

OLYMPUS®

FULL ACTION
MACRO SYSTEM



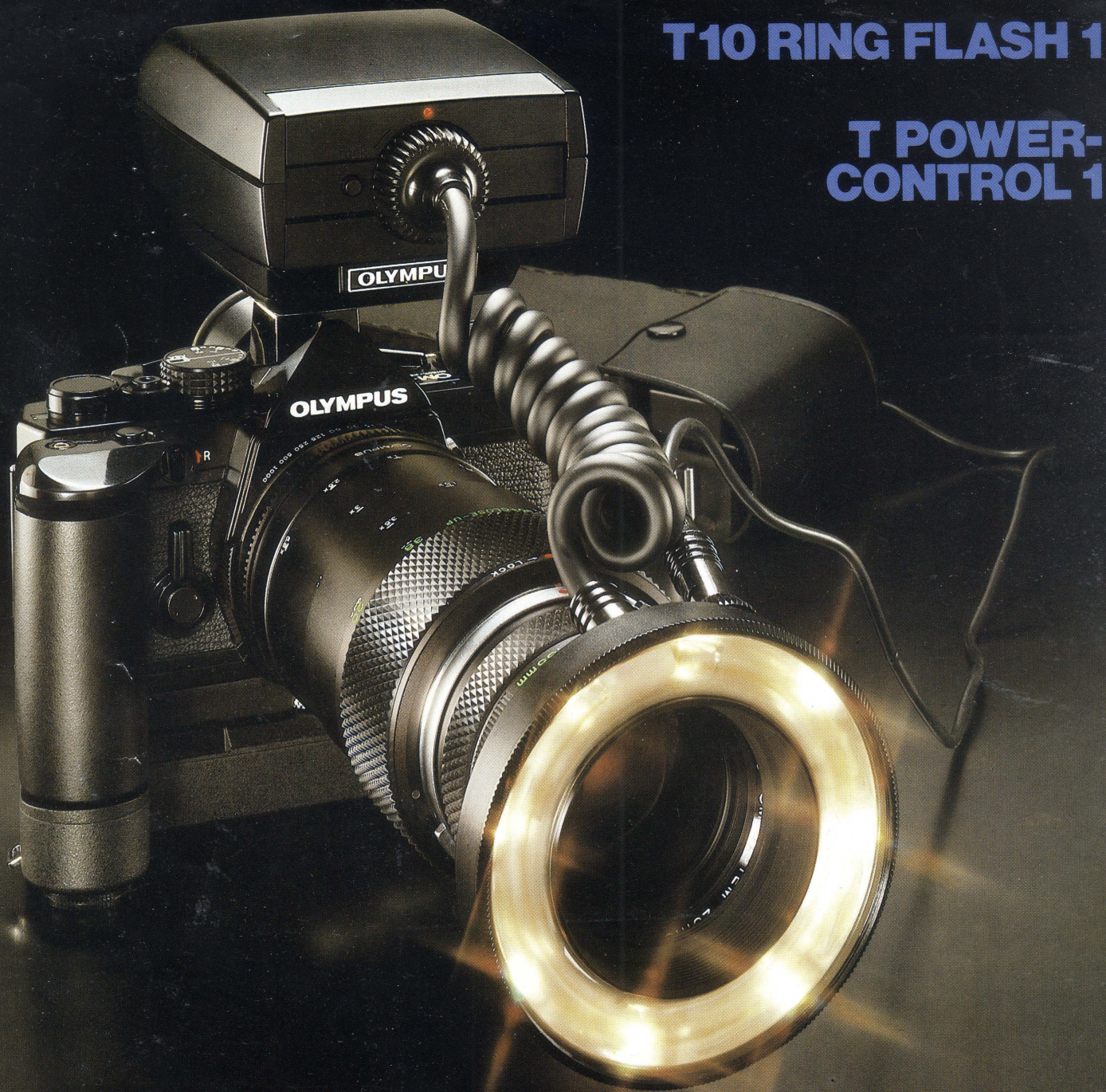
T10 RING FLASH 1
TELESCOPIC
AUTO TUBE 65-116
NEW MACRO LENSES



Available Autumn 1980
**NEW
UNITS**

T10 RING FLASH 1

T POWER-CONTROL 1



A Vastly Expanded Perspective in

The new units introduced here, which include special lenses and flash equipment, greatly enhance OM System performance, versatility and convenience in every type of macrophotography. Their outstanding performance and modular compatibility put the OM System in a class of its own even for highly specialized medical and scientific applications, while their unusual compactness and ease of use make them uniquely suitable for outdoor action macrophotography.

Many of the units are entirely new in concept. The Telescopic Auto Tube 65-116 is, in effect, the world's first easily portable bellows. Though barely

larger than a conventional extension ring, it permits instant, one-touch selection over a wide range of magnification values. These are clearly marked on the tube for each of the applicable OM macro lenses. In addition, the Telescopic Auto Tube is truly automatic, allowing the lens to be used in exactly the same way as when attached to the camera directly.

The T10 Ring Flash 1 is exceptionally convenient to use, being powered by the T Power-Control 1 unit which fits in the standard camera accessory shoe. With the OLYMPUS OM-2, it can operate in TTL "OTF" Auto Flash* mode, making

* The world's first system in which the flash is measured off the film plane, and controlled directly by the camera.

**TELESCOPIC
AUTO TUBE 65-116
ZUIKO MC
AUTO-MACRO 135mm F4.5**



**ZUIKO MC
AUTO-1:1 MACRO 80mm F4**

Scientific and Action Macrophotography

correct exposures totally automatic regardless of magnification factor, taking lens, aperture, subject distance or other factors. The ring flash features a built-in illuminator for composition and focusing in poor lighting conditions. A new cross polarizing filter can be used to greatly reduce directly reflected light from the subject.

The two new macro lenses are the long-awaited Zuiko MC Auto-Macro 135mm F4.5, which provides an increased working distance for focusing from infinity with magnifications to 1/2x life size, and the Zuiko MC Auto-1:1 Macro 80mm F4, a completely redesigned version of the OM System's highly reputed macro lens for magnifications from

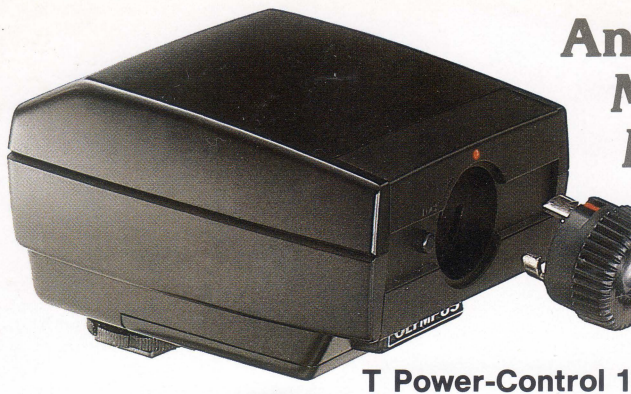
1/2x to 2x (with special close-up lens). Both these lenses are fully automatic.

Beyond dispute, the single biggest contribution to macrophotography with the OM System is the TTL Direct "off-the-film" Light Measuring and Centralized Control System of the OM-2, which completely banish the troublesome and time-consuming exposure compensation calculations imposed by every other SLR exposure system. The new units in this catalog enormously extend the applications of this superb advantage, giving the photographer assured mastery over a far wider range of subjects.

An Ideal Approach to Medical and Scientific Macrophotography

The OM-2 body is used together with the Telescopic Auto Tube, 135mm macro lens and ring flash. This provides a free choice of magnifications; free focusing either on the tube, on the lens or by changing the subject distance; totally automatic exposures with the TTL "OTF" Auto Flash system which compensates automatically for magnifications and subject distance, and allows for a completely free choice of lens apertures; while the power-control unit slips into the camera hot shoe for unprecedented maneuverability.

Naturally, other system units, such as motor drive can be substituted or added as desired. The cross polarizing filter is especially useful with highly reflective subjects, as in iridology.



T Power-Control 1

T10 Ring Flash 1

Zuiko MC Auto-Macro 135mm F4.5

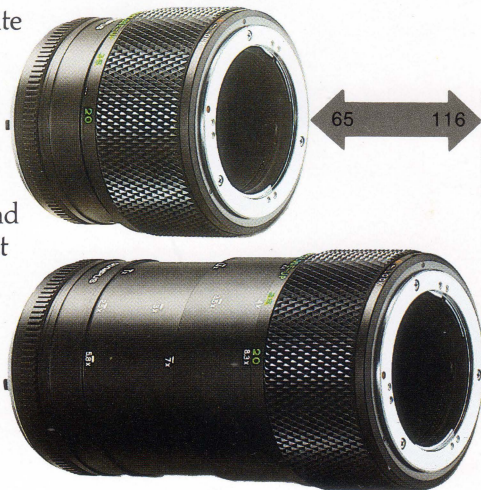


Telescopic Auto Tube 65-116



Telescopic Auto Tube 65-116

Extremely light and compact, with full auto function, the tube features extensibility quite sufficient for most applications. Naturally, it performs best with the OM System's special macro lenses. The tube slides open, obviating angular, twisting motions which disturb insects and other subjects. It can be locked at any position by turning slightly, it fits any OM camera, and has a detachable tripod mount.

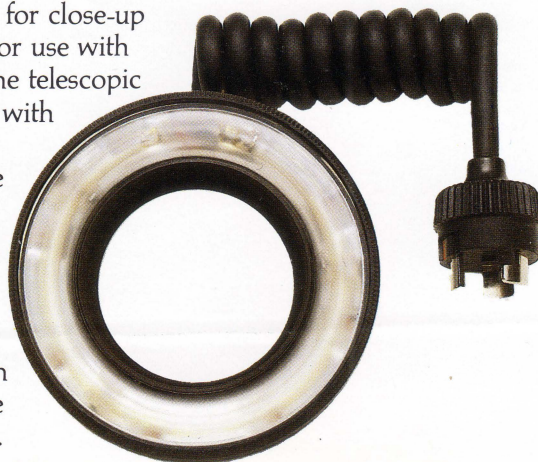


Zuiko MC Auto-Macro 135mm F4.5

An outstanding fully automatic lens with 5 elements in 4 groups for use with the Telescopic Auto Tube 65-116 or Auto Bellows for photography from infinity to 1/2 life size. A helicoid ring permits fine focusing at fixed subject distances. Apertures extend from F4.5 to F45.

T10 Ring Flash 1

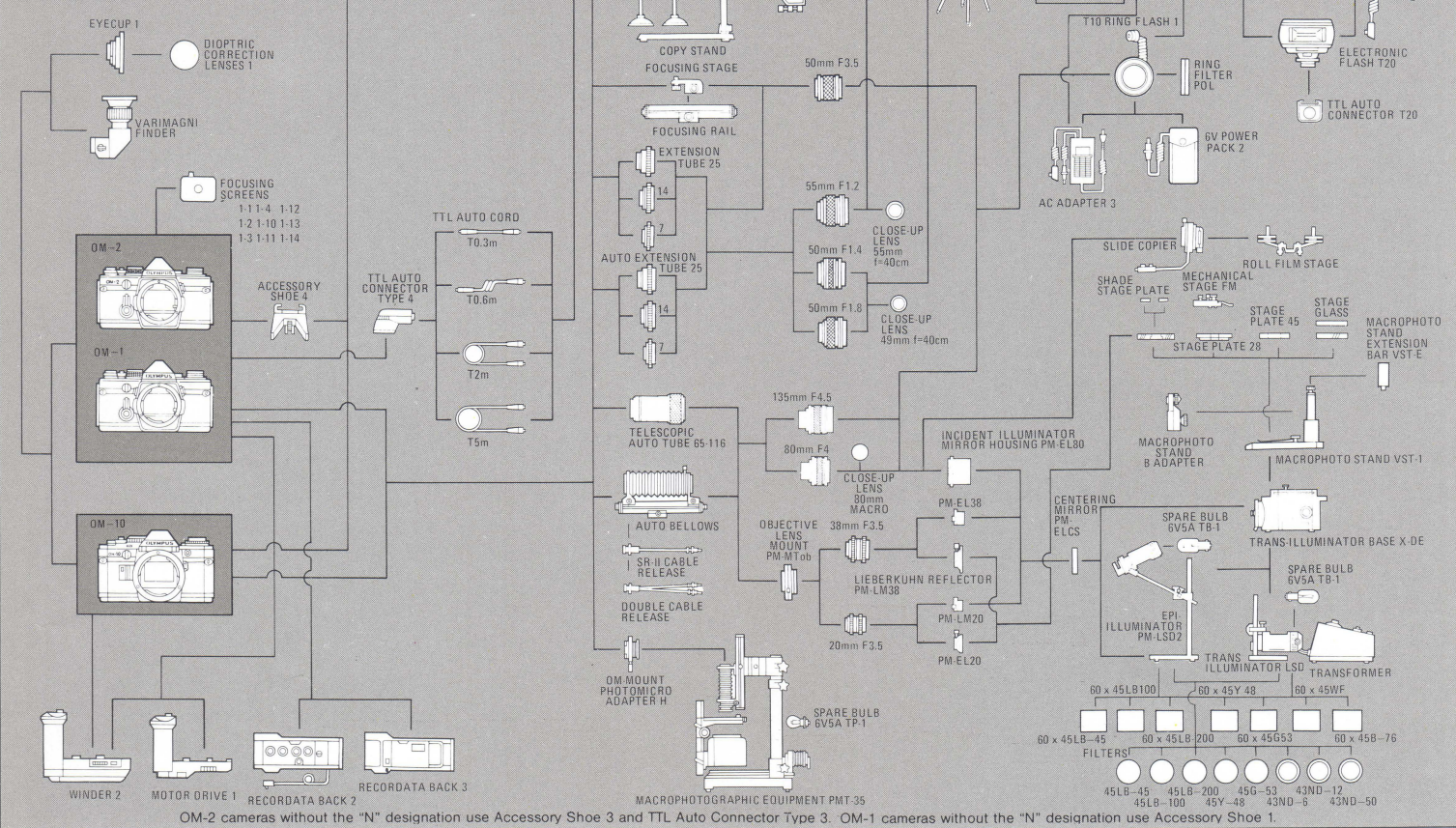
This ring flash provides even illumination for close-up and macro subjects. It is designed specially for use with OM System macro lenses with or without the telescopic auto tube or auto bellows, but may be used with other lenses and subject distances up to one meter (3.3 feet). The flash is screwed into the front of the taking lens (55mm and 49mm filter size), and connected to the T Power-Control 1 via the built-in cord. It includes eight illuminator lamps, using a separate power source, for composition and focusing with dark subjects. The ring flash operates in TTL "OTF" Auto or manual modes with the OM-2, or manual mode with other cameras.



T Power-Control 1

This extremely light and compact unit powers the T10 Ring Flash 1. It fits into the camera hot shoe (Accessory Shoe 4 with OM-2 or OM-1), a huge advantage in portability and convenience over all other ring flashes, which require detached power units. Flash charge and correct flash exposures are indicated on the

CHART OF MACROPHOTO GROUP



Zuiko MC Auto-1:1 Macro 80mm F4

An entirely redesigned, fully automatic lens for reproductions from 1/2x to 2x life size. The magnification with the Auto Bellows is from 1/2x to twice life size. With the Telescopic Auto Tube, magnifications go to life size, but a close-up lens extends the



range to 2x magnification. Apertures extend from F4 to F32. Helicoid fine focusing is provided.

Close-Up Lens 80mm Macro

For use with the 80mm F4 macro lens to extend its magnification range with the Telescopic Auto Tube from 1:1 to 2:1.



6V Power Pack 2

A four "D" battery power source normally used for the illuminator elements of the T10 Ring Flash 1. Supplied in its own carrying case.



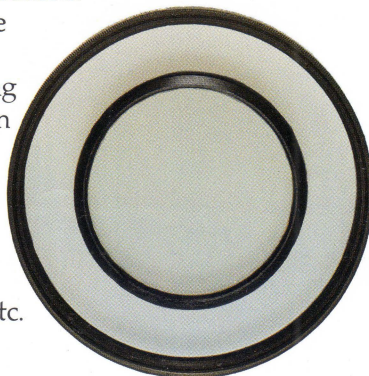
AC Adapter 3

Used with the T10 Ring Flash 1 to provide power for both flash and illumination. This adapter can also be used with any of the OM cameras to provide simultaneous power for winder and T32 or T20 flash units.



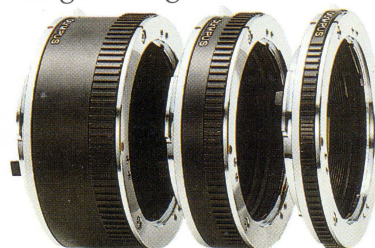
Ring Filter POL

A unique cross polarizing filter with two sections, one covering the taking lens and the other the ring flash. Its function is to minimize direct reflections in specialized work such as photography of shells, eyes, etc.



Auto Extension Tubes 7, 14, 25

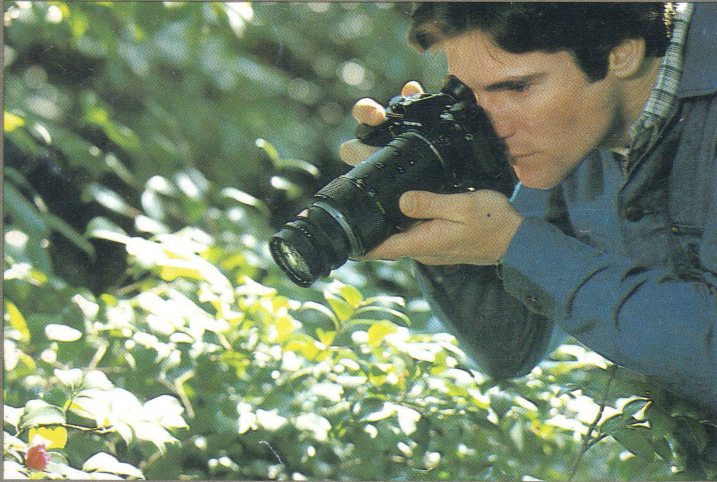
These extension tubes are automatic versions of those previously available. A complete set permits seven different extension combinations to give a wide range of magnifications.



back of the unit and in the OM camera viewfinder.

Total Macro Versatility in Every Application

Whether your interest is action macrophotography, medical and scientific work, or close-up photography, the OM System Macrophoto Group brilliantly overcomes the traditional macrophoto problems of high bulk and weight, heavy, cumbersome flash equipment, direct flash reflections, lack of system versatility and above all, complicated exposure calculations. Together with the OM-2, these new units promise, and unfailingly deliver, unprecedented performance.



Action Macro

With the sensational Telescopic Auto Tube 65-116, your complete macro system becomes fantastically portable, and allows instant adjustment for the ultimate in mastery over subjects that won't stay still.



Medical Macro

At last OLYMPUS gives you total freedom to select magnifications, subject distance and aperture, while guaranteeing perfectly exposed, superbly sharp pictures. Furthermore, it's outstandingly compact to handle and easy to use.



Extra Close-Up Range

When you use the T10 Ring Flash 1 with the 50mm Macro or with standard to moderate telephoto Zuiko lenses, you can be sure of pleasing, shadow-free illumination — with much greater control over depth-of-field effects, and fully automatic exposures.

Model names and specifications subject to change without notice.

Main specifications

| | Zuiko MC Macro 135mm F4.5 | Zuiko MC 1:1 Macro 80mm F4 |
|------------------------------|---|---|
| Angle of View: | 18° | 9° at highest mag. |
| Optical Construction: | 5 elements in 4 groups | 6 elements in 4 groups |
| F Stop Range: | 4.5 — 45 | 4 — 32 |
| Minimum Focus*: | 0.6m (23.6") [0.37m (14.6") W.D.]** | 0.35m (13.8") |
| Minimum Photo-graphic Range: | 48mm × 72mm (1.9" × 2.8") | 48mm × 72mm (1.9" × 2.8") ~ 12mm × 18mm (0.5" × 0.7")*** |
| Focusing: | In conjunction with Telescopic Auto Tube 65-116 or Auto Bellows | |
| Weight: | 320g (11.3 oz) | 170g (6 oz) |
| Length: | 47mm (1.9") | 33mm (1.3") |
| Maximum Diam.: | 60mm (2.4") | 59mm (2.3") |
| Filter: | 55mm screw-in | 49mm screw-in |

* With Auto Tube 65-116 or Auto Bellows. ** W.D.— Working Distance ***With Close-Up Lens

T10 Ring Flash 1 + T Power-Control 1

| | |
|---|--|
| Type: | Energy-saving, series-circuit type TTL Centralized Control (TTL "OTF" AUTO) (with manual capability) |
| Guide Number: | 10 (ASA100, meters) or 33 (ASA100, feet) |
| Coverage Angle: | 80° |
| Mounting on Lens: | 49mm/55mm filter thread mount, built in. |
| Electrical Contact with Camera: | ① Clip-on type with hot shoe and lock ② Bracket type with Bounce Grip, TTL Auto Cord and TTL Auto Connector ③ Free type with TTL Auto Cord and TTL Auto Connector |
| Recycling Time: | 0.2 — 10 sec. with AA Alkaline batteries (varies depending on TTL "OTF" Auto flash-to-subject distance) |
| Flashes per Set of AA Alkaline Batteries: | 100 — 500 on TTL "OTF" AUTO (varies depending on flash-to-subject distance) |
| Termination of Light Emission: | Instantaneous. With power switch off, T10 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 ② and ③ are activated by T Power-Control 1 ON/OFF switch. |
| Illuminators: | Eight electric bulbs are built into the front of the ring flash unit. (Power source: 6V Power Pack 2 or AC Adapter 3) |

Progress
through
Precision

OLYMPUS
OLYMPUS OPTICAL CO., LTD. Tokyo, New York, Hamburg, London