TTL ADAPTER INSTRUCTIONS

For use with Quantum® Qflash®

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Always turn the Battery Power Pack OFF when connecting or disconnecting an adaptor to the Qflash or camera.
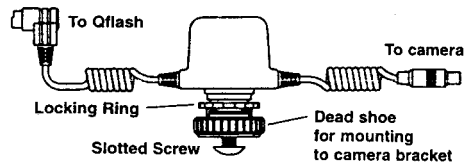
1.0 CAMERA AND ADAPTER CAPABILITIES

The Quantum QFlash TTL adapter supports the following camera functions:
- Flash ready indicator
- Shutter speed control
- TTL flash control

TTL ADAPTER MODELS QF10–QF18

To Qflash
Locking Ring
Hot shoe mount
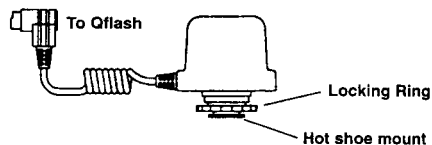
TTL ADAPTER MODELS QF19, QF20 AND QF22

To Qflash
To camera
Locking Ring
Slotted Screw
Dead shoe for mounting to camera bracket

2.0 Connecting the TTL Adapter to the Camera

Standard Setup: Slide the TTL adapter onto the hot shoe. The TTL adapter can be mounted onto the hot shoe in one direction only. Turn the locking ring on the TTL adapter to secure it to the camera. To remove, turn the locking ring in the opposite direction and slide the adapter off. Connect the TTL plug to the flash. See fig. 2.

For Hasselblad, and Bronica: Plug the adapter's 6-pin connector into the camera by first rotating it to the correct position and then pressing it into place. The connector is removed by gripping the metal section and withdrawing it straight out from the camera. A "dead" shoe mount and slotted screw are provided for mounting the adapter to a camera bracket. See fig. 3.

For Hasselblad: Connect a sync cord (provided) between the PC nipple on the camera lens and the TTL adapter.

For Mamiya 645 Pro TL: Plug the adapter's 6-pin connector into the camera by first rotating it to the correct position and then pressing it

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into place. The connector is removed by gripping the metal section and withdrawing it straight out from the camera.

When using a leaf shutter, mount the TTL adapter in the "dead" shoe provided, not in the camera's hot shoe. Connect a sync cord provided between the lens and Qflash. See Fig. 4. When using a focal plane shutter, mount the TTL adapter in the hot shoe – a separate sync cord is not needed.

3.0 GENERAL OPERATION

Ready light - Flash readiness is established when the "Rdy" indicator appears in the Qflash display. If the flash ready is supported by the camera, then an LED, or flash symbol will appear in the viewfinder when the flash is ready.
Shutter speed control - If flash readiness is achieved, the camera's automatic system switches the shutter speed to the flash sync speed.
Exposure indcators - in the TTL or Auto mode the Qflash provides over, under or OK exposure information.

4.0 QFLASH OPERATING MODES

"Auto" mode - Set the aperture and film speed the same for both the Qflash and the camera. (TTL adapter will function as a sync cord.)
"Man" (manual) mode - Set the desired aperture on the camera and the required power setting on the Qflash. (TTL adapter will function as a sync cord.)
TTL mode: Set the film speed on the camera. If the TTL adapter has a film speed setting, set it also to the desired speed. Next, refer to the table below:

camera operating mode	aperture	shutter speed
Aperture priority	desired setting	*camera sets shutter speed
Shutter priority	—	equal to or slower than flash sync speed
Manual	desired setting	equal to or slower than flash sync speed
Program	—	—

Note: Some cameras may not perform TTL flash control in some operating modes. See your camera instructions for details.

*If the Qflash is not ready, the camera will operate in the settings selected as if the flash was not connected.

5.0 SETTING FILL-FLASH RATIO CONTROL

It is possible to control the ratio of flash light to ambient as follows:
a) Set the camera to aperture priority automatic and Qflash to Auto. Set the same ISO film speed on both.
b) Set the Qflash F/# equal to, or less than, the camera's F/# setting.
c) The lighting ratio will be according to the table below:

Qflash F/stops below camera	Approx. ratio- flash ambient	Qflash F/stops below camera	Approx. ratio- flash ambient
0 (same setting)	1:1	1 2/3	1:3
1/3	1:1.3	2	1:4
2/3	1:1.5	3	1:8
1	1:2	4	1:16
1 1/3	1:2.5		

For example. set it the camera to F/8, set the Qflash to F/5.6. The light ratio will be 1:2

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CONNECTING THE TTL TO THE QFLASH "ACCY" JACK

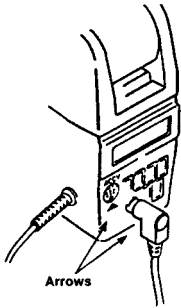**CAUTION: DO NOT FORCE**
Match the arrow on the plug to the "ACCY" Jack arrow on the Qflash. It may be necessary to turn the plug slightly to the right or left until you feel the plug seat before pushing the plug into place.
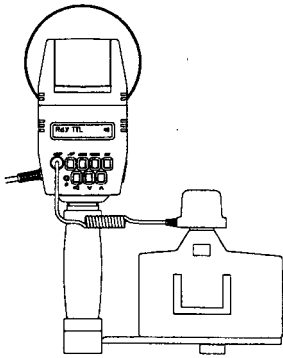
Arrows ' Fig. 1

TYPICAL MOUNTING CONFIGURATIONS:

Fig. 2
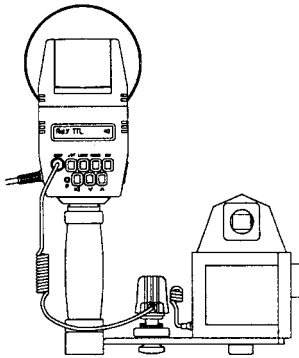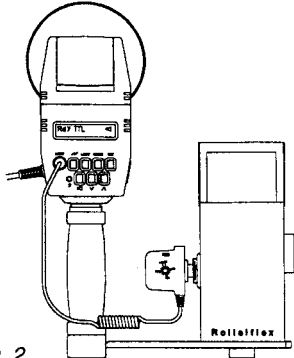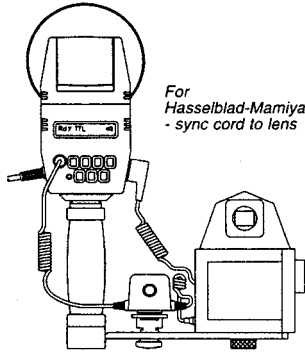
For
Hasselblad-Mamiya
- sync cord to lens

Fig. 3   Dead shoe   Fig. 4

The above items are shown mounted to Quantum's Quick-release "L" bracket, model QF70.

*Please note: Camera manufacturers may change specifications beyond our control. Some functions may not be available. Consult your camera's operating manual for details.

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CAMERA AND TTL ADAPTER COMPATIBILITY CHART

CAMERA MODEL	TTL MODEL

Broncia: ETRsi, SQAi *(Set the film speed on the TTL adapter)* QF20
Cannon: EOS-A2E, A2, A5, 1, 10, 10S, 1N, 100, 600, 620, 630, 650,
    700, 750, 850, 1000, 1000F, Rebel, Rebel S, RT, T90, Elan QF13N
Contax: RTS II, RTS III, MD137, MA137, 139, 159MM, 167MT QF15
    645 . . . . QF24
Hasselblad :(necessitano di un cava syncro separato) - 500ELX, 503CX, 503CXI,
    553ELX, 205TCC QF19
Leica: R5, RE, R6, R6-2, R7 . . . . QF16
    R8 . . . . QF23
Mamiya: 645 ProTL QF22
    645AF QF25
Minolta X: X700, X500, X570, CLE: Maxxum 5000, 7000, 9000 . . . . QF11
Minolta XI: Dynax & Maxxum - 3000i, 3700i, 5000i, 700i, 7000i, 8000i, 8700i,
    3xi, 5xi, 7xi, 9xi, SPxi QF14
Nikon: FA, FG, FE2, X2000, N2020, F301, F4, F4S, F401, F401S, N4004,
    F5, F501, F601, F601M, N6000, N6006, F801, N8008, N90 . . . . QF12
Olympus: OM-2, 2N, 2SP, 4, 40, 707, 77AF, 88, 101 . . . . QF10
Pentax: SFX, SFXn, SF1, SF7, SF10, Z1, PZ10, LX (with finder shoe),
    SuperA, 645 . . . . QF17
Practica: BX20 . . . . QF10
Rollei: SL2000f, 3001, 3003, SL66e, SL66x, SL66se, SL6006, 6002, 6003,
    6008, 2.8GX (Set the film speed on the TTL Adapter) QF18
    NOTE: To use a Radio Slave with a QF-18 TTL adapter. The PC Connector
    is very close to the hot shoe where the QF18 is mounted. This may make
    it difficult to connect a PC cord, for example when using Radio Slave.
    Please contact Quantum Instruments Customer Service Department at
    (516) 222-6000 with your Qflash serial no. if you experience a problem.
Rollei: 6008, "Integral" QF18
    The ISO switch on the QF18 will not function. (Set it to ISO 100 according
    to the camera's instruction manual). Instead, set the ISO on the 6008
    magazine. Optimum range is between ISO 25-400.
    The dedicated fill flash, set the camera to multi-zone metering mode.
    Set the exposure compensation switch #44 to between -1/3 and -3 EV.
    For additional information, see the Rollei instruction manual for "SCA-356"
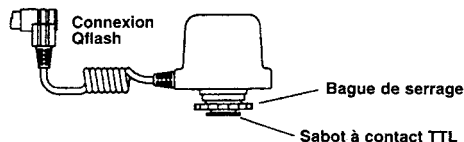   dedicated flash adapter.

FRANCAIS

Toujours éteindre la batterie (OFF) pour brancher ou débrancher l'adaptateur du boitier ou de la batterie.

1.0 ASSERVISSEMENTS POSSIBLES.

L'adaptateur TTL pour Qflash permet, sur l'appareil photo, les fonctions suivantes:
- témoin de recyclage
- contrôle de la vitesse d'obturation
- contrôle du TTL flash

ADAPTATEUR TTL QF10 à 18

Connexion Qflash
Bague de serrage
Sabot à contact TTL

ADAPTATEUR QF19, 20, et 22

Connexion Qflash
Connexion boîtier
Bague de serrage
Ecrou molete
Griffe porte accessoire