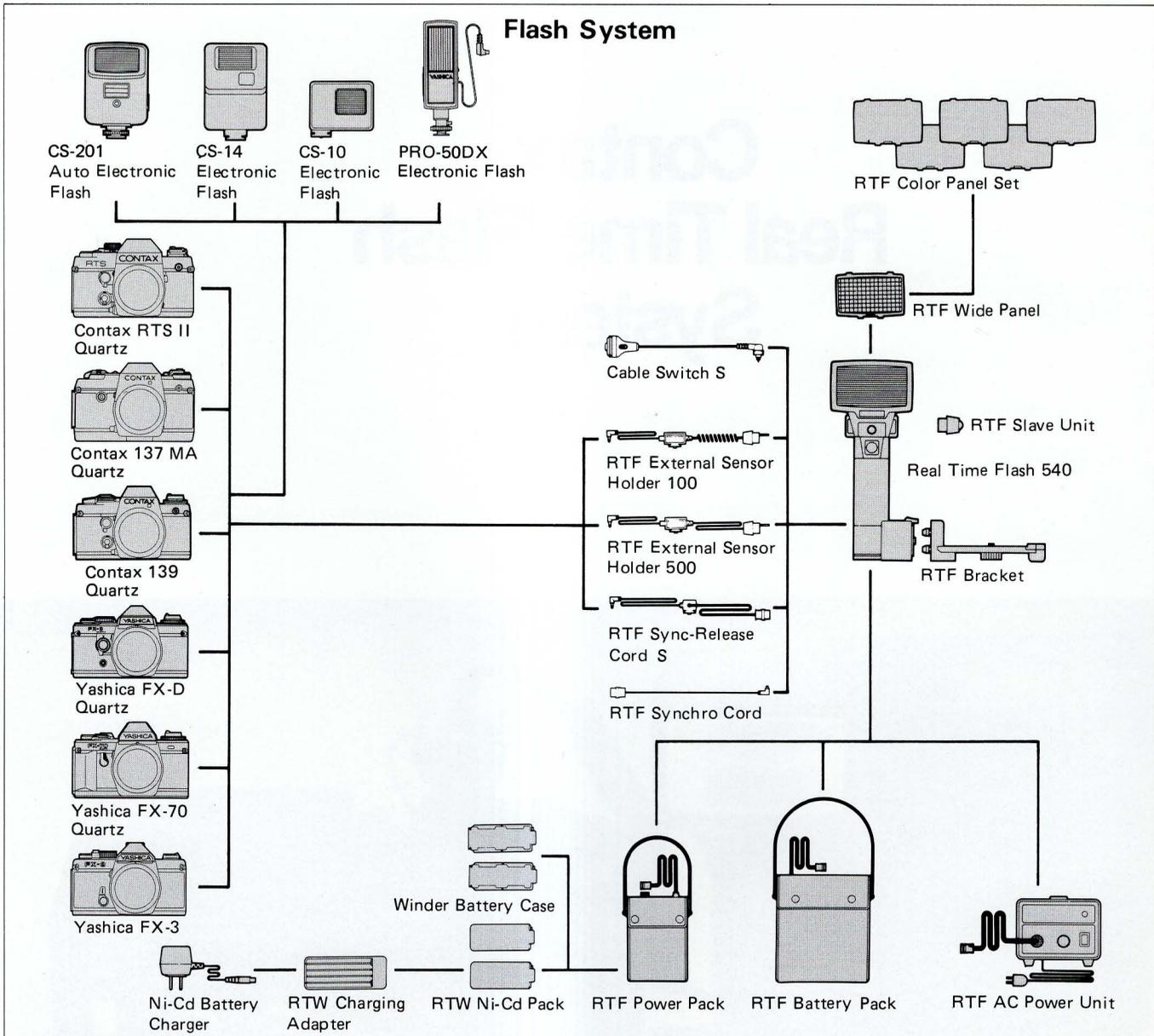


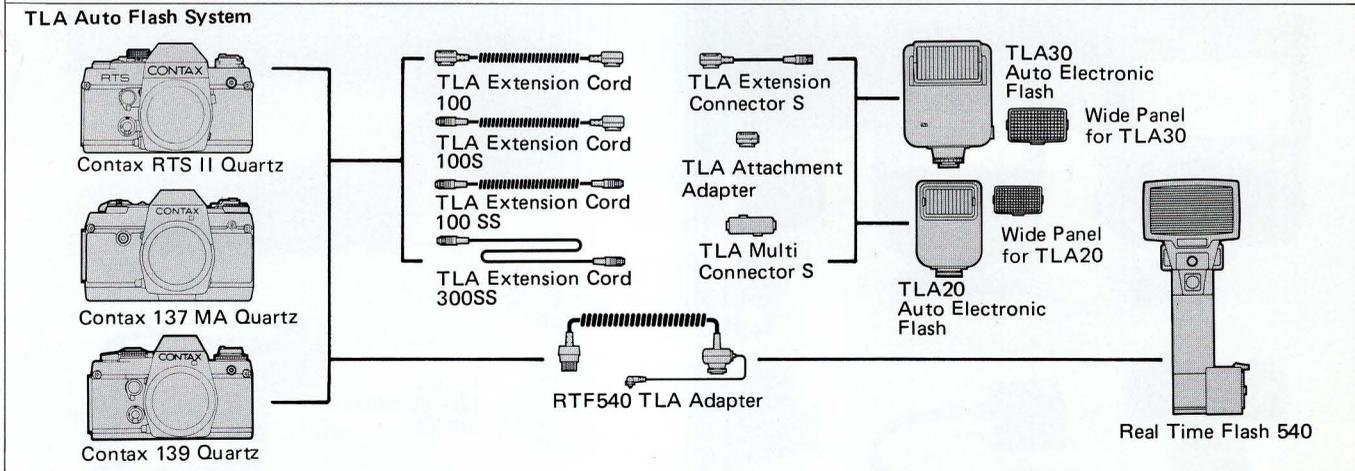
# Contax Real Time Flash System



## Flash System



## TLA Auto Flash System

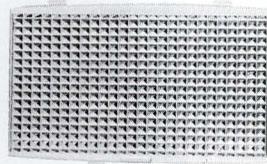


## CONTAX REAL TIME FLASH 540

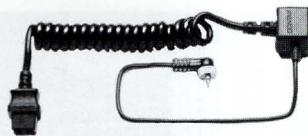
Set Price



RTF 540 Unit



RTF Wide Panel



RTF Sync-Release Cord S



RTF Bracket



The Contax Real Time Flash 540, or RTF540, is a highly sophisticated and unique system electronic flash unit offering unsurpassed versatility in flash photography.

A grip-type unit, it features not only the advanced Contax TLA capability for through-the-lens direct metering of flash and 'Fail-Safe' flash/shutter synchronization, but also energy-saving thyristorized circuitry for standard Auto-Flash use and high-output Manual capacity.

An electromagnetic release button with an electronic interlock is incorporated in the grip section of the unit. Through this feature, the built-in shutter release is interlocked until the flash unit is fully recycled, thus assuring fully exposed flash with each shot.

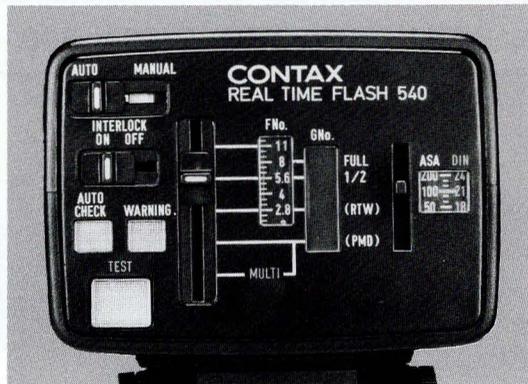
The output selector features a guide number of 40 (ASA 100 in meters) at full output; 28 at 1/2; 14 at the (RTW) setting and 7 at the (PMD) and Multi settings. GN 14 and 7 offer rapid recycling for synchronization to 2 flashes per second with the Real Time Winder and to 5 fps with the Professional Motor Drive, respectively. In addition, the RTF 540 is the only portable flash unit on the market to offer multiple stroboscopic flash — approximately 5 flashes per second for a duration of up to two seconds.

The flash unit also features a multi-directional swivel flash head for both vertical and horizontal bounce flash on Auto with the sensor unit trained on the subject. The sensor itself can be removed from its original socket for use with the optional External Sensor Holder to offer fully automatic off-camera flash control. Standard set comprises the RTF Bracket, RTF Sync-Release Cords and RTF Wide-Panel (for use with ultra wide-angle lenses). In addition, there are three optional power sources to choose from, a set of color panels is available for special effects photography, and an RTF Slave Unit is available for triggering multiple RTF units in perfect synchronization.

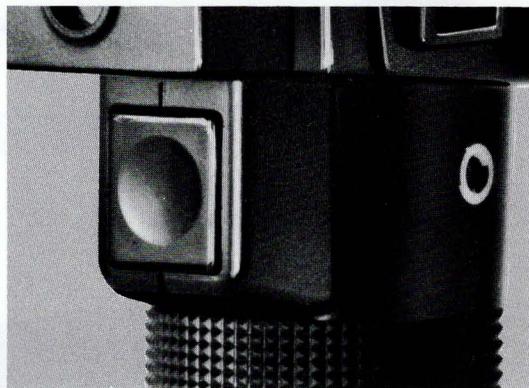
- RTF 540 Unit Price .....
- RTF Bracket Price .....
- RTF Sync-Release Cords Price .....
- RTF Wide-Panel Price .....

# YASHICA

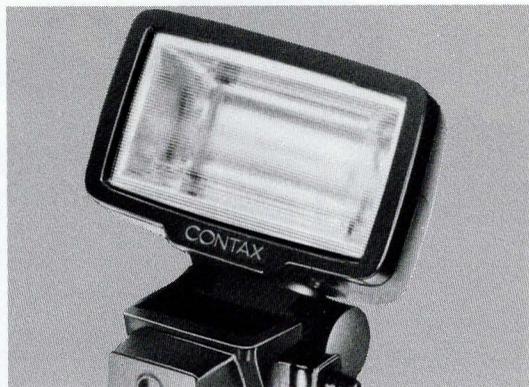
• **Type:** Grip-type systems auto flash unit featuring TLA system capability and energy-saving thyristorized circuitry for automatic light output cut-off. • **Guide Number:** 40 (ASA 100 in meters) at full output; additional clickstop settings at GN 28, 14 and 7 • **Coverage Angle:** 50 degrees vertical and 60 degrees horizontal (58 degrees vertical and 76 degrees horizontal — equivalent to the field covered by a 24mm lens — with the accessory Wide Panel) • **Effective Range on Auto:** 0.5 to 14 meters • **Aperture Settings on Auto:** f/2.8, f/5.6 and f/11 with ASA 100 film • **Light Sensing Angle:** 20 degrees • **Bounce Flash Angle:** Flash head tilts 90 degrees upward and swivels 90 degrees to the right and left • **Color Temperature:** Daylight balanced • **Power Source:** 1. RTF Power Pack (energized by two 7.2V RTW Ni-Cd Packs; or twelve 1.5V AA size penlight batteries) 2. RTF 510V Battery Pack (housing high-voltage laminated battery) or 3. RTF AC Power Unit (sold in Europe) • **Size:** 98 x 240 x 92mm (head and grip only) (3-7/8 x 9-7/16 x 3-5/8 in.) • **Weight:** 720 grams (1.58 lbs.)



*Neat and Efficient Flash Control Panel*

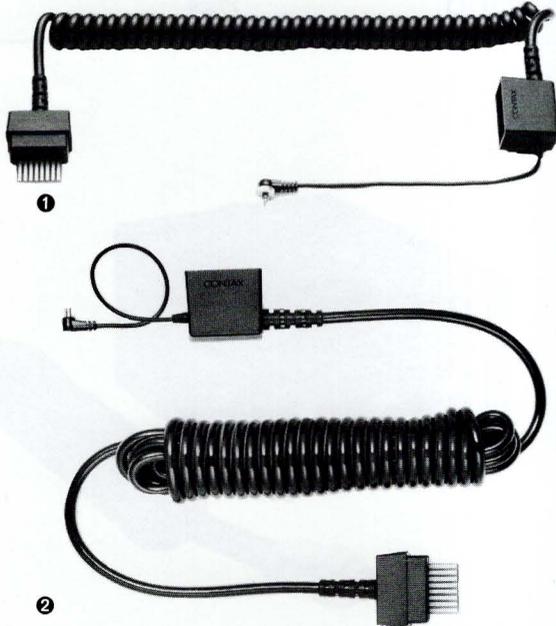


*Integral Shutter Release Button*



*Two-Way Swivel Flash Hand for Auto Bounce Flash*

## CONTAX RTF EXTERNAL SENSOR HOLDERS 100, 500



The RTF External Sensor Holders are designed to accept the sensor unit unplugged from the flash unit for off-camera flash on Auto. They feature a clip-on connector unit for direct mounting on the camera and two connector cords – one for plugging into the camera's release socket and the other into the socket on the flash unit. Sensor Holder 100 comes with a one-meter spiral cord; Holder 500 with a 5-meter straight cord.

When the External Sensor Holders are used, flash unit can be used off-camera and tilted or swiveled to any desired angle for most effective automatic bounce flash as well as direct flash. Adapter cord R-6SJ is provided for use with the Contax RTS.

- **Size:** holder section 36 x 31 x 36 mm (1-7/16 x 1-1/4 x 1-7/16 in.)
- **Weight:** ① SENSOR HOLDER 100 120g (4.2 ozs.) ② SENSOR HOLDER 500 230g (8.1 ozs.)

- ① RTF External Sensor Holder 100 Price .....
- ② RTF External Sensor Holder 500 Price .....



Adapter (R-6SJ)

## CONTAX RTF SLAVE UNIT

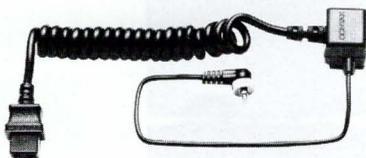
Price



For remote triggering of back or side-light use RTF 540, TLA-20 or other flash units when multiple light effects are desired, with no need for connecting cords. Plugs into the front section of the RTF 540 in place of the detachable Sensor.

- **Size:** 36 x 48 x 20 mm (1-7/16 x 1-7/8 x 13/16 in.)
- **Weight:** 12 grams (0.4 ozs.)

## CONTAX RTF SYNC-RELEASE CORDS



Normally used with the RTF540 unit for general flash photography. Synchronizes operation of the camera flash and motor drive or holder.

A screw-in terminal is also provided for the following accessories for use with the Contax RTS II Ovartz, Contax 137MD Quartz, Contax 139 Quartz and FX-D Quartz. An adaptor is provided for use with the Contax RTS.



Adapter (R-6SJ)

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## CONTAX RTF AC POWER UNIT (120V/220V) W/ CORD

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Price

RTF AC Power Unit 120/220V is designed to operate the Real Time Flash (RTF) 540 on AC household current. Provides faster recycling times than the RTF Power Pack. Comes with cord. Available in Europe.



\* Specifications and exterior design subject to change without prior notice.

RTF AC Power Unit 120/220V	Price .....
RTF AC Power Cord	Price .....

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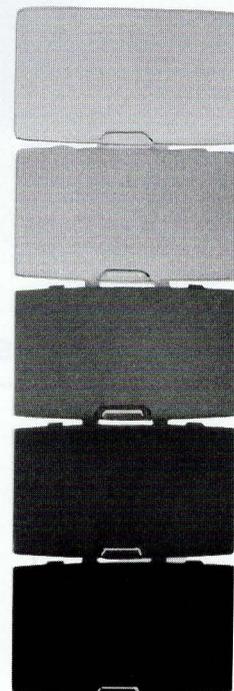
## CONTAX RTF COLOR PANELS (Red, Orange, Yellow, Green, Blue)

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Set Price

Set of red orange, yellow, green and blue filters. Each fits over the flash head for special effects photography without changing the angle of illumination.

● Size: 80 x 49mm (3-1/8 x 2 in.)

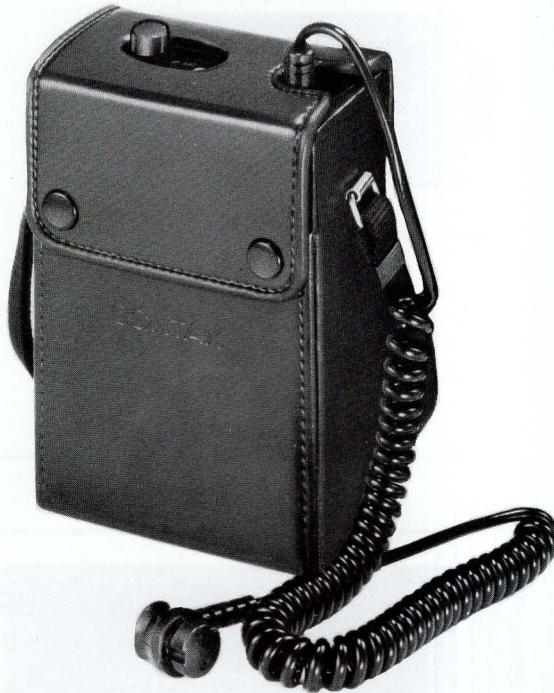


● RTF Color Panel (Red)	Price .....
● RTF Color Panel (Orange)	Price .....
● RTF Color Panel (Yellow)	Price .....
● RTF Color Panel (Green)	Price .....
● RTF Color Panel (Blue)	Price .....

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## CONTAX RTF POWER PACK SET

Price



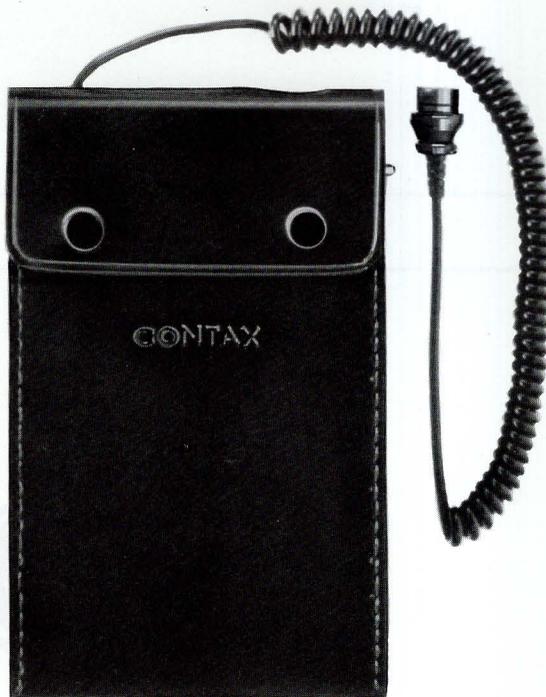
This unit is the most convenient power source for the Real Time Flash 540. It offers a choice of energizers: two RTW Battery Cases housing a total of twelve 1.5V AA size batteries, or two RTW Ni-Cd Packs. Offers up to 100 flashes with alkaline batteries at GN 40 (ASA 100 in meters); 300 flashes at GN 7. With RTW Ni-Cd packs: offers 50 flashes per charge at GN 40; 150 at GN 7 with faster recycling times. Set includes Power Pack Jacket, PK Strap.

- **Size:** 95 x 38 x 148.5mm (w/o Jacket) (3-6/8 x 1-1/2 x 5-7/8 in.)
- **Weight:** 370g (w/o Battery) (13.1 ozs.)

● RTF Power Pack	Price .....
● RTF Power Pack Jacket	Price .....
● RTW Battery Cases	Price .....
● PK Strap	Price .....

## CONTAX RTF 510V BATTERY PACK SET

Price



A high-voltage power unit for the RTF 540 offering the fastest recycling times and the maximum number of flashes per battery replacement of all three power sources: up to 300 flashes at GN 40 (ASA 100 in meters); 1200 at GN 7. Accommodates one 510V high-voltage battery and four AA size penlight batteries (for the transistor control circuit). Set includes RTF 510V Battery Pack, RTF Battery Pack Jacket, PK Strap.

- **Size:** 114 x 47 x 201mm (w/o Jacket) (4-1/2 x 1-7/8 x 7-15/16 in.)
- **Weight:** 360g (w/o Battery) (12.7 ozs.)

● RTF (510V) Battery Pack	Price .....
● RTF (510V) Battery Pack Jacket	Price .....
● PK Strap	Price .....

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## CONTAX RTW Ni-Cd PACK

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Price

This unit serves as a rechargeable power source for Contax Real Time Winder, the Medical 100 Lens and the RTF 540 electronic flash unit. It features a set of six 1.2V AA type nickel-cadmium batteries sealed inside a plastic cartridge. Measures 108 x 45 x 16.6mm.

When recharging, the RTW Charging Adapter and Contax Ni-Cd Battery Charger must be used.

- **Size:** 108 x 45 x 16.5 mm (4-1/4 x 1-3/4 x 5/8 in.)
- **Weight:** 145 grams (5.1 ozs.)



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## CONTAX RTW CHARGING ADAPTER

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Price

The exclusive RTW Charging Adapter must be used in concert with the Contax Ni-Cd Battery Charger for recharging the RTW Ni-Cd Pack which serves as a power source for the camera accessories mentioned above.

- **Input:** 9V ● **Size:** 51 x 134 x 18mm (2 x 5-1/4 x 11/16 in.)
- **Weight:** 35 grams (1.2 ozs.)



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## CONTAX Ni-Cd BATTERY CHARGER

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Price

The Ni-Cd Battery Charger connects to the RTW Charging Adapter for recharging the RTW Ni-Cd Pack.

- **Charging Time:** Approx. 10 hours for full charge ● **Input:** AC 100V, 120V or 220V (three types available for different line voltages) ● **Output:** DC 8.7V 45 mA

- 100V model **Size:** 37 x 47 x 33 mm (1-7/16 x 1-7/8 x 1-5/16 in.) **Weight:** 105 grams (3.7 ozs.)

Price .....

- 120V model **Size:** 37 x 45 x 35.5 mm (1-7/16 x 1-6/8 x 1-3/8 in.) **Weight:** 125 grams (4.4 ozs.)

Price .....

- 220V model **Size:** 42.5 x 53.5 x 53.5 mm (1-5/8 x 2-1/8 x 2-1/8 in.) **Weight:** 150 grams (5.3 ozs.)

Price .....



## CONTAX TLA ELECTRONIC FLASH SYSTEM



*Real Time Flash 540 (w/TLA Adapter)*



*TLA 30*

*TLA 20*



*TLA Multi-Flash/Extension System*

The CONTAX TLA Electronic Flash System provides precisely accurate, through-the-lens metering of electronic flash exposures for both full flash-exposure accuracy and consistency and increased potential for creative flash techniques. TLA flash techniques can be employed with the CONTAX Series camera bodies. TLA System equipment includes the following items:

- Real Time Flash 540 (when equipped with the RTF540 TLA Adapter)

- TLA 30 electronic flash unit

- TLA 20 electronic flash unit

- TLA Multi-Flash/Extension System equipment

Use of the TLA System provides the photographer with two major advantages: the accuracy of TTL metering of flash exposures and the convenience of direct X-synchronization. In addition, valuable operating indications are provided directly in the viewfinder of the camera when the TLA System is in use.

### 1. Through-The-Lens Flash Metering:

With the TLA System, all flash exposures are metered by a special Silicon Photo Diode (SPD) cell in the camera body. This SPD is sensitive and responsive enough to changes in light to accurately measure even the extremely rapid output of electronic flash. Reflected light from the main subject is measured by the SPD, through-the-lens. When the proper amount of light has been cast on the subject for an accurate exposure according to the aperture in use and the sensitivity of the film, the SPD relays a command to the central processing unit of the camera to cut off output from the flash unit.

Thus, unlike ordinary auto-flash equipment — which requires compensation for such factors as filtering, etc. — the TLA System meters the actual flash exposure of the film so there is never any need to perform exposure calculations or to compensate for lighting techniques.

### 2. Direct X-Synchronization:

A great many flash photographs have been ruined because the camera was accidentally set at a shutter speed which cannot handle X-synchronization for electronic flash. With a focal-plane shutter camera, flash synchronization must be made at a speed which allows for the complete opening of the shutter curtain. Otherwise, a dark horizontal or vertical band will be formed across the photograph, depending on whether the shutter runs horizontally or vertically.

But with the TLA System, a 'Fail-Safe' automatic system for X-synchronization protects against such errors. Whenever the flash unit is turned ON, and is fully charged and ready to fire, the camera is automatically set for the proper

## CONTAX RTF 540 TLA ADAPTER

Price

The special new TLA Adapter for the RTF540 unit provides full flash dedication and TTL flash metering with the Contax Series camera bodies. The TLA Adapter connects the camera hot-shoe with the flash unit, plugging into the connection when the remote flash sensor is removed from the flash unit. When used with this adapter, the RTF540 incorporates the same dedicated flash capabilities and TTL metering as either the TLA 30 or TLA 20 flash units.

**Note:**

- 1 This adapter works for all  $\text{\textcircled{T}}$  model RTF 540 units. Older RTF 540 units without the  $\text{\textcircled{T}}$  mark can be adapted for TLA System use at your nearest Contax Service Center.
- 2 137 Grip Adapter must be used when fitting RTF 540 to 137 MD Quartz.



## TLA MULTI-FLASH/EXTENSION SYSTEM

Price

This special collection of connecting and adapting equipment provides professional-level capabilities for employing multiple flash units, on or off-camera, while retaining the full Through-The-Lens metering capabilities of the Contax TLA series of electronic flash units.

Equipment in this system is employed as follows:

**TLA Extension Connector S** — provides connection for TLA 20 flash unit to Extension Cords (S) or (SS) for off-camera use in multiple flash situations. [\*Indicates this item is required for connection with TLA20.]

**TLA Multi-Flash Connector S** — four-plug connector to link camera with up to three TLA flash units.

**TLA Extension Cord 100** — provides direct connection of TLA 20 or TLA 30 to camera through hot-shoe.

**TLA Extension Cord 100 S** — provides direct connection of camera to TLA flash unit (\*) or to TLA Multi-Flash Connector S.

**TLA Extension Cord 100 SS** — provides direct connection of TLA flash unit (\*) to TLA Multi-Flash Connector S for multiple flash techniques.

**TLA Extension Cord 300 SS** — provides same connections as (100 SS) except with extended 3-meter length.

**TLA Attachment Adapter** — provides tripod/lightstand connection for TLA 30 flash unit.

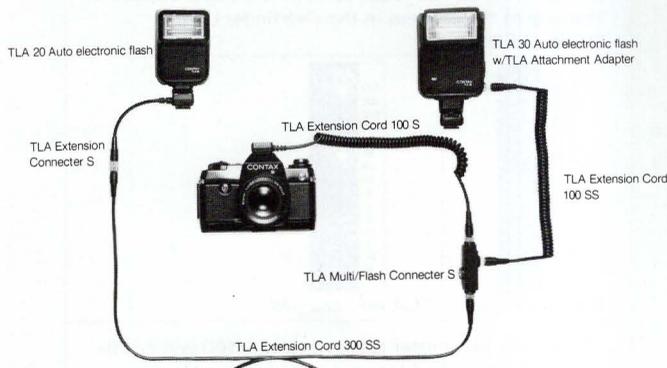
Please note that a wide variety of creative techniques employing this equipment can be used, retaining direct TTL flash metering of exposures, in addition to the basic connections described above.



- ① TLA Extension Cord 100
- ② TLA Extension Cord 100S
- ③ TLA Extension Cord 100SS
- ④ TLA Extension Cord 300SS
- ⑤ TLA Extension Connector S
- ⑥ TLA Multi-Flash Connector S
- ⑦ TLA Attachment Adapter

## CONTAX TLA 30

Price



Total versatility and full creative control over electronic flash exposures are provided by the Contax TLA 30 Auto flash unit. Used with the Contax Series cameras, the TLA 30 provides fully dedicated flash control, along with direct, TTL metering of flash exposures at the film plane.

TTL flash metering provides absolute accuracy in exposure, since light is measured at the film plane and according to the sensitivity of the film. Special SPD (Silicon Photo Diode) cells in both cameras measure the amount of light striking the film, and cut off flash output instantly when the proper exposure has been made. This allows complete freedom in choosing aperture settings, and allows the photographer to experiment with a wide range of creative flash techniques as well. For use with other cameras, the TLA 30 features two additional AUTO settings for exposure control through the built-in sensor or manual settings at full, 1/4 and 1/16 power. For simple on-camera bounce flash capability, the flash head of the TLA 30 rotates through a vertical angle from  $-15^{\circ}$  to  $+90^{\circ}$  off center. Off-camera, the TLA 30 can be used by itself or in conjunction with other units through the TLA Multi-Flash/Extension System.

The unit is rated at a Guide Number of 30 (ASA100/meters) for high output and wide-ranging capabilities.

- **Type:** Clip-on automated electronic flash with TTL flash metering capability and built-in SPD sensor for normal automated thyristor-control. Full manual control possible.
- **Mounting:** Direct to camera hot-shoe, or off-camera through TLA Multi-Flash/Extension System.
- **Control Circuitry:** Thyristorized, energy-saving circuits.
- **Guide Number:** Auto GN, 30~4 (ASA100/meters); manual GN, 30, 15, 7.5.
- **Flash Control:** TTL metering through SPD measuring light at film plane with Contax 137 MD Quartz and 139 Quartz, two-aperture auto control with built-in SPD for other cameras.
- **Coverage Angle:**  $60^{\circ}$  horizontal,  $45^{\circ}$  vertical ( $=35\text{mm}$  lens); with special wide panel  $76^{\circ}$  horizontal,  $58^{\circ}$  vertical ( $=24\text{mm}$  lens).
- **Bounce Flash:** Flash head tilts through vertical angle from  $-15^{\circ}$  to  $+90^{\circ}$ .
- **Color Balance:** Daylight.
- **Power Source:** Four 1.5V AA-size batteries (rechargeable NiCds usable).
- **Total Power:** 100 full-power flashes with alkaline batteries, 40 with manganese, 60 with NiCd. Recycling time at GN30 is 9 seconds; for two frames per second use GN is 7.5.
- **Controls:** ON/OFF switch with settings for TTL, two-aperture auto operation, three manual modes. Test button built-in
- **Standard Set:** TLA30 unit, wide panel, case.
- **Optional Accessories:** Wide range of extension cords and connecting equipment in the TLA Multi-Flash/Extension system.
- **Dimensions:** 80 x 120 x 60 mm ( $3\text{-}1/8$  x  $4\text{-}3/4$  x  $2\text{-}1/4$  in.)
- **Weight:** 305 grams (w/o batteries) (10.8 ozs.)

X-synchronization shutter speed. If the camera is in the AE operating mode, the proper X speed will be set automatically. In the manual mode, the proper X speed will be automatically set if the shutter speed selector is positioned at any speed higher than proper X-synch.

At the same time, however, the creative possibilities of slow shutter speed-electronic flash exposure are not lost, since any speed slower than the maximum X-synch speed can be manually set or locked into the AE system.

And exposure is always accurate also, since the camera will revert to the proper AE or manually set shutter speed at any time that the flash unit is not ready to fire.

[Examples: 137 MA Quartz + TLA-30 unit — camera's AE exposure metering indicates shutter speed of 1/15 sec. When TLA-30 is fully charged, camera shutter speed automatically switches to proper maximum X-synch of 1/60. Immediately after flash exposure, camera reverts to proper AE speed of 1/15 until TLA-30 has recycled and is ready to discharge again. AE speed of 1/15 can be employed by shifting to AE Lock camera setting.

139 Quartz + RTF540 — camera set for manual 1/500 shutter speed. When the RTF540 is fully charged, the camera will automatically shift to the proper X-synch speed of 1/100, reverting to manual speed after flash exposure if flash unit requires recycling for discharge.]

### 3. Viewfinder Flash-Data Indication

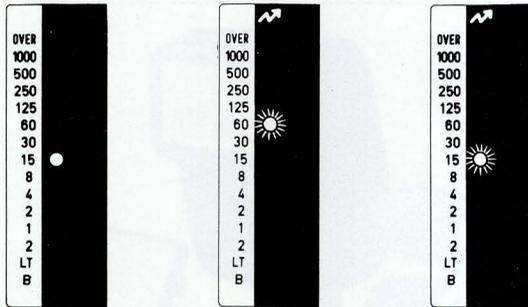
When employing the TLA System, the photographer receives valuable information on the status of the flash unit through the camera's viewfinder LED readout system. When the flash unit is fully charged, a special green '∞' LED will light up to indicate that the flash is ready to use. Following flash exposure, the '∞' indicator will flicker if flash exposure has been correct. Should the '∞' fail to flicker after a flash shot, the aperture should be opened wider to allow increased exposure of the film, or the flash unit moved closer to the subject.

In addition, full information on the shutter speed is provided during flash photography. When the unit is fully charged and the green '∞' indicator lights, the LED readout will also show what shutter speed for X-synch is in use. This will be the standard X-synch speed during AE or high-speed manual conditions, or a slower (X-synch) speed if set manually or locked in by the AE Lock function.

Should the flash unit not be fully charged, or be turned off, the LED indicators will immediately shift back to tell the photographer that the proper AE or manually-set shutter speed is back in use.

TLA Flash Data		
	139 QUARTZ w/TLA 20	137 MA QUARTZ w/TLA 30
Flash OFF	Flash ON	
AE setting	TLA unit charged	TLA unit charged
** If the auto-setting of proper flash-sync speed results in over-exposure of the scene, the OVER LED will flash after a shot to warn that a smaller aperture must be selected.		
AE Lock ON	TLA unit charged	TLA unit charged
*When employing a shutter speed slower than that indicated by the camera's metering system, a smaller lens aperture will be required to prevent over-exposure. Warning of this is given in the viewfinder by the OVER LED.		
Manual Setting	TLA unit charged.	
*Manually-set shutter speeds below 1/100 will not be changed when the flash unit is set for use. However, speeds over 1/100 will automatically switch to the proper flash-sync speed. If overall exposure is then too great, the OVER LED indicator will flicker after the shot, and a smaller aperture must be selected.		

## 137 MA Quartz + TLA unit

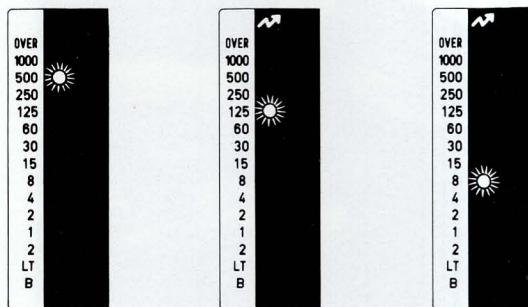


*AE setting*

*TLA unit charged*

*TLA unit charged, AE Lock*

## 139 Quartz + TLA unit



*Manual setting*

*TLA unit charged*

*Manual slow shutter w/TLA unit charged*

[Examples: 137 MA Quartz with AE indication of 1/15 sec. When the TLA System flash is ready to fire, the viewfinder display will show the LED at the 1/60 indicator flickering. If AE Lock function is used to freeze the 1/15 speed, that LED indicator will flicker.

139 Quartz at manual speed of 1/500 sec. When a TLA System unit is fully charged, the viewfinder display will show the 1/125 (flash synch is 1/100, 1/125 indicator is used for this purpose) indicator LED flickering. After a flash shot, the viewfinder will revert to a steadily lit 1/500 LED indication until the flash unit is fully recharged and ready to fire again.

Set manually at a 1/8 sec. speed, the 1/8 LED indicator will flicker when a TLA unit is ready for use.

These three major advantages make the CONTAX TLA Electronic Flash System the easiest to use and most creative path to flash photography available today. In particular, TTL metering of all electronic flash exposures has enormous advantages in the field of close-up/macro photography. No exposure calculation need be made, as the camera/flash unit combination adjusts automatically for a proper exposure, not matter what magnification ratio may be used.

In addition, the TLA System is uniquely suited to the task of creative slide copying. With a bellows/slide copier system and TLA flash, the photographer can copy slides, adjusting the framing, adding filtration and increasing magnification at will, without fear of exposure difficulties. By using a connecting cord from the TLA Multi-Flash/Extension System to remove the flash from the camera and position it behind the slide copier, perfectly exposed copies can be made with no exposure calculation at all.



*137 MD Quartz + Auto Extension Bellows PC + S-Planner T\* f/2,8 60mm + Slide Copier + TLA 30*

## CONTAX TLA-20 AUTO FLASH

Price

### CONTAX TLA-20 AUTO FLASH

#### Total Accuracy In Flash Exposure Control

Direct metering of flash exposures at the film plane is possible with the combination of the TLA-20 Auto Flash and either the CONTAX 139 Quartz, CONTAX 137 MA Quartz, or Contax RTSII Quartz. Attached directly to the camera body and set for "AUTO" operation, the TLA-20 works completely through the SPD (silicon photo diode) metering systems of either camera for complete control of flash exposure, at any aperture, because the camera meters flash intensity during exposure and cuts off flash output precisely as exposure values become perfect.

And with the TLA-20 Extension Cord 100, the flash unit can be operated from any position, a fantastic advantage for bounce-flash techniques, close-ups, slide copying and other creative possibilities.

In addition, the TLA-20 features "Hi" and "Lo" manual settings for use at fixed flash intensities, or with other camera bodies. A special wide panel is included with the unit, expanding coverage to evenly illuminate the field of a 24mm wideangle lens.

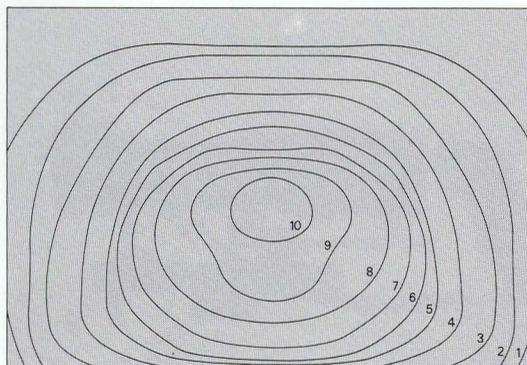
- **Guide number (ASA 100/m):** Auto; 4-20; manual; Hi: 20; Lo: 2.8
- **Recycle time:** 3-6 sec. (fast recycle at Lo for synch with winder)
- **Power source:** four 1.5V AA-size batteries
- **Angle of coverage:** 60° horizontal, 45° vertical (covering field of view of 35mm lens). With wide panel: 76° horizontal, 58° vertical (covering field of view of 24mm lens).
- **Standard set:** TLA-20 unit, wide panel, case.
- **Optional accessory:** Extension Cord 100.
- **Price:** . . . . .
- **Dimensions:** 66 (W) x 100 (H) x 71mm (D) [2-5/8 x 3-15/16 x 2-13/16 in.]
- **Weight:** 180 grams [6.4 ozs.] without batteries.



The TLA-20 Auto Flash system with extension cord and special wide angle panel.



With the TLA Extension Cord 100, the flash unit can be used for off-camera applications.



This shows the TTL metering pattern of the flash, heavily center-weighted to cut peripheral interference.

## CS-201 AUTO ELECTRONIC FLASH

Price



The CS-201 Auto is a special electronic flash unit designed for dedicated use with the YASHICA FX-D Quartz single-lens reflex camera. When used with the FX-D, the CS-201 provides full shutter/flash synchronization. Attached to the accessory hot-shoe of the FX-D, the CS-201 automatically signals the camera to switch to the proper X synchronization shutter speed (1/100 sec.) whenever the flash is fully charged and ready for use. This function operates in either auto or manual flash exposure mode, and whether the camera is operating in the AE or manual mode. However, with the camera in manual mode, shutter speed will switch to X only when the manually set speed is 1/125 sec. or faster. At speeds of 1/600 or slower the camera will retain the set shutter speed, since all such speeds are fully X-synchronizing. In addition, slow shutter speed flash photography can be employed in the camera's AE mode by use of the camera's AE Lock function to freeze any speed below 1/100 sec. When the flash unit is fully charged, a special green " ~ " LED in the camera viewfinder lights to indicate flash-ready condition. In addition, the camera flashes an LED warning and sounds an audible warning tone should the set aperture be too wide for flash exposures. In such cases, a smaller aperture must be set to prevent over-exposure of the photograph.

The CS-201 Auto is controlled by means of a simple three-position switch with settings for OFF, AUTO & MANUAL. It can be used with cameras other than the FX-D, in either AUTO or MANUAL modes, for ordinary, non-dedicated flash operation.

All other specifications of the CS-201 are identical to the Yashica CS-200 Auto unit, including the Guide Number of 20 (ASA 100/meters) for high-output capability, and auto exposure flash metering through a 20° sensor built into the flash itself.

- **Type:** Clip-on automatic electronic flash.
- **Power Output:** Guide Number 20 (ASA100/meters).
- **Coverage Angle:** Equivalent to field of view of 35mm wide-angle lens.
- **Synchronization:** Fully automated X synch control with Yashica FX-D Quartz camera via hot-shoe.
- **Color Balance:** Daylight.
- **Power Source:** Four 1.5V AA-size batteries.
- **Total Power:** 280 full-power flashes with alkaline batteries, 90 with manganese.
- **Recycling Time:** (At full-power) 6 seconds with alkaline batteries, 7 seconds with manganese.
- **Controls:** OFF/AUTO/MANUAL three-position switch, plus test button.
- **Dimensions:** 101 x 65 x 53 mm (4 x 2-9/16 x 2-1/16 in.)
- **Weight:** 150 grams (5.3 ozs.) (w/o batteries).

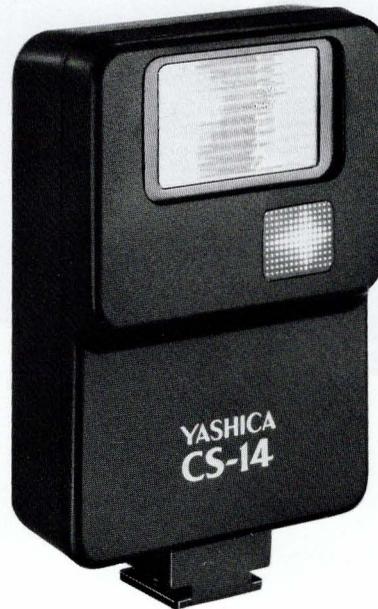
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## CS-14 ELECTRONIC FLASH

Price

A highly compact clip-on type electronic flash unit designed for use with both rangefinder and SLR cameras. The CS-14 features a guide number of 14 (ASA 100 in meters) and synchronizes directly via the camera's hotshoe. Extremely lightweight and easy to operate. Powered by two 1.5V AA-size penlight batteries.

• **Type** Clip-on electronic flash unit • **Guide Number 14** (ASA 100 in meters). • **Angular Coverage** Sufficient for a 38 mm wide-angle lens. • **Flash Synch** via hotshoe (direct X contact) • **Recycling Times** 9 sec. w/manganese batt.; 8 sec. w/alkaline-manganese batteries. • **Number of Flashes** 100 per set of manganese batt.; 300 per set of alkaline batteries. • **Power Source** two 1.5V AA-size penlight batteries. • **Size** 61 x 85 x 30mm (2-7/16 x 3-3/8 x 1-3/16 in.) • **Weight** 90 grams (2.9 ozs.) w/o batteries



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## CS-10 ELECTRONIC FLASH

Price

A super-compact electronic flash unit designed exclusive for hook up with cameras featuring a direct X (hotshoe) contact. Weighing a mere 60 grams, the CS-10 will fit neatly into the palm of your hand and hardly adds to the camera's bulk and weight. It is especially handy for use with the Yashica ME-1 in low-light shooting situations.

• **Type** Clip-on electronic flash unit • **Guide Number 10** (ASA 100 in meters) • **Flash Synch** via hotshoe (direct X) contact • **Angular Spread** 45 degrees vertical, 60 degrees horizontal (sufficient for a 35mm wide-angle lens) • **Recycling Time** 11 sec. w/alkaline-manganese battery • **Number of Flashes** 150 per set of alkaline-manganese battery • **Power Source** one 1.5V AA-size penlight battery (alkaline-manganese or Ni-Cd) • **Size** 62 x 42 x 34mm (2-7/16 x 1-11/16 x 1-3/8 in.) • **Weight** 60 grams (1.9 ozs.) w/o battery



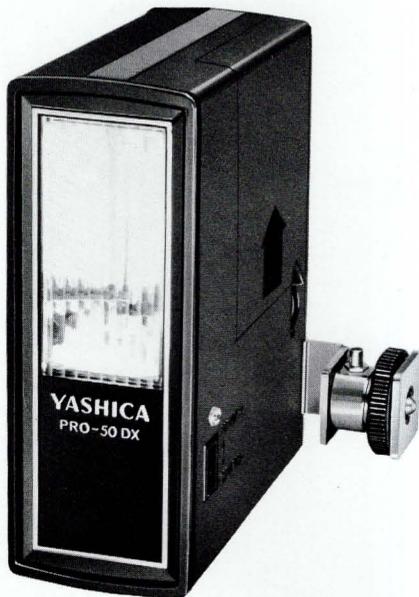
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## PRO-50DX ELECTRONIC FLASH

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Price

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Compact, swivel-mount AC/DC unit with sufficient light output to serve all photographic purposes. Permits use with or without synchro cord.

- **Guide Number:** 33 (ASA 25 in feet), 20 (ASA 100 in meters)
- **Coverage Angle:** 60° horizontal, 75° vertical
- **Power Source:** Three AA size manganese or alkaline batteries or AC mains (Adaptable to all line voltage ranges through setting of built-in voltage selector)
- **Recycling Time:** 4 to 6 sec. on AC; 6 to 7 sec. on batteries
- **Number of Flashes:** Up to 300 flashes per replacement of alkaline batteries; up to 60 flashes on manganese batteries
- **Flash Duration:** 1/1000 sec.
- **Color Temperature:** 5,800° K
- **Other Features:** Adjustable directshoe bracket, voltage selector, open flash/circuit test button
- **Size:** 36 x 96 x 70mm (1-13/32 x 3-3/4 x 2-3/4 in)
- **Weight:** 205 grams (7-1/4 ozs.)