

THE SUBMINIATURE TIMES

The Subminiature Times is published monthly by Doylejet, P.O. Box 60311, Houston, TX. 77205 (713) 443-3409

Supporting 110, 17.5mm, 16mm, 9.5mm, 8mm, 4mm, 1mm, Microdot, and Electronic Still Photography.

VIVITAR 110 POCKET CAMERAS



OPUS 20 CAMERA

- Palm size precision 110
- Uses easy-to-load cartridge film
- 21mm f/5.6 lens
- Focus Free
- Motorized film advance
- Auto flash on & off
- Red-eye reduction system
- Also available in a zippered Photo Touring Set with Kodak film & Duracell batteries
- Power source: 2 AAA alkaline or one 3V lithium battery

Opus 20

Standard Box 063229
 Clamshell 063230
 Photo Touring Set 988600
 3V lithium battery 873524



OPUS 10 CAMERA

- Palm size precision 110
- Uses easy-to-load cartridge film
- 21mm f/5.6 lens
- Focus Free
- Manual film advance
- Electronic flash
- Red-eye reduction system
- Power source: 2 AAA alkaline batteries

Opus 10

Standard Box 063227
 Clamshell 063228



Pocket camera 110
 camera with motorized
 film advance, built-in
 flash and red-eye
 reduction.

Compact 110 camera.
 Focus-free with easy
 manual operation and
 red-eye reduction.

Both include film and batteries.



39⁹⁹

Reg. 49.99

19⁹⁹

Reg. 24.99

THE VANGUARD of a styling change in entry level subminiatures: The Vivitar Opus series 20 and 10. The '20 can automatically choose shutter speeds from 1/60 to 1/1000 of a sec. The same cameras wearing TARGET house brand PocketMate logos will be on sale at discount prices starting 7/25/93.

SUBMINIATURE "USERS" BECOME CLASSIC by dint of their small size or exceptional optics. When other more famous pocket cameras have finally been relegated to a showcase, someone somewhere will still be using a Steky.

The Steky was introduced in 1947 by The Asahi Musen Company of Japan. It was the first of the Japanese cameras to use 16mm film in a cassette. A number of accessories (see list) made it quite versatile.

In 1947 there were any number of cameras jockeying for position in the growing pocket camera market, like the Minox and Sanwa Mycro. The Steky, however, used an interchangeable lens in a C mount, the same as the one used on millions of home movie cameras. Thus the basic 3.5/25mm Stekinar Anastigmat supplied with the camera was just a starting point for more ambitious photography.

IN THE DARKROOM

Had the Steky been easier to respool and operate, the camera might be more popular with casual hobbyists. The mechanisms are set up unlike any other. The most valuable accessory has to be the instruction sheet. We are indebted to Mr. R. Hutcherson of Houston, TX., for supplying us with an original copy to share with our readers.

To load the camera, a short length of 16mm film is wound onto a very tiny spool which is then placed inside a cassette. The instructions advise, "Place cover on take-up spool after it is inserted in place." This is fine if you have fingers like a spider. Everyone else will find it easier to close both cassettes first, and thread the film, while gently pushing both cassettes down into the camera. It's the exact same technique used for the Yashica Y-16 cartridge.

IN THE FIELD

The Steky doesn't have double exposure prevention, nor is the film wind coupled to the shutter reset or frame counter. But the frame counter must be reset after each exposure or the film cannot be advanced. In practice, the sequence of: push shutter - pull counter button - turn winder knob till the counter button snaps back - takes less than a second. But you should practice without film or your first field trip could be frustrating. It is a lot easier on the camera (and the film) if you make your exposures as soon as you see the reset button jiggle, rather than continue to wind the film to make the button snap back hard, like setting a fish hook. Also, if you ever tape the film to the supply side spool, don't let the tape run through the camera. It's better to add extra film, or unload the camera in the dark rather than let adhesive tape run through the light trap ma-

terial in a reuseable cassette. Pieces of it will show up on the next roll of film.

A TUBA PLAYER'S TIMING

One of the most difficult instruments to synchronize in a band is a tuba, because timing is required to start air moving into the mouthpiece just before it needs to be heard. Which is why high school bands sound off-tempo. It isn't for lack of effort.

The shutter release arm on the Steky goes through a 90° arc to trip the shutter. If your photography requires that you catch a precise moment, push the release at least halfway down while you frame the scene in the viewfinder. Then make a normal stroke when it's needed. Without this little tuba player's head start your action photo timing will be slow by $\frac{1}{2}$ second.

FOR COLLECTORS

The various models of the camera were essentially the same. Stripped of all artifice to a box, a lens, and a shutter, it's the quintessential 'minimal' 16mm camera.

The Model IIIB was introduced in 1954. It replaced the filter rest knob with an accessory shoe, and included a flash terminal with synchronization at all shutter speeds. The serial numbers are inside, on the bottom of the shutter casing.

Of all the Steky models, a pristine IIIB will usually command the highest price. The camera is easy to find in the U.S. where it sold in the millions.

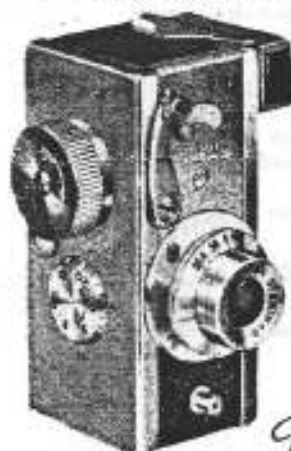
ON A DAY TO DAY BASIS

The bar type subminiatures are easier to carry than a Steky, and easier to reload. But consider a Steky if you'd like a change from your current format to 10mm x 14mm. Or, if you need the versatility of interchangeable lenses. Some of the very best are available in the C mount. One powerhouse, the Kern Vario Switar f/1.9 16-100mm Zoom can be found for less than \$100. The Wollensak 2.5/6.5mm Cine Raptar is a real sleeper, selling in camera show 'pickem' bins for about \$3, it stops down to f/22. Outdoors or macro there's never a need to close-focus. Everything from infinity to the front element of the lens comes in just fine. The camera, lens, and three cassettes will fit in your shirt pocket!

INSTRUCTION FOR USING

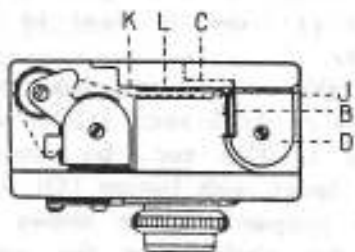
The Steky

16 mm STILL CAMERA



a Professional

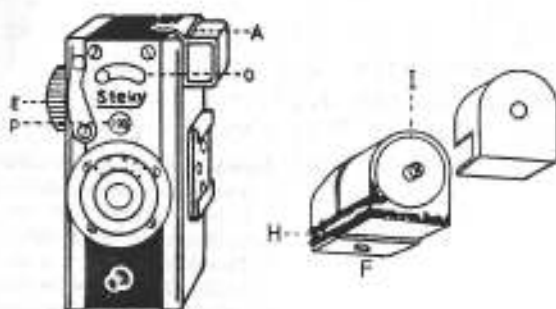
PRECISION MADE POCKET SIZE CAMERA



Always hold the camera with the lens toward you when loading or unloading.

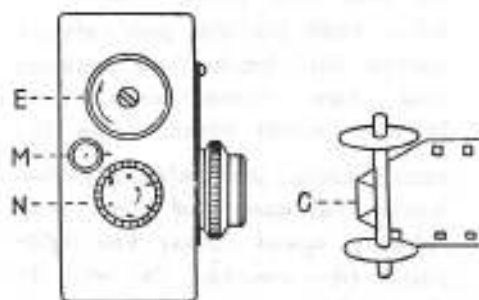
- 1 Hold the camera in your left hand, with lens facing you. Place the nails of your thumb and forefinger of the right hand under the spring-catch (A) at the top of the camera. Lift and pull.
- 2 Push the film pressure plate lever down (B) to the dotted position as indicated in the diagram. (C)
- 3 Lift out cartridge at the right (D). This should be empty since the take-up screw is at the left (E).

- 4 Take this cartridge and hold in position so that the felt film-gate faces left as in dia-



gram (F). pull the top off this cartridge and remove spool.

- 5 Pull out film from the new cartridge until $2\frac{1}{2}$ inches are exposed. Hold with light side toward lens. Bend back tip of film about $\frac{1}{4}$ inch and insert thru slot in take-up spool (G).
- 6 Spread film gate apart (H) with thumb nail and thread the film thru the film-gate in the cartridge. (Note — DON'T COVER THE TAKE-UP SPOOL (I).) Place loaded cartridge in — at right of camera (J).
- 7 Loop film thru camera as indicated in diagram (K). Turn take-up screw (E) (underneath camera in this position) until it catches and moves film.
- 8 Place cover on take-up



spool after it is inserted in place.



Steky IIIB

Accessories and related equipment:

1. Ever-ready carry case, yellow filter, lens cap and wooden case included in price.
2. Flash attachment fits into accessory clip of camera, may be used with other cameras, non-collapsible bowl reflector, \$5.25.
3. Developing tank is a modified Eclipse reel tank, accepting 16mm as well as 35mm and 828, 127, 120 and 616 roll films, \$1.95.
4. Telephoto lenses are 40mm Steky f/5.6 and Stekaton f/3.2; both stop down to f/16 and focus from 3 1/2 feet to infinity; with leather case and viewfinder mask; f/5.6, \$13.25; f/3.2, \$17.95.
5. Wide-angle converter transforms regular Steky 25mm lens into 17mm wide angle lens; with leather case and viewing frame, \$11.25.
6. Sunshade and filter kit for use with 25mm lens; 4 filters in leather case: haze, blue conversion, red and green; \$4.95.
7. Tripod, with swivel-top holder for table top use; extendable from 7 to 10"; \$2.65.
8. Extension tube movie camera adapter permits use of telephoto lenses with any 8mm movie camera with standard screw-in mount; \$1.95.

Distributor: Wilmot Sales Corp.

⑨ Release film pressure plate (L)..

⑩ Put cover back by putting bottom on first, fitting the hole in the cover over the lock-pin, press side in position.

⑪ Now turn take-up screw (E) until it locks in place. Pull release button (M) back and give one more turn until it locks.

⑫ Turn counter in direction of arrow and set red dot on the first mark after zero, between zero and four. This will be your first picture.

After each picture, pull release button (M) back then release and turn immediately until take-up spool locks. Take the next picture, pull release button back, release and turn until take-up spool locks; the automatic film counter (N) will indicate how many pictures you have taken. After your film is all used up, the take-up spool will no longer lock.

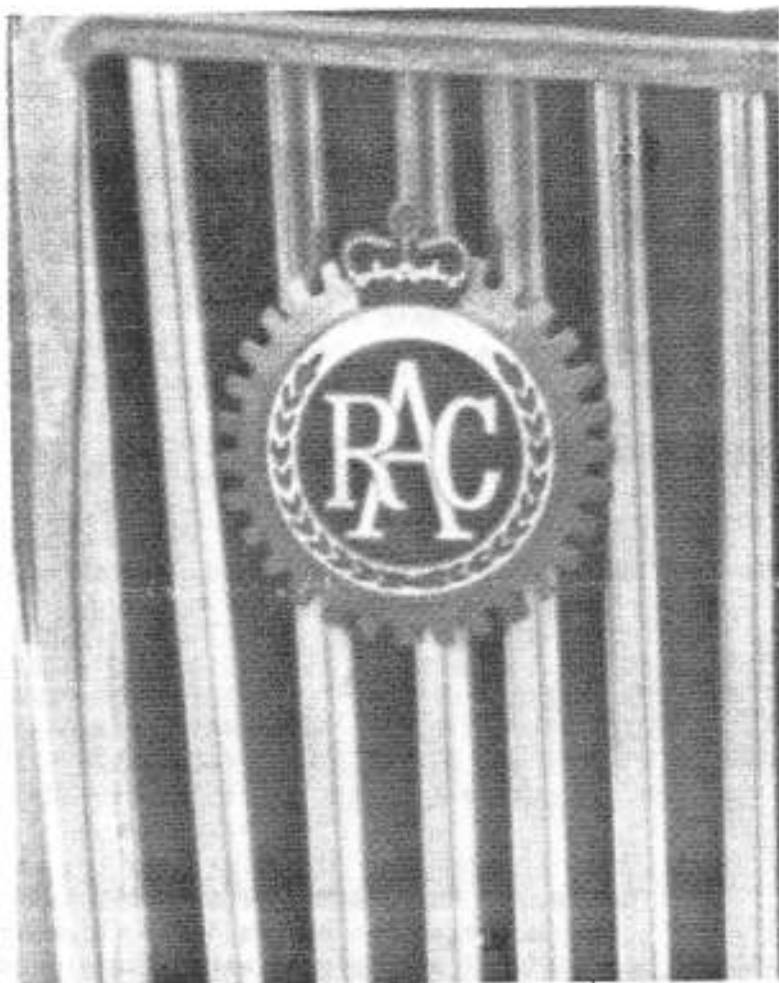
HOW TO USE YOUR STEKY

FOCUS — Your Steky is always in focus. It will give clear pictures from 3 feet to infinity.

SPEEDS — You can take pictures at 1/25 sec., 1/50th sec. and 1/100th sec., by moving the lever with button (O) until the proper number shows up in the circle over the name (P). Bulb exposure means that the shutter will remain open as long as you keep the tripping lever pinned down.

FLASH: Strobe units will fully synchronize at any shutter setting. Use only class "F" flashbulbs at 1/25 second with 3 volt battery flashgun.

BLACK & WHITE FILM					
OUTDOORS	BRIGHT SUN	3 1/2' DOORS ON SUNNY DAY	HAZY SUN	CLOUDY	CLOUDY BULB
LIGHT COLORS	f16 1/100	f8 1/100	f11 1/50	f8 1/50	f4 1/50
DARK COLORS	f11 1/100	f5.6 1/50	f5.6 1/50	f4 1/50	f3.5 1/25
ACTION AVERAGE COLORS	f16 1/100	f5.6 1/100	f4 1/100	f3.5 1/100	f3.5 1/50
IN DOORS AT WINDOW	f11 1/100	f4 1/50	f3.5 1/25	f3.5 1/25	f3.5 B
COLOR FILM					
OUTDOORS ONLY	f8 1/50	f5.6 1/50	f5.6 1/50	f4.5 1/50	f3.5 1/25
DO NOT USE YELLOW FILTER WITH COLOR FILM					



Camera: Steky IIIB
 Lens: Stekinar 3.5/25mm
 Exposure: f/5.6 @ 1/100
 Film: Eastman 1461 + 20 sec. prefog
 Developer: Agfa Rodinal 1:200

THE STEKY PRODUCED some of the sharpest negatives we've ever handled. The 4 x 6" print was made using a 6 second exposure on Kodabrome II RC paper. The 21 x 30" at top right (life size) took 4 minutes with a 17mm enlarging lens set at f/8. The medallion could easily have been enlarged to twice life size without image break up. On an unscreened print every jewel in the crown is clearly distinct. There are ten same-size stones on each shoulder.

ADD A NEW NAME to the film supplier list. Bob Slattery at Filmdex has the 1461 that we used for this test. A 16mm x 100' roll is currently \$5.42.

Filmdex has the microfilms you'll be seeing in upcoming issues, including new single-perforated stock. (The noise you heard was a Rollei-16 owner sitting up.) Bob Slattery, Filmdex Inc., Centreville, VA. 1-800-336-0192, (703) 631-0600.

PHOTO CONTESTS that specifically include subminiature cameras are rare indeed. Recent buyers of the KnightHawk UAV (see newsletter #51) received information on the monthly contest being held by USAC. For more info contact USAC HQ, 4576 Claire Chennault, Hangar 7, Dallas, TX 75248. (214) 250-1914.

MINOLTA-16 QT The PX-30 batteries are available from Electrotex, Houston, TX. (713) 695-6851, 526-3456.

FOR SALE Kodak Ektachrome 7242 or 7241 16mm x 400' \$9.98 ea. Fairstryk Inc., 445 W 50th St., NYC, NY 10019 (212) 757-4755.

WANTED: A copy of "The Minox Companion" by J.D. Cooper. Published by Universal Photo Books in the early 60's. 104 pgs. Matthew Russel, 33 Woodridge Dr., Mendon, NY 14506 (716) 582-1319.

THE SUBMINIATURE TIMES QUICKFINDER 7/93

B & H Gun Camera	\$45 BC
Micky-Matic 110	39 CCG
Minolta-16 P	29 W
Minox binoc adapter(s)	Call B
"Minox Guide"	15 W
"Minox Pocket Companion"	15 W
Novoflex car camera mount	139 B
PC 420 Electronic watch/cam	1595 B
Right angle finder for Minox III	34 B
Steky I	125 CCG
Steky IIIB	89 BC
TASCO 8000 w/100mm + 70mm	239 K
8000 w/100, 70, + tripod	235 K
8000 w/100, 70	172 K
Tessina chr, + case	549 B
Tessina daylight loader	69 K
Winder(s) for Pentax 110	49 B
B Brooklyn Camera	(718) 462-2892
BC Bill Cameta's	(516) 691-1190
BH B & H Photo	(212) 807-7474
CCG Columbus Camera Group	(614) 267-0686
K KEH	(404) 892-5522
W Woodmere Camera	(516) 599-6013

IMAGING AND PHOTOGRAPHIC TECHNOLOGY is a unique program that blends instruction in professional photography with specialized education in technical, industrial and scientific imaging applications, including graphic arts, color technology, digital imaging, and electronic photography.

In addition to traditional course work, graduates of the program complete at least two blocks of cooperative education in an industry setting. For a copy of the brochure or more information: Andrew Dadidhazy, The College of Imaging Arts and Sciences, Rochester Institute of Technology, One Lomb Memorial Drive, Rochester, NY 14623. (716) 475-2592.

OPTICS PRODUCTS is a new technical reference guide and product catalog. The guide is designed to assist manufacturers and users of infrared lasers and imaging systems with the proper design and selection of optics, optical coatings, and optical components. Included in the catalog are infrared optics and polarization tutorials, infrared material properties and constants information, and a material selection guide. Some of the products covered include lenses, mirrors, beamsplitters, phase retarders, windows, and optical coatings. II-VI INC., 375 Saxonburg Blvd., Saxonburg, PA 16056

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THE STAR 110 SUBMINIATURE was introduced by Kodak during the weekend of 6/6/93. Star signals retirement for the Ektra Lite line. Look for a "tele" Star, and blister packed pastel models sold point-of-purchase at your local TARGET stores. Hopefully this is the same lens which had a reputation for being "gee whiz" sharp.

FINGER LIGHT

Drop (2) AA batteries (which you get to buy) into the 1-5/16" x 2-3/8" x 3/4" black plastic case of this item. Strap said case to your wrist with the black velcro strap, run the flexible 9" cable along your hand and slip the little attachment on its nether end onto the finger of your choice. The attachment is a little lamp which, when switched on, will shine a surprisingly bright pool of light wherever you point your finger!!



FINGER LIGHT #21845 \$3.25 ea. Some very interesting items in the new A S & S catalog (free). American Science & Surplus, P.O. Box 48838, Niles, IL. 60714-0838. (708) 475-8440.

LETTERS

UPDATE: 110 FAST GLASS "The Vivitar Tele 603 has a f/1.7 24-36mm lens."

J. Whalen,
Jacksonville, NC

Dear Al,

I'm looking for any company or individual that will make a new bellows for an old pocket camera.

M. Elmer
Fairbanks, AK.

Dear M. Elmer,

Try: Flexible Products Corp., 14504 60th St. N., Clearwater, FL. 34620. Call toll-free 1-800-551-3766.

Also contact Universal Bellows Co. 25 Hanse Ave., Freeport, NY 11520. Universal has a brochure with prices, and will tell you how to measure for the new bellows. (516) 378-1264.

Al D.

DOES ANYONE HAVE THE ADDRESS OF A PUBLICATION CALLED "CAMERA SHOPPER"? Al D.