

QUICK AUTO 310



Summary

- Energy-saving, series-circuit type, system electronic flash unit. TTL AUTO (with OM-2 + Accessory Shoe 2), NORMAL AUTO (3 apertures) and MANUAL (2-stage output) can be instantly selected.

When the OLYMPUS Quick Auto 310 flash unit is linked to the OM-2 via the Accessory Shoe 2, it makes possible the entirely new TTL centralized Control Flash method. (TTL AUTO).

Main Characteristics

- Guide number 34 (ASA 100, m) or 55 (ASA 25, ft) at peak. The coverage angle is almost equal to the picture angle of a 24mm super wideangle lens.
- TTL AUTO: The Silicon Blue Cells of the OM-2 (TTL Direct Light Measuring System) work also as the flash-light sensor. The features of the system are; 1) ASA film speed and f/stop need not be set on the Quick Auto 310, 2) lens aperture is used continuously, 3) extensive working range—17cm~23m or 7in.~75 ft (F 1.2 lens, ASA 100), 4) auto macrophoto- and photomicro-flashphotography is possible, and 5) flash-light acceptance angle coincides with lens picture angle.

Notes • Related Units

- Four 1.5V "AA" batteries must be used. (Ni-Cd batteries may not be used.)
- Accessory Shoe 1 or 2 (for TTL AUTO with OM-2) must be mounted to the OM camera body (pp.311 & 312).
- Synchro Cord is necessary for a camera having no hot shoe and for off-camera flash operation (p.341).
- To perform NORMAL AUTO bounce flash, Bounce Grip (p.313) and Remote Sensor (p.331) are required with OM-1 (or other camera) + Accessory Shoe 1. For TTL AUTO bounce flash, Bounce Grip and TTL Auto Cord 0.6m (p.342) with OM-2 + Accessory Shoe 2.
- Lens Pouch 200 can also be used to hold the Quick Auto 310. (p.811)

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OM SYSTEM QUICK AUTO 310

● Flash Surface

● NORMAL AUTO Sensor Window

Measures light reflected from subject and automatically shuts off flash output when it has reached the proper amount for accurate exposure (NORMAL AUTO). Be careful not to cover the window during diffused flash use.

● NORMAL AUTO F-stop/ MANUAL GN Window

● ASA Window

● Auto Check Lamp

Flickers for approx. 5 seconds to indicate correct autoflash before (NORMAL AUTO) and after shooting (NORMAL AUTO and TTL AUTO).

● Test Button

Press to activate Auto Check Lamp for pre-shooting auto working range confirmation (NORMAL AUTO), or press for open flash.

● NORMAL AUTO Aperture Marks

Align Switch Dial Index to one of 3 symbols (F4, F5.6 and F8 at ASA100).

● Distance Scale Window

● Battery Chamber

Ni-Cd batteries may not be used.

● External Power Socket

Accepts output plug of Bounce Grip.

● Lock Knob

● Hot Shoe Mount

● TTL AUTO/NORMAL AUTO/ MANUAL Switch Dial Index

Being set at TTL AUTO mode.

● ASA Setting Button

● Ready/Charge Lamp

● Power Switch

● MANUAL Marks

HI-GN 34, LOW-GN 17 (ASA 100,m)

● Synchro Cord Socket

Accepts Synchro Cord (when using a camera having no hot shoe or for off-camera flash) or TTL Auto Cord 0.6m (for TTL AUTO).

Main specifications

Type: Energy-saving, series-circuit type-TTL automatic exposure.

Coverage angle: 50° vertical, 80° horizontal

Flash duration: 1/40,000—1/1,000sec.

Recycling time: 0.2-12sec. with AA Alkaline batteries

Flashes per set of AA Alkaline batteries: 100-over 400 on NORMAL and TTL AUTO modes.

Color temperature: 5,800°K

Connection to camera

Mechanical: clip-on type (via accessory shoe) or grip type (via Bounce Grip)

Electrical: Direct contact (hot shoe), or via Synchro

Cord or TTL Auto Cord 0.6m.

Dial setting: TTL AUTO/NORMAL AUTO/MANUAL rotating dial

TTL AUTO

Aperture setting: continuous, accords with aperture ring setting of camera-linked lens.

Working range: 0.25-23m (10 in.—75 ft.) at ASA 100 with F1.2 lens.

Bounce flash: Bounce Grip + TTL Auto Cord 0.6m.

NORMAL AUTO

Aperture setting: Choice of 3 apertures (F4, F5.6

and F8 at ASA 100)

NORMAL AUTO Sensor Acceptance Angle:

Approx. 20°

Working range: 0.5-8.5m (20 in.—28 ft.) at ASA 100.

Bounce Flash: Bounce Grip + Remote Sensor.

MANUAL flash guide numbers: HI-GN 34 (ASA 100, m) or 55 (ASA 25, ft); LOW-GN 17 (ASA100, m) or 27 (ASA 25, ft.)

Size & weight: 99 × 80 × 73mm, 330g without batteries (3 7/8 × 3 1/8 × 2. 7/8", 11.6 oz.)

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ELECTRONIC FLASH T32



Summary

- Series-circuit type system electronic flash unit. TTL AUTO (with OM-2N, OM-2), NORMAL AUTO (3 apertures) and MANUAL (2-stage output) can be instantly selected.
- Charge/Auto check lamp is visible both in the viewfinder (OM-2N, OM-1N, OM-10) and on the back of the T32.

T32 Flash photography (w/ Built-in bounce mechanism)

Camera	Selection of Mount	Flash Mode
OM-2N	Accessory Shoe 4	● TTL Auto ● Normal Auto ● Manual
OM-1N	Accessory Shoe 4	● Normal Auto ● Manual
OM-10	Built on the camera	● Normal Auto ● Manual
OM-2	Accessory Shoe 3	● TTL Auto ● Normal Auto ● Manual (1/60 sec cannot be used)
	Accessory Shoe 1 + 2	● Normal Auto ● Manual
OM-1	Accessory Shoe 1	● Normal Auto ● Manual
Other Cameras	Hot Shoe	● Normal Auto ● Manual

Flash modes indicated in red provide the viewfinder charge/auto check signal.

Main Characteristics

- Guide number 32 (in meters) or 104 (in feet) at ASA 100. The coverage angle is almost equal to the picture angle of a 24 mm super wide-angle lens.
- Vertical bounce mechanism is built in.
- TTL AUTO (Centralized Control flash): Silicon Blue Cells of the OM-2N(OM-2) [TTL Direct (off-the-film) Light Measuring] work also as the flash-light sensor. Features of this mode are: 1) ASA film speed, f-stop, TTL AUTO/MANUAL switching and X synch(OM-2N) need not be set on the T32; 2) lens aperture is used continuously; 3) wide working range—25cm~26m or 10 in.~86 ft. (F1.2 lens, ASA 100); 4) close-up and diffused flash-photography is achieved with ease; and 5) flashlight acceptance angle always coincides with lens picture angle.

Notes • Related Units

- Four 1.5V "AA" batteries (including Ni-Cd) may be used.
- Zoom adapter, wide adapter and color filters are optionally available.
- For off-camera flash: via
 - TTL Auto Connector + TTL Auto Cord T
 - Power Bounce Grip 2, or
 - TTL Auto Multi Connector
- Electronic Flash AC Adapter 2 is optionally available.
- The T32 cannot be used with a camera having no hot shoe.
- The following flashphoto group units are exclusively for use with the Quick Auto 310 and cannot be used with the T32. Bounce Grip, Synchro Cord, Remote Sensor, TTL Auto Cord, 315V Power Pack 1 and F. AC Adapter.

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Electronic Flash T32
Stock NO. 107-017

OM SYSTEM ELECTRONIC FLASH T32

● NORMAL AUTO Sensor Window

Measures light reflected from subject and automatically shuts off flash output when it has reached the proper amount for accurate exposure (NORMAL AUTO).

● Hot Shoe Mount

● ASA Index Mark

● ASA Scale

When ASA film speed is set, corresponding aperture/distance scale is shown.

● ASA Switching Knob

To set ASA film speed, remove calculator panel and align the ASA value against ASA Index Mark.



● Mode Switching Knob

Slides right and left to allow selection of NORMAL AUTO (3 apertures) and MANUAL (2-stage output) mode.

● Distance Scale (indicated in meters)

● Calculator Panel (indicated in feet)



● Main Specifications

Type: Energy-saving, series-circuit type Centralized Control (TTL AUTO) flash unit (with normal auto and manual capability).

Guide number: 32 (ASA 100, meters) or 104 (ASA 100, feet).

Coverage angle: 53° vertical, 74° horizontal (covers picture area of 24mm lens).

Flash duration: 1/50,000 – 1/1,000 sec.

Recycling time: 0.2 – 10 sec, with AA alkaline batteries on TTL AUTO and NORMAL AUTO (varies depending on flash-to-subject distance).

Flashes per set of AA alkaline batteries: 100–500 on TTL AUTO and NORMAL AUTO (varies depending on flash-to-subject distance).

Tilting angle of flash diffuser window: Down 15°, up 90°

Color temperature: 5,800°K.

Connection to camera: ① On-camera clip on (via hot shoe). ② Off-camera w/wo Power Bounce Grip 2 via TTL Auto Connector T4 (T3) and TTL Auto Cord T



● Flash Diffuser Window

● External Power Socket

Accepts output plug of optional Electronic Flash AC Adapter 2. Simultaneous use with "AA" batteries is possible.

● Lock Knob

● TTL AUTO* Panel (blank)

Blank for TTL AUTO mode, since T32 is controlled directly by OM-2N or OM-2.

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.



● Calculator Panel Switching Button

Press to remove the calculator panel.

● Power Switch

On-Off switch for flash circuitry. If available light photography is required, simply switch it off; then T32 will not fire even when fully charged.

● Test Button

Press to activate Auto Check Lamp for pre-shooting auto working range confirmation (NORMAL AUTO), or press for open flash.

● Auto Check Lamp

Flickers for approx. 2 seconds to indicate correct autoflash after shooting (TTL AUTO and NORMAL AUTO).

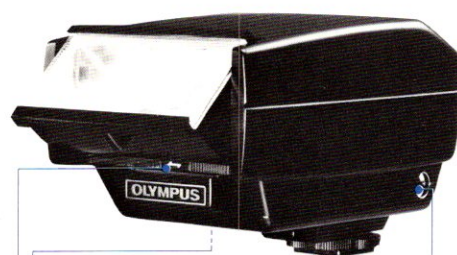
● Aperture Scale

● NORMAL AUTO Index Mark

For NORMAL AUTO flash operation, align Mode Switching Index Mark with either one of the f-stops indicated by marks (F4, F5.6 or F8: ASA 100).

● MANUAL Index Mark

For manual flash operation, align Mode Switching Index Mark to 32 or 16.



● Battery Compartment Cover

● TTL Auto Cord Socket

● Down-Tilt Stop Knob

0.3m with OM-2N (OM-2) and OM-1N.

Calculator: Reversible plate type—blank for OLYMPUS OM-2 (TTL Auto/Manual): auto/manual calculator for OM-1, OM-10 and non-OM cameras).

TTL AUTO (with OM-2N and OM-2):

Aperture Setting: Continuous, couples with aperture ring setting of camera lens.

SBC Sensor Acceptance Angle: Matches view of angle of camera lens.

Working Range: 0.25 – 26m (10in.-86ft.) (ASA100, F1.2 lens).

TTL AUTO Check: Neon-flicker indication. Viewfinder indication contact provided.

Ready Light Check: Charge lamp and viewfinder indication contact.

NORMAL AUTO:

Aperture Setting: 3 apertures (F4, F5.6 and F8 at ASA 100).

Normal Auto Sensor Acceptance Angle: Approx. 20°

Working Range: 1-8m (3.2ft.-26ft.) at F4, 0.7-5.6m

(28in.-18ft.) at F5.6; 0.5-4m (20in.-13ft.) at F8; (ASA100).

AUTO & Ready Light Check: Same as TTL AUTO and Ready Light Check above.

MANUAL:

Guide Number: HI-32 (ASA 100, m) or 104 (ASA 100, ft.) and LOW-16 (ASA 100, m), or 52 (ASA 100, feet).

Ready Light Check: Charge lamp and viewfinder indication contact.

Termination of light emission: Instantaneous with power switch off: T32 will not fire even when fully charged.

Power source: ① Four 1.5V "AA" penlight batteries (incl. Ni-Cd batteries). ② Four 1.5V "C" batteries inside Power Bounce Grip 2. ③ AC house current via Electronic Flash AC Adapter 2.

Dimensions and weight: 104×81×70mm (4.1"×3.2"×2.8"), 320g (11.3 oz.) (less batteries).

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T POWER CONTROL 1



Summary

- Mounted to the accessory 'hot' shoe, this unit feeds power to the T10 Ring Flash 1.
- The ring light equipment extends the advantages of TTL "OTF" Auto flash to the fields of medical close-up and outdoor action macrophotography (OM-2N, OM-2).
- With the calculator panel positioned in reverse, Manual flash can also be achieved more easily than ever before (OM-1N, OM-1, OM-10 and non-OM cameras).

Main Characteristics

- Compact, lightweight and well-balanced construction.
- Guide number 10 (m) or 33 (ft.) at ASA 100, plus low output of GN 4 (ASA 100, m).
- TTL "OTF" Auto Ring Flash: Close-up and macro flashphotography can be made merely by pressing the shutter release. (No need to set ASA rating and aperture on the unit.) The charge/correct auto flash signal can be seen both in the viewfinder (OM-2N) and on the back of the unit.

Notes • Related Units

- Standard calculator panel (for 50 mm lenses) comes equipped with the unit. Panels for the Macro 135 mm and the 1 : 1 Macro 80 mm are optionally available.
- Power sources: (1) Self-contained: 4 1.5V AA-size batteries (2) 4 1.5V size-C batteries inside Power Bounce Grip 2 (3) Electronic Flash AC Adapter 3.
- The ring flash equipment does not feature explosion-proof construction. Do not use in the presence of flammable gas.

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Stock number(s) shown on next page

OM SYSTEM T POWER CONTROL 1



To set film speed, remove calculator panel and slide the knob in one direction or the other until index mark aligns with the rating of your film. Once the ASA film speed is set you can read off the aperture corresponding to each working distance and magnification factor at a glance.

* On TTL Auto mode with the OM-2 all F numbers indicated by the white segment can be used. It is recommended to use a greater F number.

● Main Specifications

Type: Energy-saving series-circuit type TTL Centralized Control (TTL "OTF" AUTO) (with manual capability).

Guide number: 10 (ASA 100, meters) or 33 (ASA 100, feet) at 1m flash-to-subject distance and full power flash.

Coverage angle: 80°

Recycling time: 0.2-10 sec. with AA Alkaline batteries on TTL AUTO (varies depending on flash-to-subject distance).

Number of flashes: 100-500 with AA Alkaline batteries on TTL AUTO (varies depending on flash-to-subject distance).

Color temperature: 5,800° K.

Mounting on lens: 49mm/55mm filter thread mount provided on T10. T10 connects to power control unit by bayonet mount via spiral cord.

Electrical contact with camera: ① Clip-on type with hot shoe and lock. ② Bracket type with Power Bounce

Grip 2, TTL Auto Cord and TTL Auto Connector. ③ Freetype with TTL Auto Cord and TTL Auto Connector.

Exposure calculator: Reversible plate type - blank for OM-2N (OM-2) for TTL Auto/Manual flash; calculator for OM-1N (OM-1), OM-10 and non-OM cameras for Manual flash.

TTL "OTF" AUTO (with OM-2N or OM-2):

Aperture Setting: Continuous, couples with aperture ring setting of camera lens.

SBC Sensor Acceptance Angle: Matches view of camera lens. TTL AUTO Check: Neon-flicker indication. Viewfinder indication contact provided.

Ready Light Check: Charge lamp and viewfinder indication contact.

MANUAL: Guide Number: 10 (ASA 100, meters) or 33 (ASA 100, feet) on full power flash. Low-4 (ASA 100, meters) or 13 (ASA 100, feet)

Aperture Setting: In reference to calculator plate on which F numbers and magnification factors are gra-

duced in accordance with ASA film speed.

TTL Auto cord socket: Plug-in type with automatic lock.

External power socket: Plug-in type.

Termination of Flash Emission: Instantaneous. With power switch off, the ring flash will not fire even when fully charged.

Power source: ① 1.5V "AA" battery x4 (incl. Ni-Cd) inside T Power Control 1. ② 1.5V "C" battery x4 (incl. Ni-Cd) inside Power Bounce Grip 2. ③ AC house current via Electronic Flash AC Adapter 3. ② and ③ are activated by on/off switch of power control unit.

Illuminators: Eight electric bulbs are built into the front of ring flash unit. (Power source: 6V Power Pack 2 or AC Adapter 3.)

Recommended Macro lenses: ZUIKO MC 135mm F4.5, 1:1 MC 80mm F4, and MC 50mm F3.5.

Dimensions and weight: 81×70×104mm (3.2"×2.8"×4.1"), 320g (11.3oz.) (less batteries).

T Power Control 1
Stock No. 107-023

Calculator Panel 50mm MACRO
Stock No. 107-050

Calculator Panel 80mm MACRO
Stock No. 107-051

Calculator Panel 135mm MACRO
Stock No. 107-052

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T10 RING FLASH 1 & RING CROSS FILTER POL



Summary

- The T10 Ring Flash 1 screws into the front of the camera lens and links with the T Power Control 1 mounted to the camera, to provide shadowless lighting at extremely close camera distances.
- Especially designed for macro lenses: Macro 50mm F3.5¹⁾, Macro 80mm F4²⁾, and Macro 135mm F4.5²⁾.
1) w/wo Telescopic Auto Tube 65-116 or Auto Bellows
2) w/ 65-116 or Auto Bellows

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- This is the world's first TTL "OTF" AUTO* ring flash specially designed for close-up work and macrophotography.
- Compact and functional, it is ideally suited for medical, scientific and outdoor action photography.
- Guide number is 10 (ASA 100, m) or 33 (ASA 100, ft.) at peak.
- Eight electric bulbs are built into the flash surface to facilitate focusing and composition with dark subjects.
- With the aid of the optional Ring Cross Filter POL the ring flash reproduces glossy objects, minimizing undesirable directly reflected light (shells, human eyes, etc.).

Notes • Related Units

- T Power Control 1 (containing 4 AA batteries, booster, capacitor, etc.) operates in tandem with the T10.
- Having two threads, the T10 can be screwed into either 49mm ϕ or 55mm ϕ lenses. (35mm F2.8, 50mm F1.8, 50mm F1.4, 85mm F2, 100mm F2.8, 135mm F3.5 and 135mm F2.8). Picture edges may darken if close-up range is exceeded.
- Ring flash may cause red-eye effect in portraits.
- AC Adapter 3, exclusively for use with the T Power Control 1 and the T10 Ring Flash 1, will be optionally available shortly.

OLYMPUS

T10 Ring Flash 1
Stock NO. 107-013
Ring Cross Filter POL
Stock NO. 107-027

OM SYSTEM T10 RING FLASH 1 & RING CROSS FILTER POL



● Main Specifications (T Power Control 1 + T10 Ring Flash 1)

Type: Energy-saving series-circuit type TTL Centralized Control (TTL "OTF" AUTO) (with manual capability).

Guide number: 10 (ASA 100, meters) or 33 (ASA 100, feet) at 1m flash-to-subject distance and full power flash.

Coverage angle: 80°

Recycling time: 0.2 ~ 10 sec. with AA Alkaline batteries on TTL AUTO (varies depending on flash-to-subject distance).

Flashes per set of AA alkaline batteries: 100 ~ 500 on TTL AUTO (varies depending on flash-to-subject distance).

Color temperature: 5,800° K.

Mounting on lens: 49mm/55mm filter thread mount provided on T10. T10 connects to power-control unit by bayonet mount via spiral cord.

Electrical contact with camera: ① Clip-on type with hot shoe and lock. ② Bracket type with Power Bounce Grip 2, TTL Auto Cord and TTL Auto Connector. ③ Free type with TTL Auto Cord and TTL Auto

Connector.

Calculator: Reversible plate type—blank for OM-2 (TTL Auto/Manual) : calculator for OM-1, OM-10 and non-OM cameras for Manual flash.

TTL "OTF" AUTO (with OM-2N or OM-2): Aperture setting: Continuous, couples with aperture ring setting of camera lens.

SBC sensor acceptance angle: Matches view of camera lens.

TTL AUTO Check: Neon-flicker indication. Viewfinder indication contact provided.

Ready light check: Charge lamp and viewfinder indication contact.

MANUAL: Guide number: 10 (ASA 100, meters) or 33 (ASA 100, feet) on full power flash. Low-4 (ASA 100, meters) or 13 (ASA 100, feet).

Aperture setting: In reference to calculator plate on which F numbers and magnification factors are graduated in accordance with ASA film speed.

TTL AUTO CORD socket: plug-in type with automatic lock.

External power socket: Plug-in type.

Termination of flash emission: Instantaneous.

With power switch off, the ring flash will not fire even when fully charged.

Power source: ① 1.5V "AA" battery × 4 (incl. Ni-Cd) inside T Power Control 1. ② 1.5V "C" battery × 4 (incl. Ni-Cd) inside Power Bounce Grip 2. ③ AC house current via Electronic Flash AC Adapter 3.

Illuminators: Eight electric bulbs are built into the front of ring flash unit. (Power source: 6V Power Pack 2 or AC Adapter 3).

Recommended macro lenses: Zuiko MC MACRO 135mm F4.5, MC 1:1 MACRO 80mm F4, MC MACRO 50mm F3.5.

Dimensions and weights: T Power Control 1: 81 × 70 × 104mm (3.2" × 2.8" × 4.1"), 320g (11.3oz.) (less batteries).
T10 Ring Flash 1: 86 × 18mm (3.1" × 0.7"), 95g (3.4oz.)

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ACCESSORY SHOE 1



Summary

- The Accessory Shoe 1 is mounted on the OM camera pentaprism housing to support the electronic flash unit and complete the synch circuit.

Main Characteristics

- Cordless, direct hot shoe. Can be attached to, and detached from, the camera permitting smooth camera handling when the flash is not used.

Notes • Related Units

- As it has only one contact pin, the unit cannot be used for TTL Centralized Control Flash (TTL AUTO).
- When a side-mounting bracket type flash unit is connected to the camera, you may feel a small electric shock if you touch the direct contact. Since the Accessory Shoe is not required, it should be detached.

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OM SYSTEM ACCESSORY SHOE 1

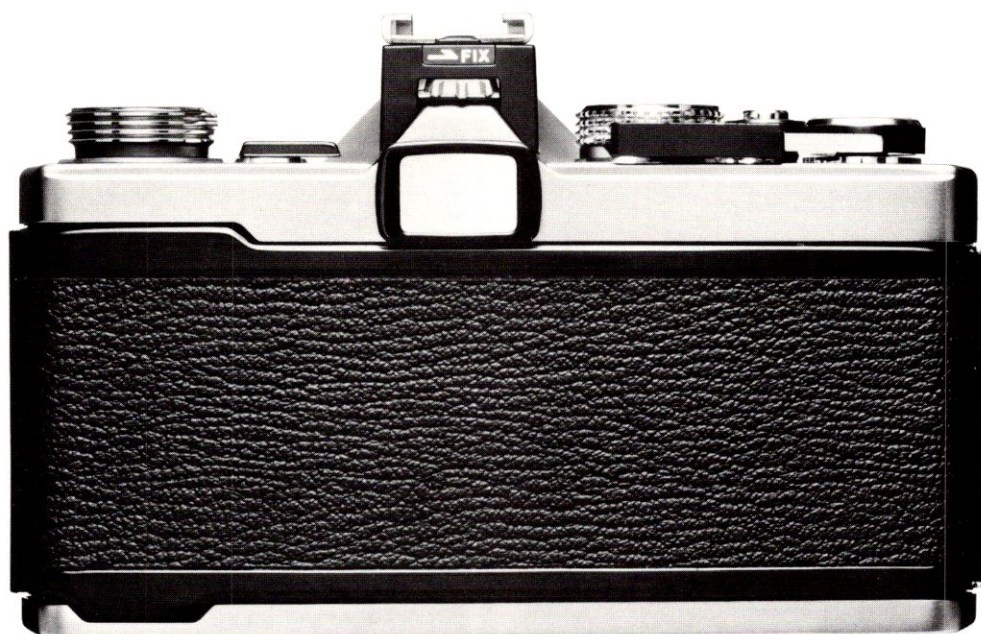
● Direct Contact Pin
 Connects to camera's synch circuit.

● Shoe
 Accepts hot-shoe mount of electronic flash or Remote Sensor.

● Clamping Knob

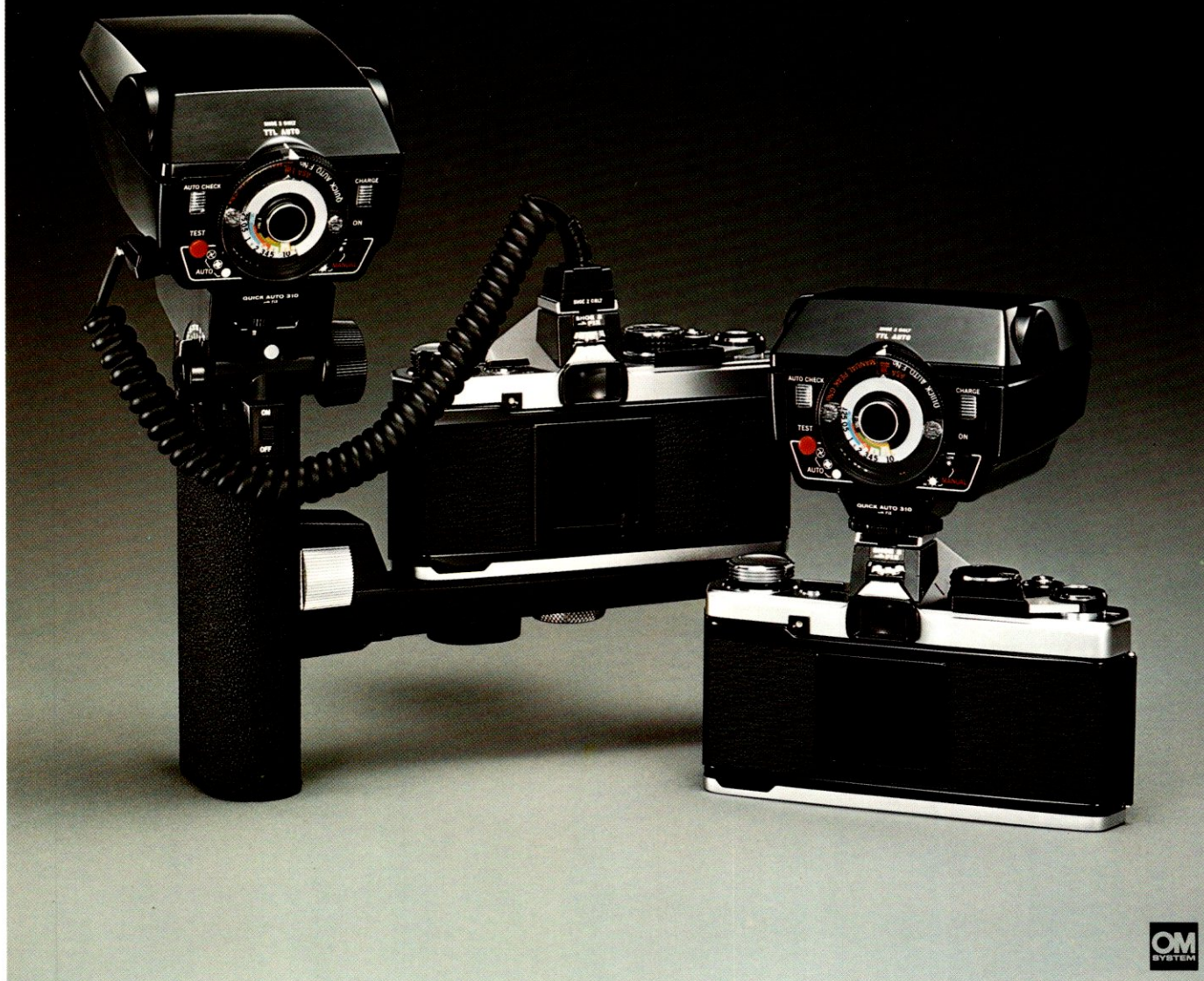
● Direct Contact Point
 Connects directly to electronic flash. Setting of synch terminal (X or FP) is made with camera's flash selector lever.

● Protective Cover
 Prevents scratching camera surface.



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ACCESSORY SHOE 2

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SYSTEM

Summary

- The 2-pin type Accessory Shoe 2 is mounted to the OM-2 pentaprism housing to support the Quick Auto 310 and complete the synch/TTL Direct Light Measuring circuit.

Main Characteristics

- Combined with the OM-2 and Quick Auto 310, it permits TTL AUTO flash operation.
- This cordless, direct hot shoe can be detached from the OM-2 for smoother handling when the Quick Auto 310 is not mounted.

Notes • Related Units

- As it has two contact pins, the unit cannot be mounted to the OM-1.
- Electronic flash units other than the Quick Auto 310 can also be fitted to the Accessory Shoe 2 for NORMAL AUTO and MANUAL flash operation.
- When a side-mounting, L-bracket type flash unit is connected to the camera, you may feel a small electric shock if you touch the direct contact. Since the Accessory Shoe is not required, it should be detached from the camera.

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ACCESSORY SHOE 2



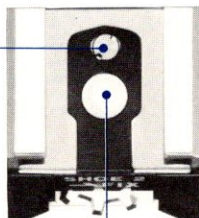
● Shoe

Accepts hot-shoe mount of electronic flash or TTL Auto Cord 0.6m.

● Direct Contact Pin

Connects to camera's synch circuit.

● Clamping Knob



● TTL AUTO Contact Point

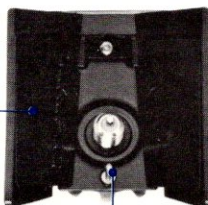
Connects to TTL AUTO contact of Quick Auto 310.

● Direct Contact Point

Connects to synch contact of electronic flash unit. Setting of synch terminal (X or FP) is made with camera's flash selector lever.

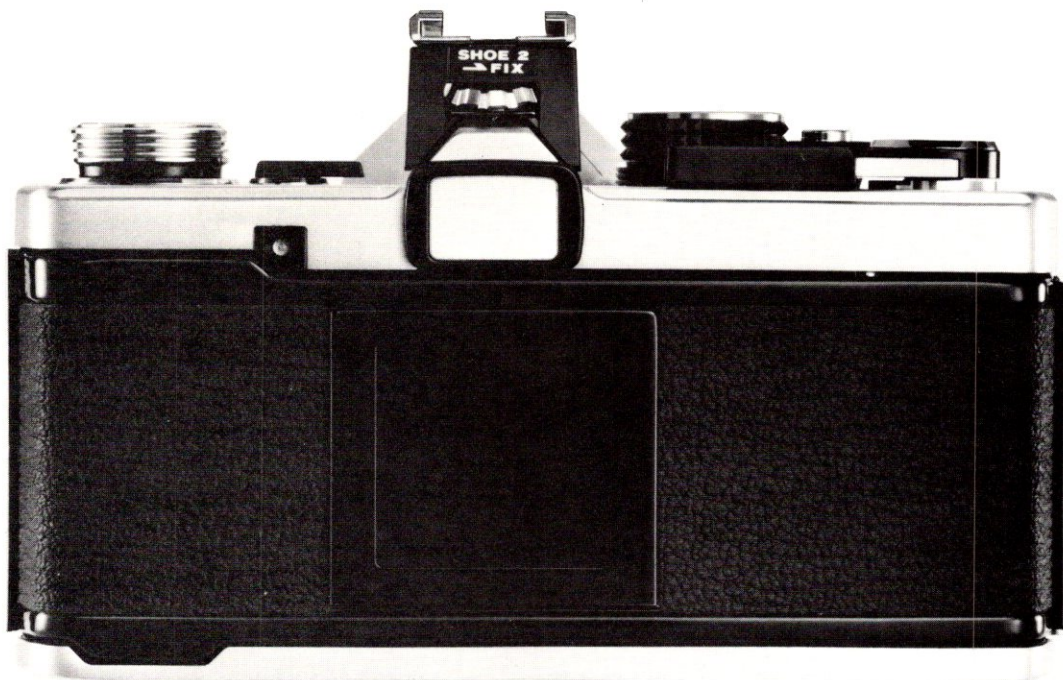
● Protective Cover

Prevents scratching camera surface.



● TTL AUTO Contact Pin

Connects to OM-2's TTL Direct Light Measuring circuit.



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BOUNCE GRIP



Summary

- The Bounce Grip serves as a holder for bounce flash operation and as a battery holder for the Quick Auto 310.

Main Characteristics

- The Quick Auto 310/Bounce Grip combination works as 1) a higher output power source operating on four 1.5V "C" batteries, 2) a grip type electronic flash unit, and 3) a bounce flash unit. It also permits auto bounce/off-camera flash in conjunction with the Remote Sensor or the TTL Auto Cord 0.6m.
- The unit consists of a grip and a bracket for convenience in carrying and storing. The bracket with a built-in synch cord connects to the grip instantly.

Notes • Related Units

- Four 1.5V "C" batteries are used.
 - Ni-Cd batteries may not be used.
 - The Remote Sensor (p.331) is required for NORMAL AUTO bounce flash with OM-1, OM-2 or other camera/Quick Auto 310/Accessory Shoe 1/Bounce Grip combination.
- The TTL Auto Cord 0.6m (p.342) is required for TTL AUTO bounce flash with OM-2/Quick Auto 310/Accessory Shoe 2/Bounce Grip combination.

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OM SYSTEM BOUNCE GRIP

● Power Plug

Connects directly to external power socket of Quick Auto 310.

● Nonslip Pin

Prevents flash unit from falling, in addition to lock knob of Quick Auto 310.

● Nonslip Button

Press to recess Nonslip Pin when detaching flash unit.

● Power Switch

ON/OFF switch for internal "C" batteries. Simultaneous use with "AA" batteries (inside Q.A. 310) reduces recycling time.

● External Power Socket

Accepts output plug of F. AC Adapter (AC transformer) or 315V Power Pack (layer battery), if required.

● Battery Chamber Cover (Baseplate)

Ni-Cd batteries may not be used.

● Tripod Screw

Any one of four tripod sockets can be used to suit camera types.

● Built-in Synch Cord

Fits into camera's synchronization socket; short and functional.

● Bounce Head

Adjustable angle from 75° upward to 15° downward; ratchet click at 15° increments; graduated.

● Head Clamp

Locks Bounce Head.

● Bracket Mount

● Guide Groove

Bracket is slid to desired flash height (max. 65mm). Never poke any metallic object into Groove as it will cause electric shock.

● Bracket Clamp

Fastens Bracket to Grip firmly by means of Mounting Pin below.

● Mounting Pin

Protrudes when Bracket Clamp is turned.

● Contact Pin

Connects directly to Grip circuit.

● Guide Pin

To attach Bracket to Grip, first insert Mounting Pin into round hole atop Guide Groove, and Guide Pin into groove underneath.

Grip Section

Bracket Section

● Main Specifications

Type: Bounce grip/battery holder, with bracket

Batteries: 1.5V C battery × 4 (manganese or alkaline)

Flashes per set of "C" batteries: Alkaline—250 ~ over 1000 in auto operation

Recycling time with "C" batteries: 0.2 ~ 8 sec.

Automatic Bounce/Off-camera flash control:

NORMAL AUTO bounce/off-camera flash—OM-1 or -2 + Accessory Shoe 1 + Remote Sensor + Quick Auto 310 + Bounce Grip

TTL AUTO bounce/off-camera flash—OM-2 + Accessory Shoe 2 + TTL Auto Cord 0.6m + Quick Auto 310 + Bounce Grip.

Size & weight: Grip unit—164 × 72 × 40 mm, 200 g (less batteries) (6 1/2 × 2 7/8 × 1 5/8 in., 7.1 oz.);

Bracket unit—172 × 46 × 33 mm, 180 g (6 3/4 × 1 3/4 × 1 1/4 in., 6.3 oz.)

OLYMPUS

TTL AUTO CONNECTOR TYPE 3



Summary

- This unit is designed exclusively for use with the OM-2 (without "N" designation) to accept the TTL Auto* Cord T for off-camera flash operation.

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- The unit is screwed into the camera hot shoe socket when necessary, in place of the accessory shoe.
- The TTL Auto Cord T is locked in mechanically when fully inserted into the socket, preventing accidental removal during flash operation.

Notes • Related Units

- OM-2N cannot be used with this unit.
- For compatible camera/Connector/flash combinations, refer to the next page.

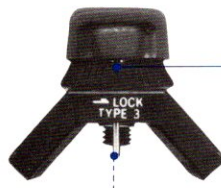
OLYMPUS

TTL AUTO Connector Type3
Stock NO. 107-081

OM SYSTEM TTL AUTO CONNECTOR TYPE 3

● Direct Contact Pin

Connects to the synch circuit of OM-2. The red dot on the X and FP flash selector must be aligned to "x".



● Clamping Knob

● TTL Auto Cord Socket



● Protective Cover

Prevents scratching camera surface.



● Flash Coupling Contact Pin

Connects to TTL AUTO circuit of OM-2.



Actual Size

■ USE THE RIGHT TTL AUTO CONNECTOR

Please consult this table to determine the correct connector for your camera and flash equipment.

camera	Type 3	Type 4
OM-1N	—	Electronic Flash T32 Electronic Flash T20 T Power Control 1
OM-2N	—	Electronic Flash T32 Electronic Flash T20 T Power Control 1
OM-1	—	—
OM-2	Electronic Flash T32 Electronic Flash T20 T Power Control 1	—

NOTE

- 1) Combinations of items printed in blue provide viewfinder charge/auto check indication.
- 2)  signifies the capability of Centralized Control (TTL Auto), Normal Auto and Manual flash operation.
- 3) The combinations without the rectangular mark above allow Normal Auto and Manual flash operation. (Not TTL Auto)
- 4) Flash is not possible with combinations not listed in the table.

OLYMPUS

TTL AUTO CONNECTOR TYPE 4



Summary

- This unit is designed exclusively to allow the OM-2N and OM-1N to accept the TTL Auto Cord T for off-camera flash operation.

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- Screwed into the hot shoe socket when necessary, in place of the accessory shoe.
- The TTL Auto Cord T is locked in mechanically when fully inserted into the socket, preventing accidental removal during flash operation.

Notes • Related Units

- It performs off-camera TTL AUTO* flash with OM-2N and T-series electronic flash units. It can also be used with OM-1N for off-camera NORMAL AUTO and MANUAL flash to provide the LED viewfinder information.
- For compatible camera/Connector/flash combinations, refer to the next page.

OLYMPUS

 TTL AUTO Connector Type4
 Stock NO. 107-082

OM SYSTEM TTL AUTO CONNECTOR TYPE 4

● Direct Contact Pin

Connects to X synch circuit of OM-2N (or OM-1N).



● Clamping Knob

● TTL Auto Cord Socket



● Protective Cover

Prevents scratching camera surface.



● Flash Coupling Contact Pins

Connect to TTL AUTO circuit of OM-2N.



Actual Size

■ USE THE RIGHT TTL AUTO CONNECTOR

Please consult this table to determine the correct connector for your camera and flash equipment.

camera	Type 3	Type 4
OM-1N	—	Electronic Flash T32 Electronic Flash T20 T Power Control 1
OM-2N	—	Electronic Flash T32 TTL Auto Electronic Flash T20 TTL Auto T Power Control 1 TTL Auto
OM-1	—	—
OM-2	Electronic Flash T32 TTL Auto Electronic Flash T20 TTL Auto T Power Control 1 TTL Auto	—

NOTE

- 1) Combinations of items printed in blue provide viewfinder charge auto check indication.
- 2) TTL
Auto signifies the capability of Centralized Control (TTL Auto), Normal Auto and Manual flash operation.
- 3) The combinations without the rectangular mark above allow Normal Auto and Manual flash operation. (Not TTL Auto)
- 4) Flash is not possible with combinations not listed in the table.

OLYMPUS

TTL AUTO CONNECTOR T20



Summary

- This modular hot shoe provides the T20 with a TTL Auto cord socket for off-camera use, hand-held or tripod mounted.

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- It enhances the T20's functionality for close-up work, macrophotography, etc.
- Having a tripod socket on the bottom, it can also offer stability for the T20 or T32 in off-camera flash operation.

Notes • Related Units

- Flash units other than T-series can also be used.
- To mount the flash unit, slip it into the shoe with the flash surface facing forward (and connector's TTL Auto cord socket facing backward).

OLYMPUSTTL Auto Connector T20
Stock NO. 107-075

OM SYSTEM TTL AUTO CONNECTOR T20

● TTL Auto Cord Socket



● Shoe

Accepts hot shoe mount of T-series flash unit.

● Flash Coupling Terminal



● Direct Contact Point



● Tripod Screw Hole



Slip the flash unit into the shoe as shown.

Actual Size

OLYMPUS

REMOTE SENSOR

OM
SYSTEM

Summary

- The Remote Sensor coupled with the Quick Auto 310 (+ Bounce Grip + Accessory Shoe 1 or 2 + OM-1, OM-2 or other camera) enables the photographer to easily perform NORMAL AUTO bounce flash operation.

Main Characteristics

- Offers the choice of 3 apertures (F4, F5.6 and F8 with ASA 100 film) for NORMAL AUTO, and full output flash for MANUAL mode allowing one-touch switching.

Notes • Related Units

- Quick Auto 310 (p.302).
- To operate with the OM-1, Accessory Shoe 1 (p. 311).
- With cameras not provided with hot shoe, Synchro Cord 0.6m must be employed. (p. 341)
- The Bounce Grip allows simple NORMAL AUTO bounce flash operation (p.313). Then, the built-in synch cord of the bracket unit should be put back into its storage groove; otherwise, the Quick Auto 310 will not function.
- TTL AUTO bounce flash operation requires Quick Auto 310/Bounce Grip/Accessory Shoe 2/OM-2/TTL Auto Cord 0.6m combination.

OLYMPUS

REMOTE SENSOR

● Auto Sensor

Measures light reflected from subject and automatically shuts off flash when it reached the proper volume for correct exposure.

● Synchro Cord Socket

Accepts flash plug of Synchro Cord when a camera not provided with hot shoe is in use.

● Cord

Spiral type, extendable to 0.6m.

● Hot-shoe Mount

Fits into Accessory Shoe.

● Hot-shoe Contact

● ASA Window

● ASA Setting Button

● Auto F-number/Manual GN Window

● Sensor Plug

Fits into synchro cord socket of Quick Auto 310. Auto sensor of Quick Auto 310 is switched off automatically.

● Auto/Manual Switch Dial Index

● Rotating Dial

● Auto Aperture Marks

Align white triangle to F4, F5.6 or F8 symbol (at ASA 100, m)

● Manual Setting (HI)

At this setting, Quick Auto 310 emits full power flash.

● Main Specifications

Type: Sensor for NORMAL AUTO bounce flash photography

Mounting to camera: Accessory shoe slide-in type

Electrical connection to camera: Direct contact or via Synchro Cord

Electrical connection to Quick Auto 310: Plug-in type

Operation modes: NORMAL AUTO/MANUAL dial setting

F-number setting: Choice of 3 apertures (F4, F5.6 and F8 in the case of ASA 100)

Sensor acceptance angle: Approx. 20°

Bounce Flash: With Bounce Grip

Manual: Full power flash at HI (GN34 at ASA100)

ASA speed range: ASA 25 ~ 1600 (1/3 step settings by rotating dial)

Dimensions & weight: 53×46×33mm, 70g (2 1/8×1 3/4×1 1/4 in., 2.5 oz.)

OLYMPUS

SYNCHRO CORDS 0.6m/5m



Summary

- The Synchro Cord is used with the Quick Auto 310 for connection to cameras not provided with hot shoe, or for off-camera flash operation.

Main Characteristics

- The cord is available in two lengths—0.6m and 5m. The 0.6m cord is a spiral type.

Notes • Related Units

- The unit is connected to the Quick Auto 310 or Quick Auto 310/Bounce Grip combination.

OLYMPUS

OM SYSTEM SYNCHRO CORDS 0.6m/5m

● Cord

Extendable from 0.3m to 0.6m.

● Flash Plug

Fits into synchro cord socket of Quick Auto 310 or Remote Sensor.

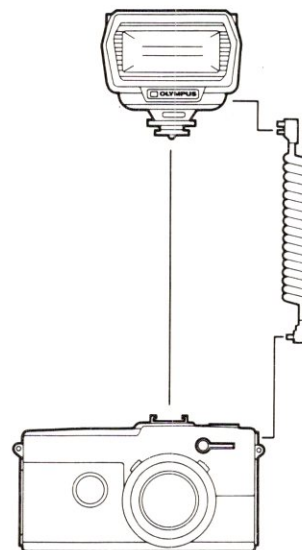
● Camera Plug

Fits into camera's synchronization socket.

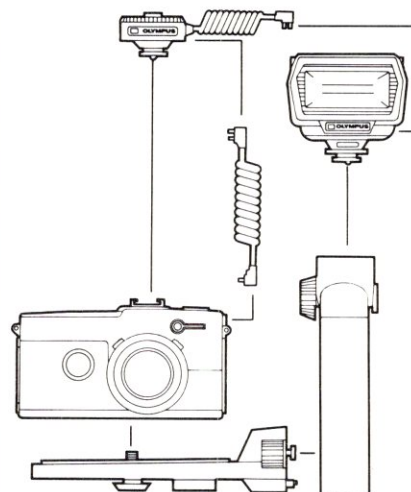
Synchro Cord 0.6m

Synchro Cord 5m

To connect Quick Auto 310 with a camera which is not provided with direct contact.



To connect Remote Sensor with a camera which is not provided with direct contact.



TTL AUTO CORD 0.6m



Summary

- The TTL Auto Cord 0.6m is required when the Quick Auto 310 is separated from the OM-2 for off-camera TTL AUTO flash, or bounce TTL AUTO flash operation.

Main Characteristics

- Spiral type, 0.6m (2 ft.) long.
- Attaches to the Accessory Shoe 2 and Quick Auto 310 instantly.

Notes • Related Units

- If any one of the OM-2+Accessory Shoe 2+Quick Auto 310+TTL Auto Cord 0.6m is replaced with a different unit, off-camera TTL AUTO flash is not possible; the flash light is emitted on full output.
- Insertion of the unit's flash-plug into the synchro cord socket automatically sets the Quick Auto 310 to the TTL AUTO mode, even when the switch dial index is not set to the "TTL AUTO" mark.
- When the Bounce Grip is used in conjunction with the TTL Auto Cord 0.6m, the built-in synch cord of the bracket unit should be put back into its storage groove. If the built-in synch cord is plugged into the camera's synchronization socket, the Quick Auto 310 will not function.

OLYMPUS



TTL AUTO CORD 0.6m

● Flash-plug

Fits into synchro cord socket of Quick Auto 310, which is then switched to TTL AUTO mode, regardless of dial setting.

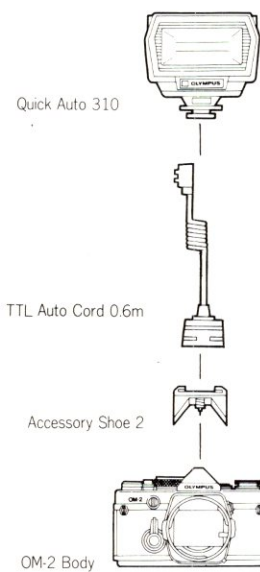
● Cord

● Camera-plug

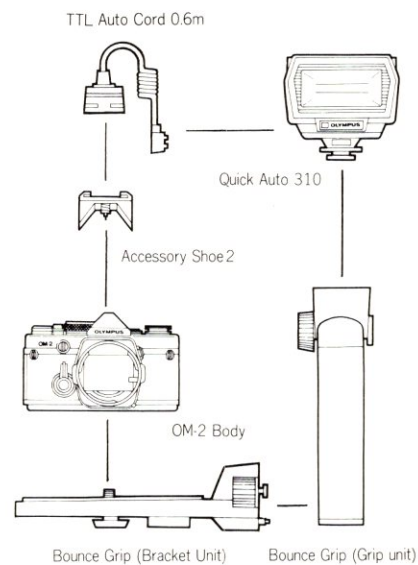
Allows one-way insertion to Accessory Shoe 2.



Off-camera TTL AUTO flash



Bounce TTL AUTO flash



OLYMPUS

TTL AUTO CORDS T 0.3/0.6/2/5m



Summary

- These extension cords are required for off-camera flash operation, to connect a T-series flash unit to the OM cameras (OM-2N, OM-2, OM-1N).

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- They provide off-camera TTL AUTO flash with the OM-2N (OM-2), and viewfinder Charge/Auto check indication with the OM-2N and OM-1N.
- The plug at each end is locked in mechanically when fully inserted into the terminal socket (TTL Auto Cord Socket), preventing accidental removal while in operation.
- Coupled with several TTL Auto Multi Connectors, off-camera flash as remote as 30m (98ft) is possible.
- The cords are available in 4 lengths -- 0.3m, 0.6m, 2m and 5m.

Notes • Related Units

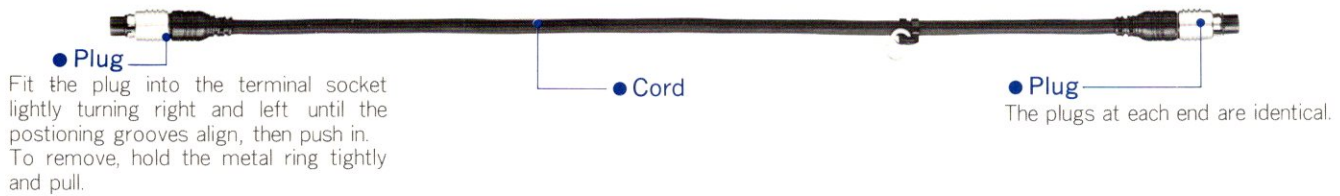
- Flash units other than T-series cannot be used.
- To unplug the cord, hold the metal ring (not the cord) tightly and pull.
- TTL Auto Connector (Type 4 for OM-2N, OM-1N; Type 3 for OM-2 without "N" designation) must be mounted to the camera in place of the accessory shoe.
- For use with T20, the TTL Auto Connector T20 is required.

TTL AUTO Cord T0.3m
Stock NO. 107-065
TTL AUTO Cord T0.6m
Stock NO. 107-066
TTL AUTO Cord T2m
Stock NO. 107-067
TTL AUTO Cord T5m
Stock NO. 107-068

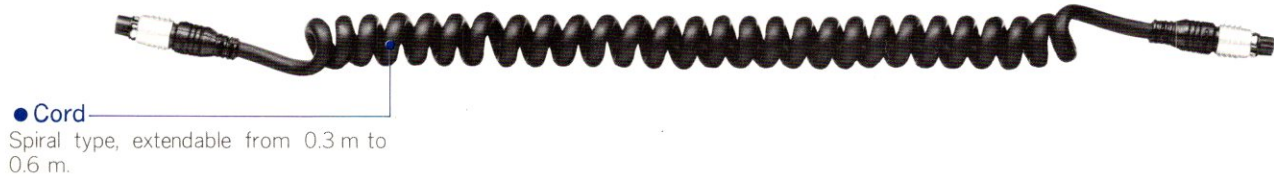
OLYMPUS

OM SYSTEM TTL AUTO CORDS T 0.3/0.6/2/5m

TTL Auto Cord T 0.3 m



TTL Auto Cord T 0.6m



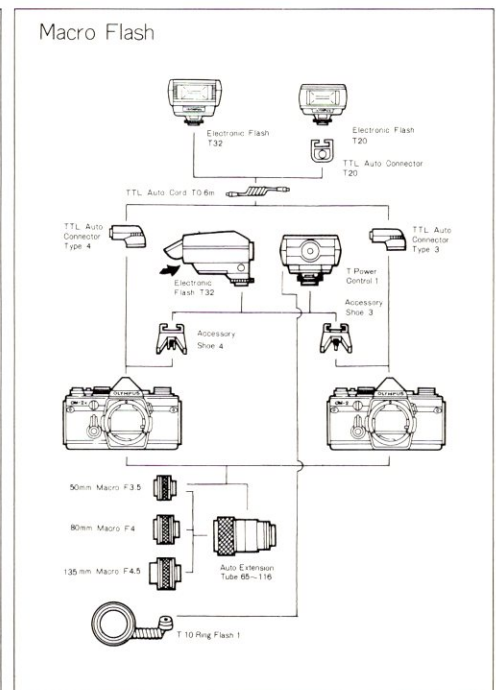
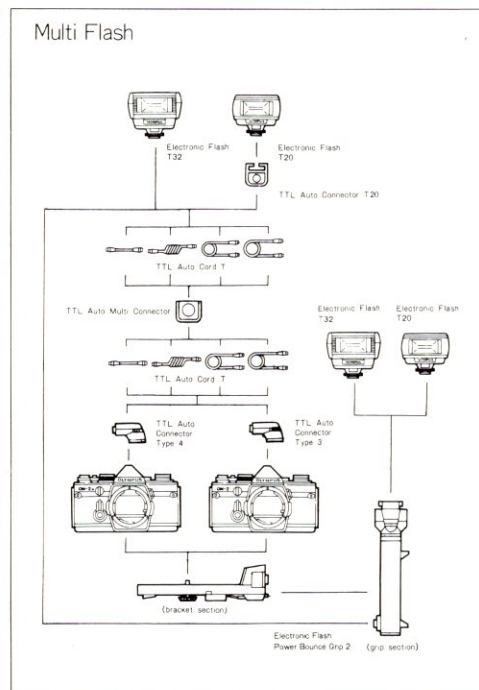
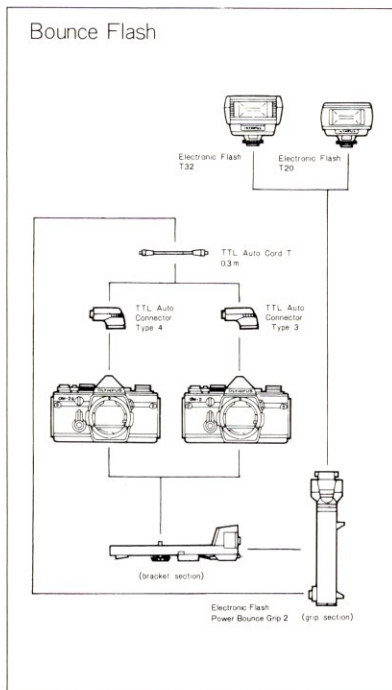
TTL Auto Cord T 2m



TTL Auto Cord T 5m



● Applications



TTL AUTO MULTI CONNECTOR



Summary

- The multi-flash connector allows 2 or 3 T-series flash units to be combined to perform simultaneous multi-unit flash photography. (Quick Auto 310 cannot be used.)

*TTL Auto is an exclusive OLYMPUS flash system in which the flash emission is measured off the film plane by the OM-2's TTL Direct (OTF) Light Measuring sensors, and the flash unit is controlled directly by the camera.

Main Characteristics

- Simultaneous flash with up to 9 flash units can be performed in TTL Auto* mode.
- Using several multi-flash connectors, the length of the TTL Auto Cords can be extended as long as 30m (98 ft.) for TTL Auto remote flash photography.

Notes • Related Units

- Flash units other than T-series cannot be used.
- The calculator panel of each flash unit should be set in the "full automatic control by OM-2" position.
- Before connecting the TTL Auto Cord, switch off the flash unit.
- Start taking pictures after the charge lamp in the viewfinder (OM-2N, OM-1N) or on the back of each flash unit (OM-2 without "N" designation) lights up.

OLYMPUS

TTL AUTO Multi Connector
Stock NO. 107-080

OM SYSTEM TTL AUTO MULTI CONNECTOR



● TTL Auto Cord Sockets

Normally accept TTL Auto Cords coming from the flash units.



● Main Body

Rugged construction, withstands weight when stepped on accidentally.

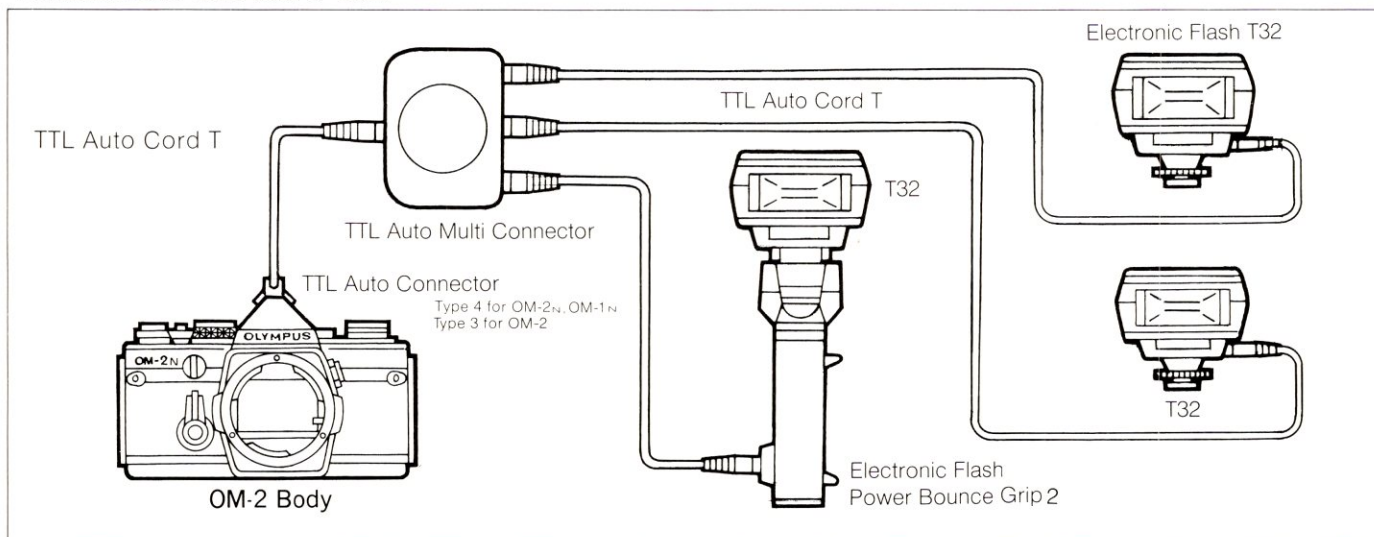
● TTL Auto Cord Socket

Accepts a TTL Auto Cord coming from either the camera or another Multi Connector.



Actual Size

● Simultaneous flash with 3 T32s



OLYMPUS

POWER BOUNCE GRIP 2



Summary

- The Power Bounce Grip 2 converts the T32 (or T20) into a grip type electronic flash unit. (Quick Auto 310 cannot be used with this unit.)

Main Characteristics

- It consists of a grip and a bracket for convenience in carrying and storage. The grip contains 4 "C" batteries (incl. Ni-Cd) to provide a powerful supplementary power source.
- The bounce head can be turned in almost all directions allowing free choice of bounce and close-up flash photography.
- The ON/OFF switch on the electronic flash unit activates both "AA" batteries inside it and "C" batteries inside the grip, shortening recycling time.
- The camera can be mounted to either the right or left-hand side of the grip by swiveling the bounce head 180°.
- The motor drive release button equipped on the grip permits comfortable motor drive photography.

Notes • Related Units

- Five tripod screw holes on the bracket allows free choice of camera position.
- TTL Auto Cord T and TTL Auto Connector are required for electric connection with the OM-2N, OM-2 and OM-1N. The synch cord built into the bracket is for NORMAL AUTO and MANUAL flash operation with the OM-1 and other cameras provided with a synch socket.
- M. Grip Cord is required to electrically connect the Bounce Grip 2 with the Motor Drive 1/M. 15V Ni-Cd Control Pack 1 (or Winder).
- The batteries must be removed from the grip when the unit is not to be used for long periods.

OLYMPUS

Power Bounce Grip2
Stock NO. 107-021

OM SYSTEM POWER BOUNCE GRIP 2

● Power Plug

Connects directly to external power socket of Electronic Flash T32 (or T20).

● Bounce Head Lock Lever

Fastens the bounce head in one motion.

● External power Socket

Accepts output plug of Electronic Flash AC Adapter 2 (AC transformer).

● Motor-drive Release Button

Allows operation of the Motor Drive or Winder by the hand holding the unit.

● TTL Auto Cord Socket

● Bounce Head

Can be angled 90° up, 20° down, 60° right and 240° left.

● M. Grip Cord Socket

Accepts the M. Grip Cord for electrical connection with Motor Drive or the Winder unit.

● Bracket Mount

Can be attached or detached in one simple operation.

● Guide Groove

Bracket is slid to desired flash height (max. 50mm). Never poke any metallic object into Groove as it will cause electric shock.

● Battery Compartment Cover (Baseplate)

"C" Ni-Cd batteries can also be used.

Grip Section

● Bracket Clamp

Fastens Bracket to Grip firmly by means of Mounting Pin below.

● Mounting Pin

Protrudes when Bracket Clamp is turned.

● Contact Pin

Connects directly to Grip circuit.

● Guide Pin

To attach Bracket to Grip, first insert Mounting Pin into round hole atop Guide Groove, and Guide Pin into groove underneath.

● Tripod Screw Hole

● Tripod Screw

Any one of five tripod sockets can be used to suit camera types.

● Built-in Synch Cord (primarily for OM-1 without "N" designation)

Fits into camera synchro socket; short and functional.

Bracket Section

● Main Specifications

Type: Bounce grip/bracket unit exclusively for use with Olympus T-series electronic flash units T32 and T20.

Applicable batteries: 1.5V "C" battery X 4 (incl. Ni-Cd).

Number of flashes: 200~1,000 (Alkaline) on TTL AUTO and NORMAL AUTO (coupled with T32 batteries; varies depending on flash-to-subject distance).

Recycling time: 0.2~9 sec. (Alkaline) and 0.2~7 sec. (Ni-Cd) (coupled with T32 batteries; varies depending on flash-to-subject distance).

Bounce angle range: Up 90°, down 20°, right 60°, left 240°.

Connection of units: Flash + grip..... built-in hot connection point; grip + bracket..... instant slide-in connection, bracket height adjustable, fastened by clamping knob, direct electrical contact; bracket + camera..... screw clamping at 5 different positions, electrical contact (primarily with OM-1 and non-OM cameras) via synch cord built in bracket; camera +

flash..... via TTL Auto Cord TO.3m and TTL Auto Connector Type 4 (OM-2N, OM-1N) or Type 3 (OM-2).

Dimensions and weights:

Grip section-197×56×49mm (7.8"×2.2"×1.9")
320gr (11oz.) (less batteries)

Bracket section-172×46×33mm (6.8"×1.8"×1.3")
210gr. (7.4oz.)

ELECTRONIC FLASH ZOOM ADAPTER T32



Summary

- Fitted to the Electronic Flash T32, this light condensing adapter extends the flash working range.

Main Characteristics

- The intensity of the T32 is raised to a maximum of 42 guide number (in meters) or 138 (in feet) at ASA 100 by fully extending the inner frame.
- OM System lenses of 50 mm and longer are applicable.

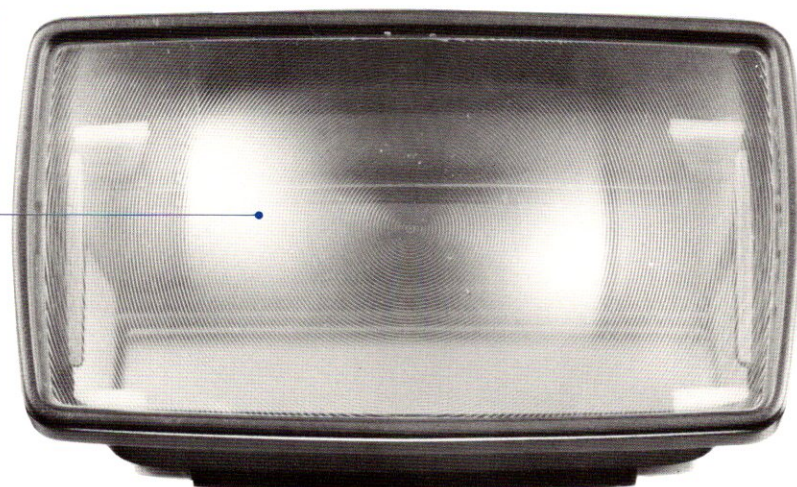
Notes • Related Units

- Exclusively for use with the Electronic Flash T32.
- For zoom flash the bounce mechanism built into the T32 can be turned as far as 90° upward. But downward tilting of 15° is not possible and should not be forced.
- TTL "OTF" Auto or Manual flash can be achieved (not Normal Auto).
- Do not wipe the unit with harsh chemicals. Do not damage the flash window (Fresnel lens).
- Mounting to the T32 is the same as the color filter (p.362 reverse).

OLYMPUSZoom Adapter T32
Stock NO. 107-036

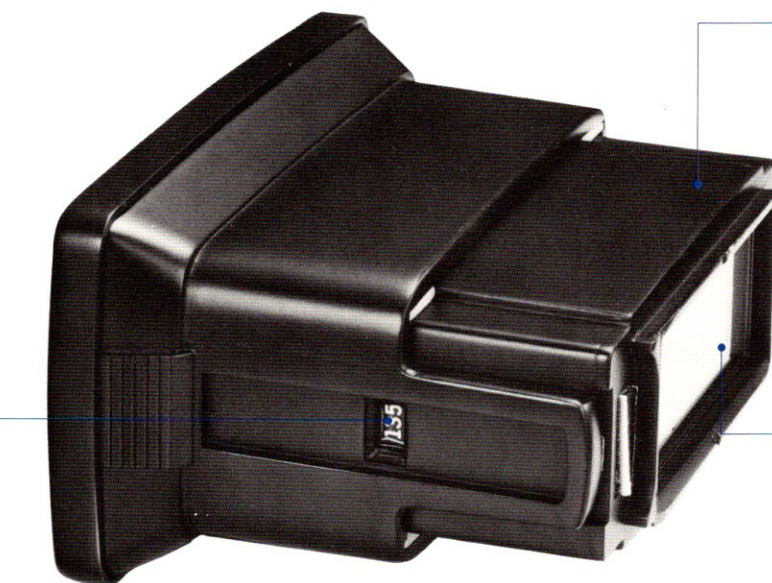
OM SYSTEM ELECTRONIC FLASH ZOOM ADAPTER T32

● Flash Window
(Fresnel lens)



● Focal-length Indicator Window

Each value (50, 75, 100, 135mm) indicates the shortest lens applicable at each setting.



● Inner Frame

Slide this frame in or out until the focal-length indicator window shows the value equal to, or smaller than, the focal length of the lens being used.

Setting to the contrary (e.g. "100" with a 80mm lens) will cause picture edges to darken.

● Dust Cover

Actual size

GN (m, ASA100)/LIGHT COVERAGE TABLE

Focal-length Indicator	GN (feet scale)	Light Coverage
50	36 (118)	vertical × horizontal 33° × 46°
75	38 (125)	25° × 35°
100	40 (131)	21° × 28°
135	42 (138)	17° × 24°

TTL "OTF" Auto Range (ASA100)

Indicator F-stop	135	100	75	50
22	24~190cm (0.8~6.2)ft.	23~180cm (0.8~5.9)ft.	22~170cm (0.7~5.6)ft.	20~160cm (0.7~5.2)ft.
16	33~260 (1.1~8.5)	31~250 (1.0~8.2)	30~230 (1.0~7.5)	28~220 (0.9~7.2)
11	48~380 (1.6~12.5)	45~360 (1.5~11.8)	43~340 (1.4~11.2)	41~330 (1.3~10.8)
8	66~520 (2.2~17)	63~500 (2.1~16.4)	60~470 (2~15.4)	57~450 (1.9~14.8)
5.6	100~750 (3.3~24.6)	90~700 (3.0~23.0)	85~670 (2.8~22)	80~640 (2.6~21)
4	130~1050 (4.3~34.4)	125~1000 (4.1~32.8)	120~950 (3.9~31.2)	110~900 (3.6~29.5)
2.8	190~1500 (6.2~49.2)	180~1400 (5.9~45.9)	170~1300 (5.6~42.7)	160~1200 (5.2~39.4)
2	260~2100 (8.5~68.9)	250~2000 (8.2~65.6)	240~1900 (7.9~62.3)	230~1800 (7.5~59.1)

OLYMPUS

ELECTRONIC FLASH WIDE ADAPTER •ND FILTER SET T32 & COLOR FILTER SET T32



Summary

- These filters are designed exclusively for use with the Electronic Flash T32.

Main Characteristics

WIDE ADAPTER•ND FILTER SET

- The Wide Adapter (milky white) increases the T32's angle of coverage to the picture area of a 21 mm super wide-angle lens and also provides diffused, more natural lighting.
The guide number decreases to 22 (in meters) or 72 (in feet) at ASA 100.
- The ND Filters reduce the quantity of flash light without affecting color quality. The guide number is decreased to 16 (ND 4) and 11 (ND 8), respectively.

COLOR FILTER SET

- (red, blue, yellow, orange, green)
- Used for special color effects.

Notes • Related Units

- Exclusively for use with the Electronic Flash T32.
- With the color filters, use the T32 in TTL "OTF" Auto or Manual mode.
- To clean, wipe with a dry, soft cloth. Do not wipe with organic solvents (alcohol, thinner, etc.).

Wide Adapter•ND Filter Set T32

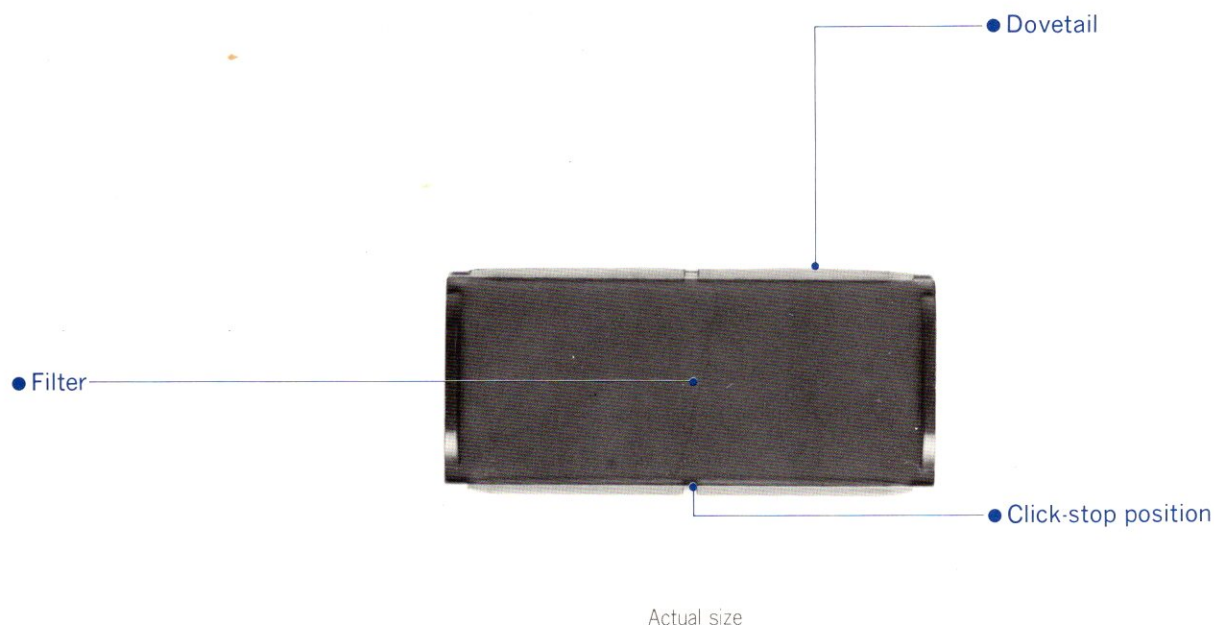
Stock NO. 107-045

Color Filter Set T32

Stock NO. 107-046

OLYMPUS

OM SYSTEM ELECTRONIC FLASH WIDE ADAPTER·ND FILTER SET T32 & COLOR FILTER SET T32

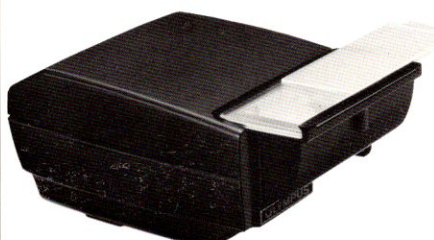


■ Attaching to the T32

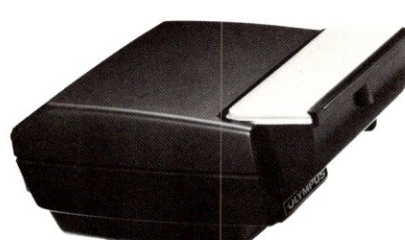
- ① Turn the T32's diffuser window fully upward (90°).



- ② Slide the filter into the dovetail grooves



- ③ until it stops with a click



TTL "OTF" Auto Range (ASA 100)

F-stop	Wide Adapter GN22(72)		ND4 GN 16(53)		ND 8 GN 11(37)	
	cm	(ft.)	cm	(ft.)	cm	(ft.)
22	13 ~ 100	0.43 ~ 3.3	9 ~ 70	0.30 ~ 2.3	7 ~ 50	0.20 ~ 1.6
16	17 ~ 130	0.56 ~ 4.3	13 ~ 100	0.43 ~ 3.3	9 ~ 70	0.30 ~ 2.3
11	25 ~ 200	0.82 ~ 6.6	17 ~ 130	0.56 ~ 4.3	13 ~ 100	0.43 ~ 3.3
8	35 ~ 270	1.10 ~ 8.9	25 ~ 200	0.82 ~ 6.6	17 ~ 130	0.56 ~ 4.3
5.6	50 ~ 390	1.60 ~ 12.8	35 ~ 270	1.10 ~ 8.9	25 ~ 200	0.82 ~ 6.6
4	70 ~ 550	2.30 ~ 18.0	50 ~ 390	1.60 ~ 12.8	35 ~ 270	1.10 ~ 8.9
2.8	100 ~ 780	3.30 ~ 25.6	70 ~ 550	2.30 ~ 18.0	50 ~ 390	1.60 ~ 12.8
2	140 ~ 1100	4.60 ~ 36.1	100 ~ 780	3.30 ~ 25.6	70 ~ 550	2.30 ~ 18.0