



## D/Dw series QTTL<sup>®</sup> ADAPTER INSTRUCTIONS

### For use with Quantum Qflashes and popular digital and film cameras

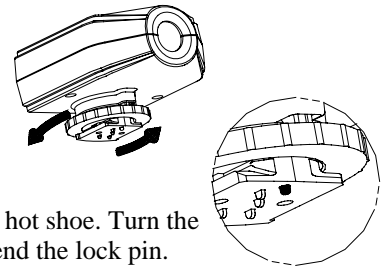
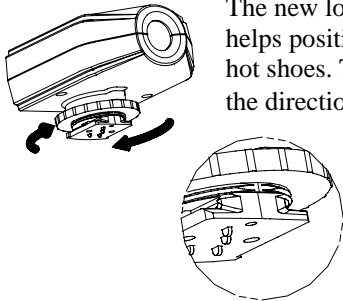
Quantum's D and Dw series QTTL Adapters provide new dedicated features for popular professional digital and film cameras used with Quantum's "Digital" Qflashes (series 2d, 4d, and 5d). For a list of available QTTL Adapters and the cameras compatible with them, see the separate QTTL-Camera Compatibility Chart. Also check the Quantum website [www.qtm.com](http://www.qtm.com), for the latest additions and updates to the list.

### 1.0 Connecting a Dw series QTTL Adapter

Always turn the Qflash and camera power **off** when connecting or disconnecting a QTTL adapter. **Do not use a sync cord. Qflash will get a sync from the QTTL Adapter.**

#### Releasing the QTTL Adapter

The new locking feature for QTTL Adapters helps position and lock these adapters in camera hot shoes. To retract the lock pin, turn the ring in the direction of the arrows.



#### Mounting the QTTL Adapter

Slide the QTTL Adapter into the camera hot shoe. Turn the ring in the direction of the arrows to extend the lock pin. Before tightening the ring, move the Adapter slightly to assure that the lock pin falls into the locating hole of the hot shoe. It is no longer necessary to tighten down the ring to secure the QTTL Adapter -- as soon as you feel resistance, stop -- the lock pin will keep the Adapter in place.

### 2.0 General Operation

#### Flash Ready and Flash Sync Speed

Flash readiness is established when the "Rdy" indicator appears in the Qflash display. If flash readiness is supported by the camera, then an LED or flash symbol will appear in the viewfinder when the flash is ready. Many cameras will automatically switch the shutter to the camera pre-defined flash sync speed.

Check your camera's manual to see if it supports flash sync speed control. If it does not, then set the shutter speed at or below the maximum flash sync speed recommended in the camera manual.

#### Exposure Indicators

In the TTL, Auto, and A.Fill modes, Qflash provides **OVER**, **UNDR**, or **OK** exposure information. An audible signal can also be programmed on Qflash.

#### Rear Curtain Sync

If supported by your camera, the QTTL Adapter can fire the flash with the rear curtain. Rear curtain sync is selected with the switch located on the back of the QTTL Adapter. Set it to "R" for rear curtain, or "F" for front curtain. For some cameras rear curtain is controlled through a menu on the camera itself. For these cameras leave the switch in the "F" position. Consult your camera's manual.

#### Auto Focus Assist

The D/Dw series QTTL Adapters will project a beam whenever the camera is having difficulty focusing due to low light conditions. A local Qflash must be connected for this feature. Turn the auto focus assist switch of the QTTL Adapter to **on** (☀).

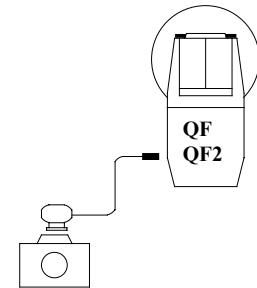
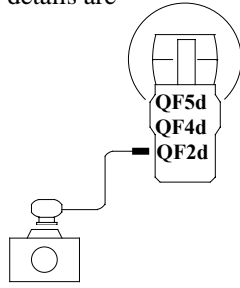
Always turn the auto focus assist switch **off** (●) under any of the following conditions:

- When no Qflash is connected;
- When using Qflash models, T, T2, X or X2. These models do not support auto focus assist;
- When using a QF50 or QF51 extension cables.

If the auto focus switch is not turned off for the above conditions, proper operation cannot be assured.

### 3.0 Qflash operating modes - *for direct camera connection*

These instructions apply to Qflashes connected by D/Dw series QTTL Adapter to a camera. Multiple Qflashes may be linked via the Accessory sockets. Additional operating details are available in the Qflash manual.



Qflash Mode	Qflash T2d, X2d, T4d, X4d, T5d, X5d	Qflash T, X, T2, X2
<b>3.1 Man</b>	Aperture and the film speed are set on Qflash by the camera. Set the desired power setting on the Qflash corresponding to the distance to your subject.	Set the film speed and desired power setting on the Qflash. The QTTL adapter will function as a sync cord
<b>3.2 Auto</b>	If camera is capable of two way communication <b>Auto</b> will change to <b>A.Fill / Auto Fill</b> , when shutter is pressed ½ way.	Set Qflash film speed the same as on the camera. Set Qflash aperture to the desired f/#. The QTTL adapter will function as a sync cord.
<b>3.3 A.Fill /Auto Fill</b>	<p>The <b>A.Fill</b> mode adds fill capability for cameras that do not support TTL ratio control. Also, some photographers prefer A.Fill for more control over exposures than is possible with camera-controlled TTL mode.</p> <p>Aperture and the film speed are set by the camera and cannot be changed on Qflash. Set the desired fill flash ratio using the “<b>↗ Fill</b>” control on the adapter. You may choose a setting from -3 stops below the cameras aperture to +2 stops above the cameras aperture in 1/3 stop increments.</p> <p>Light output is controlled by the <b>Qflash sensor</b> which will display an indication if the setting is out of range of the flash. The error indicators are:</p> <p><b>ERROR – Decrease fill flash or F#</b> -- For example the camera is set to F16 and the fill switch is set to +2. Either decrease the F# on the camera or decrease the fill flash ratio on the QTTL Adapter.</p> <p><b>ERROR – Increase fill flash or F#</b> -- For example the camera is set to F4.0 and the fill switch is set to -3. Either increase the F# on the camera or increase the fill flash ratio on the QTTL Adapter.</p>	<p><b>A.Fill</b> is not supported by these Qflashes (QF2 series can be upgraded to QF2d)</p>
<b>3.4 TTL</b>	If the camera is capable of two way communication <b>TTL</b> will change to <b>QTTL</b> , when shutter is pressed ½ way (See QTTL mode below). Camera controls exposure.	Fill flash amount is set by using the “ <b>↗ Fill</b> ” switch located on the top of the QTTL Adapter. You may choose a setting from -3 stops below the cameras aperture to +2 stops above the cameras aperture in 1/3 stop increments. Light output is controlled by the sensor in the <b>camera</b> .
<b>3.5 QTTL</b>	<p><b>QTTL</b> mode works with camera TTL or pre-flash evaluative metering. Set fill flash amount using the “<b>↗ Fill</b>” switch located on the top of the adapter. You may choose a setting from -3 stops below the cameras aperture to +2 stops above the cameras aperture in 1/3 stop increments. Light output is controlled by the sensor in the <b>camera</b>.</p> <p>The Qflash will monitor exposure. See <b>A.Fill</b> mode for the error indications.</p>	<p>Pre-flash metering is not supported by these Qflash models.</p> <p>(QF2 series can be upgraded to QF2d)</p>

## 4.0 Wireless Qflash operation with FreeXWire

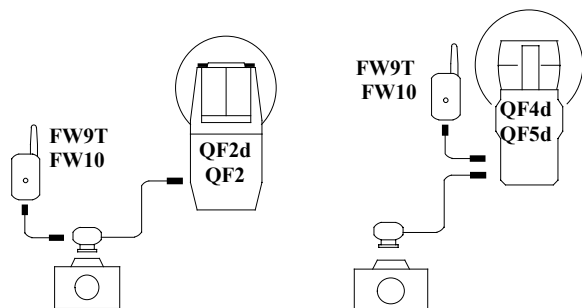
Section 4 applies to Qflashes linked wirelessly via FreeXWires to QTTL Adapters. FreeXWire FW10 may be upgraded to FW10w to provide most of the features of FreeXWires FW7Q, FW8R, and FW9T. FW10w must be connected to a local Qflash when used as a transmitter. For conversion of FW10 to FW10w, please contact Customer Service at Quantum.

Set the TTL option ON for Transmitter FW9T. Set Range to NORM for Receivers FW8R or FW7Q. Additional setup details are available in the FreeXWire and Qflash manuals.

### 4.1 Using the A.Fill (Auto Fill) / Auto mode

This mode requires an on-camera Quantum Qflash. Light output is controlled by the sensor of the on-camera Qflash.

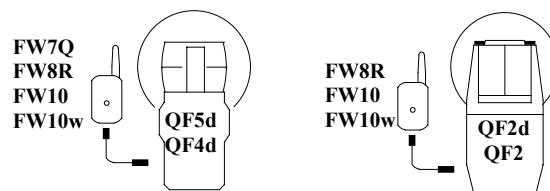
#### On-camera flash set up



Install the QTTL Adapter onto the hot shoe of the camera. Connect the cord from the QTTL Adapter to the bottom of the FreeXWire. Use an FW32 accessory cord to connect a local on-camera Qflash to the QTTL Adapter.

Set Qflash mode to **Auto** or **A.Fill**. If **A.Fill** appears on the Qflash display, you can use the “**Fill**” switch on the QTTL Adapter to set the fill-flash ratio. If **Auto** appears on Qflash you must set the f/# and film speed manually.

#### Remote flash set up

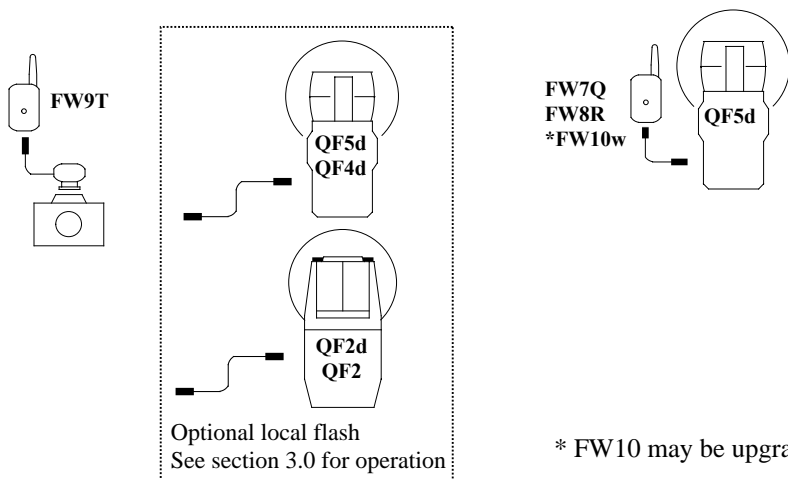


**QF5d / QF4d / QF2d / QF2:**  
Set flash to **TTL** mode. Light output is controlled by on camera Qflash

### 4.2 Using the Wireless Remote Auto mode - with or without an on-camera Qflash.

With this mode the sensors of a remote Qflashes control their own exposure. However, the F number and film settings of the camera are sent wirelessly to the remote Qflashes. As these settings change on the camera, they change on the remote Qflashes. Some cameras do not support Wireless Remote Auto. Please refer to the QTTL-Camera Compatibility Chart.

An on-camera Qflash is optional and may operate in any mode in Section 3.0. It's exposure can be set independently of the remote Qflashes.



Set the remote Qflash to “**Wireless Remote 1 or 2**” mode. When the flash receives the wireless signal from the camera the flash will enter the **Wireless Remote (1 or 2) Auto** mode. As the F number or ISO on the camera is changed the information will be sent to the Remote Qflashes.

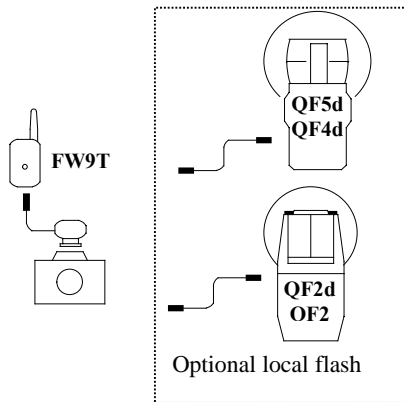
Note: When using the Fill switch located on the Dw adapter the f/# displayed on the remote Qflash will be the result of the camera's setting and the Fill switch. Example: Camera set to f/11, Fill switch set to -1, remote Qflash will display f/8.0

\* FW10 may be upgraded to FW10w. Contact Quantum Customer Service.

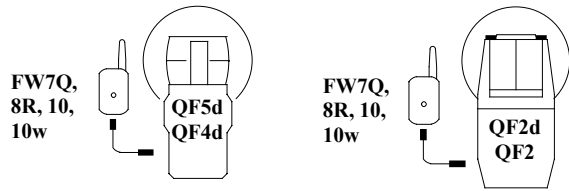
### 4.3 Wireless QTTL and TTL modes - for non pre-flash cameras

This mode is used for film (and a few digital) cameras that do not use pre-flash evaluative metering. An on-camera flash is optional. The camera controls exposure, and the Fill control of the QTTL Adapter function as in Section 3.4 and 3.5.

#### Camera set up



#### Remote Qflash set up



**QF5d / QF4d / QF2d / QF2:**  
Set flash to **TTL** mode. Light output is controlled by camera

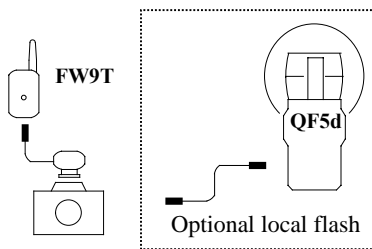
**QF2:** Set the Qflash to **TTL** mode as described in Section 3.4

**QF5d / QF4d / QF2d:** Set flash to **TTL** mode as described in Section 3.5

### 4.4 Wireless QTTLw mode -- for digital cameras with pre flash evaluative metering

Qflash 5d series are required, and a local on-camera Qflash is optional. The camera controls exposure, and the Fill control of the QTTL Adapter function as in Section 3.5. \*FW10 may be upgraded to FW10w. Qflash 4d can be upgraded to Qflash 5d. Please contact Quantum Customer Service.

#### Camera set up

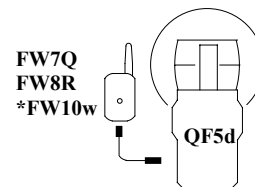


**QF5d:**

Set flash to **TTL** mode. Press shutter 1/2 way. When flash establishes communication with camera and FreeXWire **QTTLw** will appear on the display.

See Section 3.5 for setting fill-flash ratio.

#### Off camera flash set up



**QF5d:**

Set flash to **TTL** mode.

When flash establishes communication with camera and FreeXWire, **QTTLw** will appear on the display. This may not occur until after the shutter is fully depressed. Light is controlled by camera and QTTL Adapter setting.

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