

THE SUBMINIATURE TIMES

The Subminiature Times is published monthly by Doylejet, P.O. Box 60311, Houston, TX. 77205 (713) 443-3409
Supporting 110, 16mm, 9.5mm, 8mm, 4mm, 1mm, Microdot, & Electronic Still Photography.



Cassette Hunter Stays on Track



The photo above was taken (quickly) with a Pentax-A110 and 18mm/2.8 lens to illustrate the quality of Fujicolor Super HR 100 developed in HC-110, dil. F. 13 mins @ 75° F.

The film was part of a mixed gross of surplus 110 color film purchased recently at the Photographic Collectors of Houston Camera Show. The price...ten rolls for a dollar! A gross with shipping is \$17.40.



On the bandwagon: Chadt subminiature camera can be worn on a wristband.

Smallest?

The promotional literature for the CHADT proclaims it to be the smallest subminiature camera in the world. It certainly is the smallest camera in production, and an obvious collectible.

Negative size: 8 x 11mm (Minox cassette).
Lens: 14.3mm/f4, fixed focus, 3-element.
Apertures: f4 through f11.
Shutter: 1/200th sec.
Exposures: 15 or 36.

Suppliers: Camera \$189, all accessories, all film emulsions & processing available. Microtec, P.O. Box 9424, San Diego, CA. 92169 (619) 272-8820.

Camera \$189, Accessories, wrist band, gold chain strap, leather pouch. Arrivo Marketing, P.O. Box 2193, La Jolla, CA. 92038.

The emulsions available are:
Fujicolor 110-12 Super HR 100
Kodacolor 110-12 Gold 200
Kodacolor 110-24 VR-G 200
Polaroid 110-12 One Film 200
Good Neighbor Pharmacy 110-24 Color Print 200.

You can get an assortment as we did, or request a gross favoring one emulsion. It's all surplus with dates ranging from 1989 to 1991. We tested a roll of each and couldn't be more satisfied. Especially at this price! Contact: Brent Esse, H & M Gold & Silver Recovery, 3275 W. Alabama, Houston, TX 77098. (713) 528-6295. See also CASSETTES pg. 6.

Tankephobia*

* An overwhelming fear that the Minox Developing Tank will eat your film.

The Minox developing tank has been around long enough to be proven its design and construction. This fact can be small consolation as you brace yourself to process your first roll of 9.5mm negatives.

The shape of the tank is unusual if you were expecting a scaled-down Nikor tank with a metal or plastic reel inside. And nothing in the multilingual instructions allays the fear that you'll make a mess of your first attempt to develop a roll of film.

Working alone ensures privacy. But it doesn't help when you'd like to have someone smart



looking over your shoulder just once.

Everyone who uses the Minox tank has the same thing to say about it.. "follow the instructions and you can't go wrong." Our philosophy is, read the instructions several times. When you feel comfortable that you've thoroughly absorbed the information, shoot some 'fun' pictures. Then buy the tank and enjoy yourself.

The \$60 Minox Processing Tank is currently available from Microtec, Item Code #251010.

This last piece of advice; plunging the thermometer up and down does a first class job of agitation. Don't overdo it.



Thermometer
Thermometer
Thermomètre
Thermometer

Entwicklungsdose
Developing Tank
Cuve de développement
Ontwikkeltankje



Spiraleinsatz
Drum
Tambour
Binnenspiraal

No darkroom necessary

The Minox developing tank is a daylight tank: the film is loaded into the tank in daylight, developed, washed and fixed in the tank and then unloaded again. Please note, however, that Minox film cartridges should not be exposed to direct sunlight or any other very bright light sources.

In the Minox developing tank you can develop all Minox 8x11mm black-and-white films with 36 and 15 exposures. The stop ring (with the number 15 on the edge) is only inserted in the tank for developing 15 exposure films; the ring is not used for 36 exposure films.

The correct developer

Minox films should only be developed with an ultra fine grain developer. The developer in the Minox special ultra fine grain developer pack is intended specially for the requirements of Minox photography with ultra miniature films. A pack contains 5 ampoules of concentrated liquid developer; the contents of each ampoule diluted with an equal quantity of water will give 53 cc of developer ready for developing a Minox black-and-white film in the Minox developing tank. For development of Agfaortho 25 document copy film you should use a special document film developer.

The liquid capacity of the tank is too small for development with 2-bath developers (e.g. Emofin by Tetenal); you can, however, use the drum with the sealing ring as film spectacle for darkroom development in large beakers or similar containers.

Cleaning

After film development, the tank should be dismantled completely (the drum should also be unscrewed from the sealing ring). Wash all parts thoroughly in clean tap water. Do not reassemble until they are completely dry.



Verschlussring
Sealing ring
Bague de fermeture
Deksel



Einsatzring für 15er Filme
Stop ring for
15 exposure films
Bague intercalaire
pour films de 15
Opvolring voor
15 opn. films



Becher
Tank
Cuve
Tank

"COLLECTION" REVISITED

Several readers inquired about the names of the gorgeous cameras in the March (#39) 'Swimsuit Issue'.

I've looked at the picture dozens of times. Usually I stop at those two in the second row (third and fourth from the right), and promise myself I'll try again when I have more time.

I'm also thinking of asking Frank for a mural (I found a nice spot for it on the bedroom ceiling.)

Until May 15, you can obtain an 8 x 10" color print from : Frank Cameron, 721 Dallas Ave., Selma, AL. 36701.



1

Pull the end of the exposed Minox film out of the side of the cartridge with the small flat opening (Fig. 1). Turn drum clockwise to its fullest extent, pull off the developing tank with the sealing ring and reverse (as shown in Fig. 2).



2

Place cartridge on the sealing ring (Minox symbol on the cartridge facing upwards, film strip towards the drum). Move leaf spring onto the face of the wide edge. Turn drum so that the film leader with the "keyhole" can engage on the exposed screw. Move leaf spring back so that it presses the free end of the film onto the drum.



3

15 exposure film; insert stop ring in tank. For 35 exposure films omit stop ring. Invert tank and press its edge firmly into the sealing ring; the developing tank must now be securely sealed and lightproof. Place tank on the bench (Fig. 3); screw drum into the tank by turning anti-clockwise until resistance is felt. Do not turn any further.



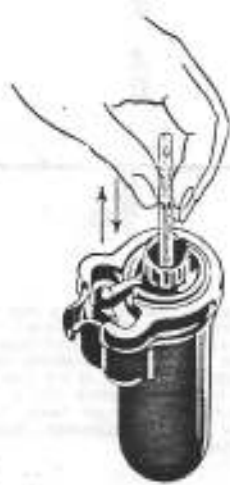
4

After loading a 15 exposure film, the drum will still partially project from the tank. When loaded with a 35 exposure film the drum is screwed fully in (Fig. 4). After loading the film do not rotate the drum any further. During development, it is the developer and not the film that is agitated (see Fig. 5).



5

Slowly pour liquid developer in through the center hole until the liquid emerges above the pouring channel (capacity 63 cc). Tap tank lightly to disperse any air bubbles on the film.



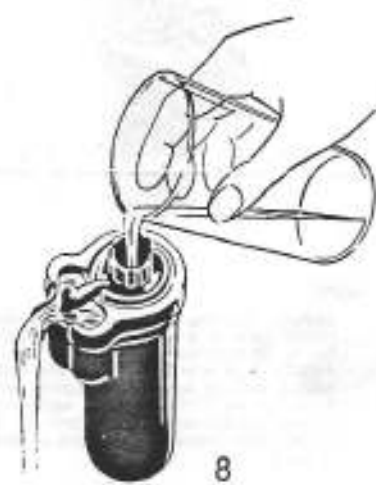
6

Insert thermometer in the filler hole; during development move the thermometer slowly up and down; this pumping action will keep the liquid developer in motion and will ensure uniform film development. Observe temperature and developing time in accordance with the instructions supplied with the developer.



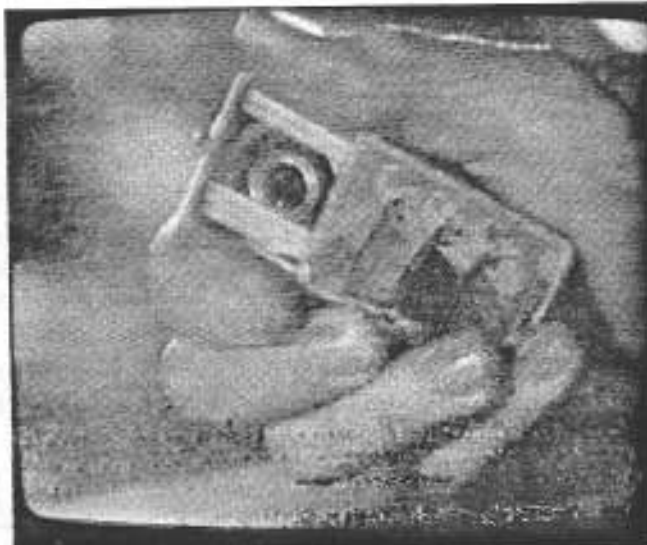
7

When the developing time has elapsed pour out the developer. Then wash immediately (see next paragraph), because the film emulsion is still saturated with active liquid developer in spite of pouring out.



8

Pour clean water into the tank. Pour out, refill. Change water at least two or three times to rinse all traces of developer out of the film emulsion. The water should be approximately the same temperature as the developer (approx. 20°C/68°F). Pour in fixer and allow to act for at least 7-10 minutes. Pour out.



THE GREAT SPY CAMERA FAN CLUB.

Real subminiature nuts never watch old spy movies for the plot. We sit unblinking until the inevitable 'spy camera' comes out. Then it takes a few days to calm down.

Here's a chance to prove that nothing gets past your beady little eyes. It's

the Russian 'matchbox' that caused the commotion in "Dr. Strangelove." Can you identify the camera?

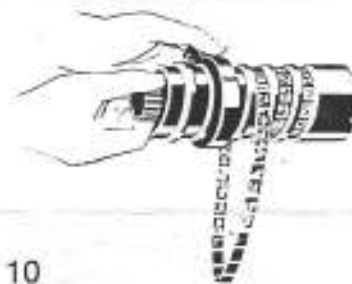
If anyone says Linhof, we all come to your house and change the labels on your film.

Dr. Strangelove or: How I Learned to Stop Worrying and Love the Bomb (1964) Comedy. President Muffley (Peter Sellers) and his advisers (George C. Scott, Keenan Wynn) man the Pentagon war room as bombers head toward Moscow. (B/W) ★★★★★ [PG]



9

Second washing: run water into the filling hole in a narrow jet, continue for 15-20 minutes. Finally, it is advisable to fill the tank with a wetting agent. This agent permits the water to drain off uniformly during subsequent drying and to a large extent prevents drying marks and streaks.



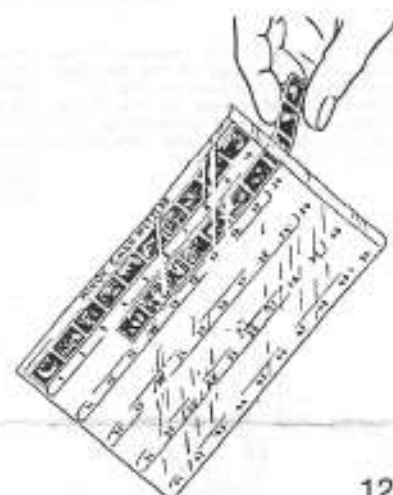
10

Pull sealing ring with drum off the developing tank. Hold sealing ring in position and unscrew the drum clockwise (Fig. 10). The still wet film will uncoil from the drum in a loop. Disengage film leader from the screw, remove cartridge.



11

Hang the film up with a clip or drawing pin so that the film strip - weighted at the bottom by the cartridge - hangs down freely. Only remove when the unexposed section of the film between the bottom negative frame and the cartridge no longer feels "squashy" when pressed between thumb and forefinger.



12

If possible, insert the film immediately in a Minox film wallet. Cut off cartridge with the film leader in front of the first negative frame, insert the first 10 frames in the first compartment, cut off, load second compartment, etc. until the complete film has been inserted in the wallet. Only remove film strips from the wallet for enlargement. For viewing and selecting the negatives with the film viewing magnifier the film strips should remain in the wallet.

MINOX

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Deutschland / Germany / Allemagne / Duitsland

Änderungen vorbehalten

Printed in Germany



\$12 Ea.

KODAK CAMERAS

Choose Ektralite 110 pocket camera with built-in flash; or focus-free Pazzazz 110 camera. Both use 110 film.



110 Camera Case #BL50 **4.99** 110EF

Vivitar Pocket 110 Camera

With built-in electronic flash. Reg. \$14.99

9.99

THIS LITTLE 110 CAMERA

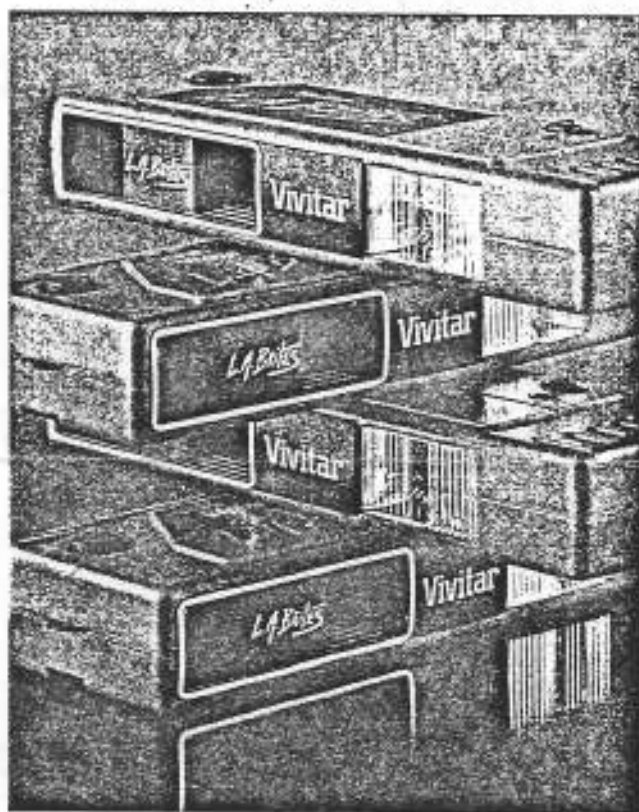
Keystone comes back to the low end market with a new offering. The XR-308 (top right) is a basic bar type subminiature, with fixed focus, flash, and free processing for the first roll. The XR-308 and Vivitar's 110EF are now available at Eckerd's.

Discriminating beach goers may want to head for a Wal-Mart to pick up the Kodak Ektralite 110. It has that 4-element lens, a marginally slimmer case, and the price is reduced. The Pazzazz appears to be the same camera in a brilliant blue.

Also at Wal-Mart, the Vivitar L.A. Brites in four different fluorescent colors, at a price that will probably last till summer.

FREE CLASSIFIED

I AM LOOKING for a Minox copy stand for the LX. Pref. black but not metric. Also black noise-reduced Tessina. Joseph M. Rider, 211 Elrod Dr., Goose Creek, S.C. 29445.



9.96

Special Purchase
Each

Vivitar® L.A. Brites

These 110 cameras are available in four different fun, fluorescent colors. No. 061740/1/2/3.



"Forest Flower"

Al Doyle '92

Camera: Pentax A-110. Film: Good Neighbor Pharmacy HR 200. Developer: HC-110 dil. F. 9 mins. @ 75°F. Printed on Panalure II RC.

CASSETTES Gami-16 \$15 ea. Yashica-Y16 \$10 ea. DIN Standard (waiting list). Back issues "The Subminiature Times" #1 to #5, and #33 to current \$2 ea. "The 1992 Guide to Popular Subminiature Cameras" \$10. Please include 10% S & H Domestic, 20% International. Al Doyle, P.O. Box 60311, Houston, TX. 77205.

THE SUBMINIATURE TIMES QUICKFINDER 4/92

Action Tracker (4 sequential exposures on a 35mm frame.)	25	BK	Minox 1st B	179	WB	LX Black	649	W
Bolsey 8 (movie & still)	350	LR	1st B	169	WB	Narciss w/cassettes	795	BK
Bolsey 8	149	BK	1st B	130	WB	Narciss w/cassettes	395	BK
Canon 110ED	169	F	2nd B	250	CA	Orinox Bino/Cam	149	WB
Edixa 16	229	BK	2nd B	189	WB	Pentax 110 3/lenses	289	BK
Epochs 16 w/case	225	W	2nd B	179	WB	+ 3/lenses	279	BE
Expo Watch Camera	389	F	2nd B	169	WB	+ 3/lenses	249	BK
Mec 16 SB	239	F	2nd B	169	F	+ 3/lenses	229	BK
Micro-16 w/flash	189	F	C Black	595	HA	+ 3/lenses	120	M
Minox 16	60	CA	C	425	C	Robot (Luftwaffe)	395	HA
16 W1	69	WB	C	295	G	Robot II	225	LR
16 W2	75	WB	C	249	BK	Rollei 16	269	F
16 W2	69	WB	C	229	WB	Rollei 16S	250	CA
16 EE II	69	WB	C	219	WB	Rollei 110E	339	F
16 MG	67	F	C	209	F	Rubina-16 II w/case	149	BE
16 P	59	F	C	199	WB	Steinbeck ABC Watch	1195	HA
16 P	59	WB	EC	189	WB	Steky I	89	WB
16 P	49	WB	EC	199	WB	Steky III	100	WB
16 P	29	BK	EC	179	WB	Stylophot	219	F
16 P	25	W	IIIS	189	WB	Tynar	119	F
110Z	225	BE	IIIS	179	WB	Whittaker Micro-16	29	WB
110Z	79	WB	IIIS	169	WB	Yashica Atonon	100	CA
110Z MK II	269	WB	LX Gold	1430	G		79	F
110Z MK II	229	WB	LX Black	679	W		50	M

BE Bergen County Camera, 270 Westwood Ave., Westwood, NJ 07675 (201) 664-4113
 BK Brooklyn Camera Exch., 549 E. 26th St. Brooklyn, NY 11210 (718) 462-2892
 BH B & H Photo, 119 W. 17th St. NYC, NY 10011 (212) 807-7474
 C Central Camera Co. 230 S. Wabash Ave., Chicago, IL. 60604-2396
 CA Cambridge Camera, 7th Ave & 13th St., NYC, NY 10011 (212) 675-8600
 F Foto Cell, 49 W. 23rd St., NYC, NY 10010 1-800-368-6235
 G Ghitelman Cameras, 166 Fifth Ave., NYC, NY 10010 (212) 924-3020
 H Hayden Photographics, 85 Queen St. East, Toronto, Ont. Canada M5c 1S1 (416) 862-8585
 LR Lens & Repro Equipment Corp. 33 W. 17th St. NYC, NY 10011 (212) 675-1900
 M Midwest Photo Exchange, 3313 N. High St., Columbus, OH. 43202 (614) 261-1264
 W Wall St. Camera, 82 Wall St., NYC, NY 10005 (212) 344-0011
 WD Woodmere Camera, 337 Merrick Rd., Lynbrook, NY 11563 (516) 599-6013