This manual is for reference and historical purposes, all rights reserved.

This page is copyright © by M. Butkus, NJ.
This page may not be sold or distributed without the expressed permission of the producer.
I have no connection with any camera company.

On-line camera manual library
This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

If you find this manual useful, how about a donation of $3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you $7.50 for a electronic copy or $18.00 for a hard to read Xerox copy.

This will allow me to continue to buy new manuals and pay their shipping costs.
It'll make you feel better, won't it?

If you use Pay Pal or wish to use your credit card, click on the secure site on my main page.
PayPal Name Lynn@butkus.org
ULTIMA 300
ULTRA · COMPACT TRANSISTORIZED
ELECTRONIC FLASH UNIT

PRODUCT No. 39095
Your new Ultima 300 is a modern electronic flash unit embodying advanced transistor circuitry. Using self-contained, replaceable penlite batteries, it delivers the dependable light you need for color and black-and-white photography anywhere, anytime.

Even in bright daylight, the Ultima 300 helps improve the quality of your pictures by brightening shadow areas and bringing out details that would otherwise be lost.

With normal use and care, your Ultima 300 will perform reliably for many thousands of flash pictures.

**REMARKS:**

When the unit is used for the first time it may take up to two minutes until the pilot light glows, indicating that your Ultima 300 is ready to be fired. This is not an indication that the unit is defective. It merely indicates that the condenser which was not used for a while is taking up charge.
1. Lenticular flash window
2. Detachable Camera shoe bracket
3. Synch cord
4. Open-flash terminal
5. Battery compartment lid
6. On-Off switch
7. Ready light
8. Exposure calculator
ATTACHING TO CAMERA AND TO SHUTTER

Attach unit to camera by sliding bracket into camera accessory shoe and tightening the large screw. With unit securely mounted on camera, plug PC tip of synch cord into flash terminal on camera. Make certain that your camera shutter is set for X synchronization, and to the speed recommended for zero-delay electronic flash units. Use of shutter speeds 1/60th second or faster is recommended, where possible.

NOTE:
The duration of ULTIMA 300 flash is 1/1000th second, which will effectively stop fast action, regardless of shutter speed setting.
INSTALLING BATTERIES

Open battery compartment by pushing back the lid. Compartment holds 4 penlite batteries. Insert batteries with relation to (+) and (−) as shown on unit. Close compartment cover.

BATTERY OPERATION

Slide ON/OFF switch to ON position. You will hear a sustained high-pitched 'beep' indicating that the unit is in operation. When the ready-light begins to glow, the unit is ready to be fired. With fresh batteries, the ready-light will go on in about 3-5 seconds, and will recycle in about the same time after each flash.

A set of fresh zinc-carbon batteries will deliver about 150 flashes before replacement becomes necessary. A set of manganese-alkaline batteries will deliver about 3 times as many.
DETERMINING EXPOSURE

Rotate the outer ring of the Exposure calculator on the unit until the arrow points to the ASA (or DIN) speed rating for the film in use. The correct lens aperture will be found on the inner dial adjacent to the number representing the distance from the unit to the subject.

If, for example, you are using ASA 25 film, photographing a subject 7 feet away, this indicated lens aperture would be f4.

Another method for obtaining the correct f stop is the use of film guide numbers. Dividing the guide number by the subject distance gives the numerical value of the f-stop to be used. For example, using ASA 200 film, the guide number would be 80. At 10 feet, the aperture would then be 80 \div 10, or f8.
SYNCHRO-DAYLIGHT FLASH PHOTOGRAPHY

The ULTIMA 300 helps you get better pictures outdoors too. Use it on cloudy days to add sparkle to shots that would otherwise look dull. On bright days, keep the sun behind your subject and use the flash to brighten the shadow area.

You’ll get natural facial expressions, without squinting eyes, and your pictures will show a distinctive, professional quality.

The color balance of the ULTIMA 300 flash is ideal for use with daylight type color films as black-and-white.

A simple method for determining synchro-daylight exposure is to find the lens aperture required for the flash by means of the exposure calculator, and use the shutter speed required for that aperture as determined with an exposure meter.

Naturally, the camera must have provision for X synchronization at that shutter speed.
OPEN FLASH

You can fire the Ultima 300 by touching the PC tip of the synch cord to the open-flash terminal at the back of the mounting bracket. This enables you to make flash shots with cameras lacking X-synch or with the unit detached from the camera. The shutter must be set to "B" or "T" and held open while the flash is fired.

This feature also serves for testing the unit and for checking battery condition.
SPECIFICATIONS

Power source
4 standard penlight batteries

Guide number with Kodachrome II (ASA 25)
30 (for distances in feet)

Recycling time
3-5 seconds

Battery life
carbon-zinc, approx. 150 flashes per set;
manganese-alkaline, approx. 450 flashes;
nickel-cad., up to 450 flashes.

Flash duration
1/1,000th second

Angle of coverage
65°

Color temperature
5800° K