LCD display inside brackets. Use Up [▲] and Down [▼] buttons to change the sensor limit. The available limits are:

<i>US units Display</i>	<i>Metric units Display</i>
[Mx] Ft	[Mx] M
[20] Ft	[7] M
[15] Ft	[5] M
[10] Ft	[3] M
[5] Ft	[2] M

Example: if the limit is set to 15 feet then the maximum flash distance will be shown as [15] Ft 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 "Limit". "Limit" 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 [▲] or 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 [▲] or Down [▼] button.

Continued pushing on the Up (▲) or 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.

You can also disable the flash by pressing MODE, then press the UP [▲] or DOWN [▼] buttons until the display shows "OFF". To re-enable Qflash press any button except the TEST [↻] button.

1.3 Check Turbo Warning

Qflash will indicate a "Check Turbo" warning with a **single long beep**. The other audible indicators are a beep for flash ready, and three short beeps for over / under / limit exposure.

1.4 Program mode.

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

1.5 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 and QTTL instructions.

2. Changes to the display

The F numbers displayed in Qflash T2/X2 are shown in third stops, where (+) represents +1/3 and (-) is -1/3. The F numbers displayed on Qflash T2D and X2D are also in third stops, 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 F8.0³ F8.0⁷ F11 F11³

3. QTTL adapter features

3.1 Rear curtain sync

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

3.2 Focus assist

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

4. Changes to Basic Qflash operation when using a QTTL adapter

4.1 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 flash.

4.2 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, except exposure is controlled by Qflash instead of 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.

The F number and film speed in the display are taken from the camera, and cannot be adjusted with the push buttons on 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 and the ratio dial set for -1, the flash will adjust it's output for F5.6. As the aperture is changed as lighting conditions change the flash will "track" the camera and will always remain -1 stop from the aperture.

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 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 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.

4.3 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 flash. 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.