

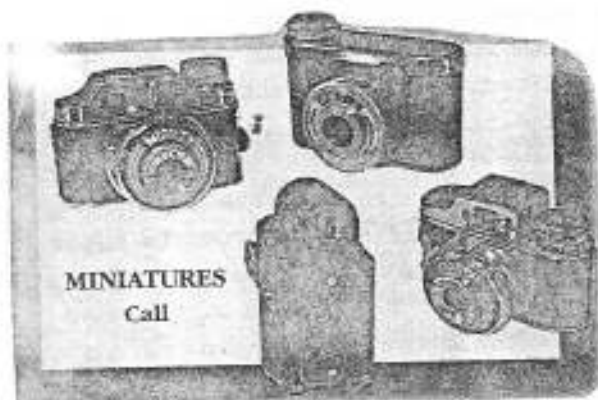
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THE SUBMINIATURE TIMES

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



UPDATES:

LOTS OF INTERESTING MINIS in the ADORAMA catalog. Shown are Mighty, Petie, Sanwa Mycro, and Coronet. Call frequently for latest listings and prices (212) 741-0052.

MAMIYA-16 CASSETTES are available again for a limited time. These have flange tops rather than screw-ons which give some folk fits. We have enough for everyone on the waiting list, and some extra. 2 / \$12. International please add 20% Airmail.

ONLY THREE WEEKS OLD The shirt pocketable Sony HCP-C10 at right is already setting standards for "world class" document copying image quality!

COMPOSITE VIDEO OUTPUT is the strong suit in Hamamatsu C5985. BUDGET PRICING AT ENTRY LEVEL cut smartly into Kodak Cameo sales during the holidays. Like that "your choice"?

VIDEO REISSUE Det. Ed Pankau of Intertext displaying subminiature video cameras and recording devices on the Sally Jessy Raphael Show 2 / 6 / 95. VHS copies (212) 582-1222.

POCKET COPIER

Copy documents on-the-go with the world's smallest copy machine: Sony's palm-size HCP-C10. The nickel-cadmium battery-powered device is able to store up to two columns of text that are eight inches long and reproduce them on plain paper. Each replaceable ribbon cartridge can print about 50 feet of text. \$160.

Cooled CCD Camera

Using Peltier cooling, the C5985 black-and-white CCD camera captures and quantifies images in low light levels.



The Peltier cooler lowers sensor temperature, reduces dark-current noise, and allows for extended on-chip integration for a true 8-bit dynamic range. The Model C5985's control unit provides RS-170 composite video output. Price: \$9,800. Hamamatsu Photonic Systems, Bridgewater, NJ. 808-232-1116.



9.99

Your Choice

110 or 35mm Camera

Vivitar 110 tele-pocket camera or Studio 35 focus free, 35mm camera.



9.99

Sale! Reg. \$12.99

Vivitar Pocket Camera

110 flash camera. Convenient small size.

BARGAIN OF THE YEAR (so far) For sale: Kodak Pocket Instamatic-10 \$1.00. Noble Enterprises (319) 377-3983.

PRESS RELEASE

Anniversary in Subminiature Format: 50 Years MINOX Made in Germany

Great Ideas about Small Cameras

Two grand old men: They were born at the turn of the century, their names can be found at the very end of every encyclopedia, and their inventions fit into any pocket - Walter Zapp's Minox since the early thirties, Konrad Zuse's computer only since the seventies, when powerful electronic brains were first miniaturized. While Zapp is still pondering on improvements in the field of miniature-photography at age ninety, his 85-year-old inventor colleague Zuse shuns PCs, spending his time as a painter.

The great idea of the small camera has actually been with Walter Zapp for a full 72 years. The Minox anniversary in 1995 relates to the death and rebirth of Germany fifty years ago - as do many of this year's commemorative events. Zapp was intent on starting anew after the horrors of war had ended, facing the challenge of independently manufacturing his invention. Production of a newly constructed Minox began in a small workshop in Wetzlar, Hesse, in September 1945 with the aid of his friend and business associate Richard Jürgens. In 1948 Minox GmbH moved to the premises of cigar manufacturer Rinn & Cloos in Heuchelheim near Giessen. It is here, that Minox cameras are still manufactured today - modified and technically enhanced over the years, but still the elaborately hand-crafted masterpiece in optoelectronics and precision engineering it always was. Fifty years Minox made in Germany: the highs and lows of a company's history - but most of all the history of a brilliant concept, which continues to fascinate pros and amateur photographers alike.

...to vanish in a clenched fist

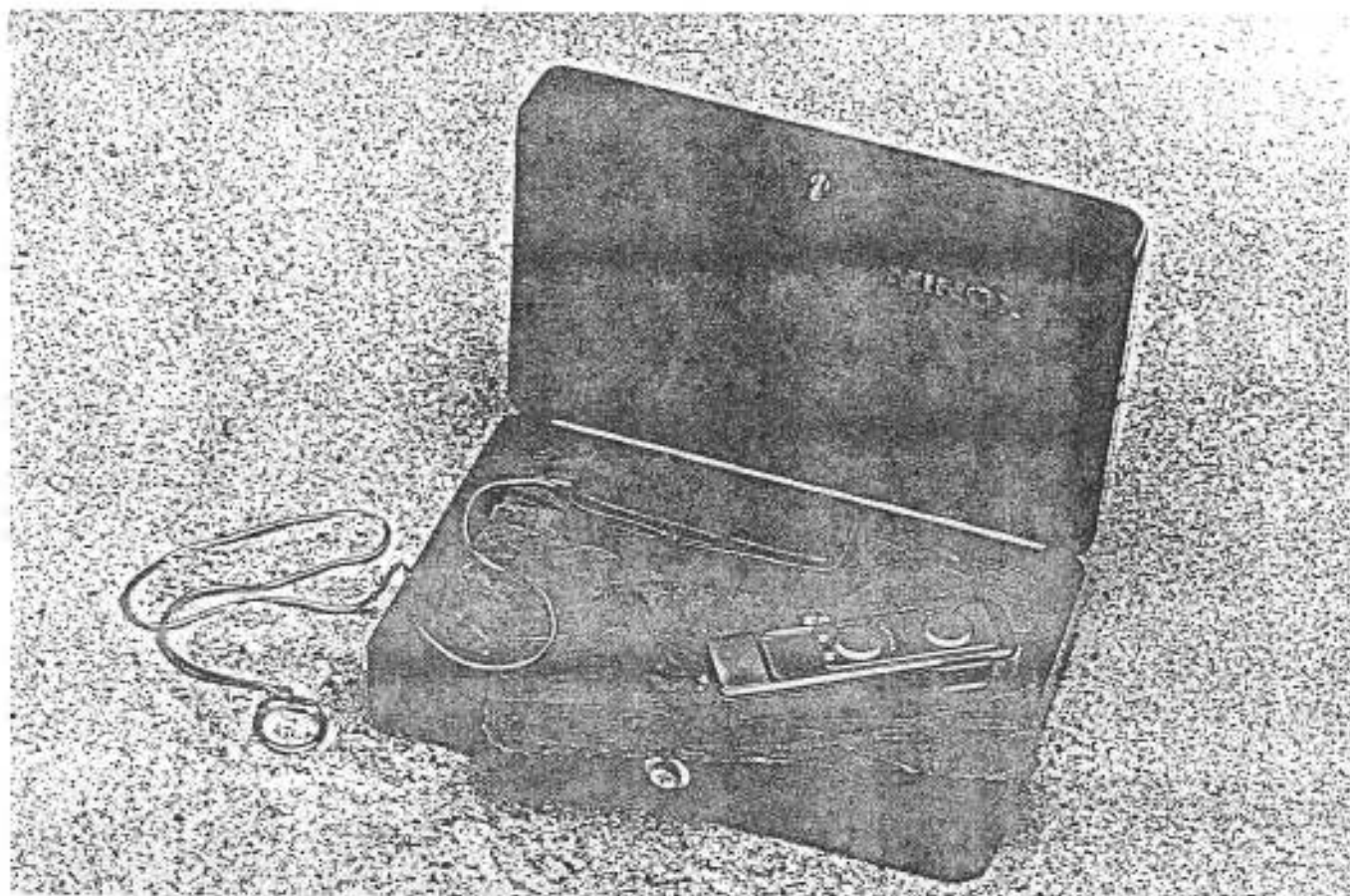
Walter Zapp was born September 4, 1905 in Riga, Latvia. His mother was of German-Baltic heritage, his father a Rhinelander raised in England. Heritage and fate determined this cosmopolitan's life. From 1922 to 1924 he apprenticed as a photographer in Reval (now Tallinn) under Walter Lemberg, the leading art photographer of the Baltic.

From his first year of study, Zapp was obsessed with the idea of constructing a miniaturized camera. He found conventional cameras too large and heavy and difficult to handle: "A camera one can carry along everyday without a hassle, should be so small as to vanish in a clenched fist." The idea stayed with him. Ten years later, with financial support from his friend Richard Jürgens, he developed plans for a very simple camera, a wooden model of which (dating from 1934) measured 13 x 28 x 75 millimeters (this original model is still his constant companion). Jürgens and Zapp had founded a business in 1932, the former providing funds and the latter his know-how and Zapp now concentrated solely on developing miniaturization techniques, working with the 6.5 x 9 mm picture format.

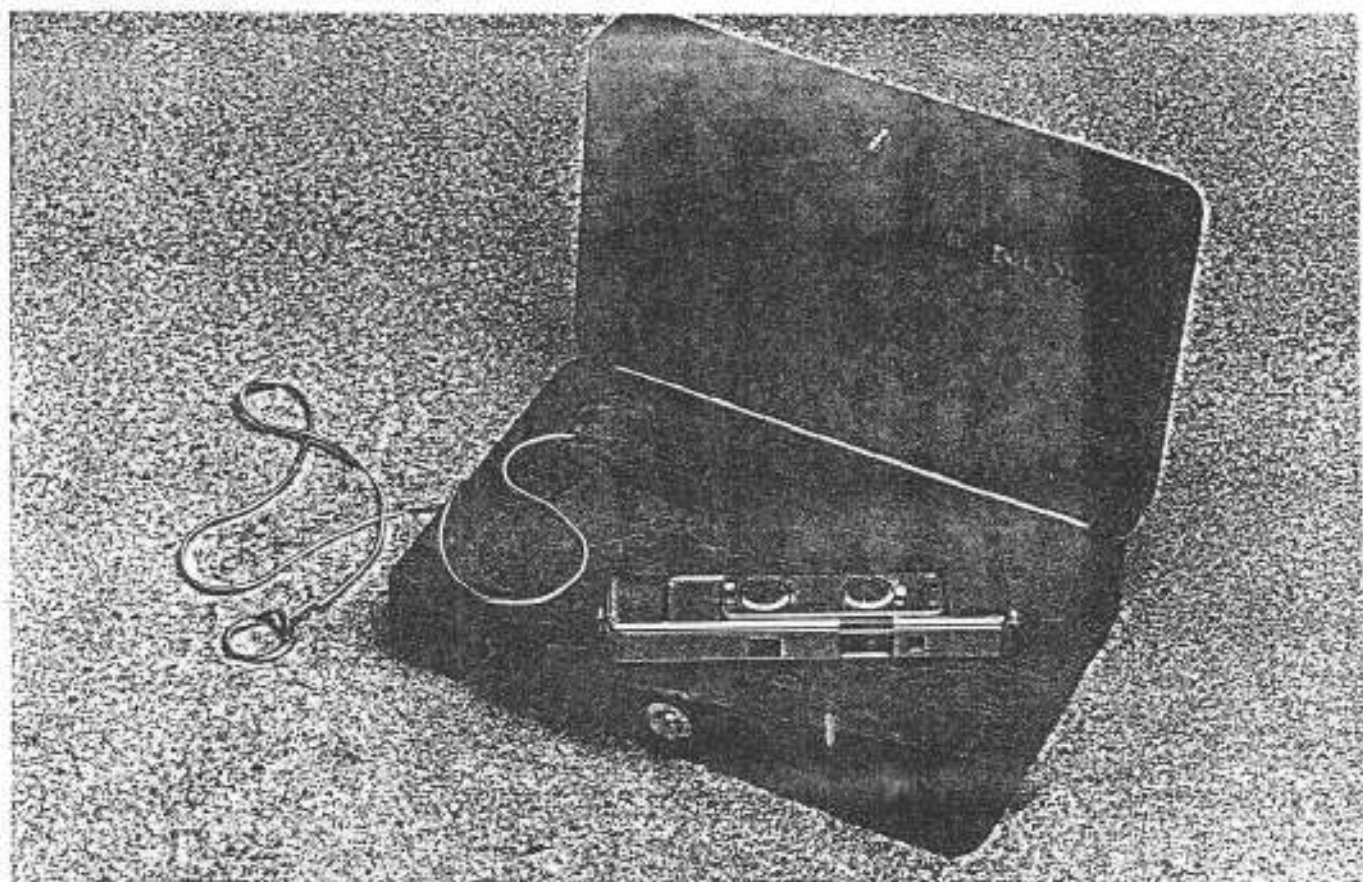
Zapp knew he could not achieve his goal by simply miniaturizing a standard camera. Such an apparatus would have been little more than a luxury toy. Scales, buttons and levers would have been too small to use without a looking-glass.

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Telex 482986 minox d



Signature Model AX



Signature Model LX



LETTERS

Al Doyle,

I've enclosed a shot of my brother-in-law "Skip" in Rochester, NY. taken with a faithful little Vivitar Opus 20.

I'm guessing that the current popular format of 24 x 36mm will be reduced to 21 x 27mm with a total film gauge of 24mm.

With the new film, support for the Kodak 110 system might be scaled back even further or withdrawn altogether.

Because the new film will be in drop-in cartridges, closer to Minox-style rather than 126-style I hope, it may not be as easy to adapt to submini format photography as has been the case with smaller gauge movie and microfiche films.

In a way, there may now be a fresh opportunity to develop a new 16mm-based submini system (other than Kodak's 110) if enough major participants can agree. The spectacle of Rollei, Minolta, and many others doing it their way just resulted in consumer confusion and fewer choices for the submini enthusiast; fewer practical choices for those users without specially equipped darkrooms, custom-built cutters, re-loading accessories, etc.

There's one avenue of possible submini development that hasn't yet been fully exploited, I believe. There are already some excellent submini-format cameras, such as Tessina (14 x 21mm) and Robot SC (16 x 16mm) that use 35mm film.

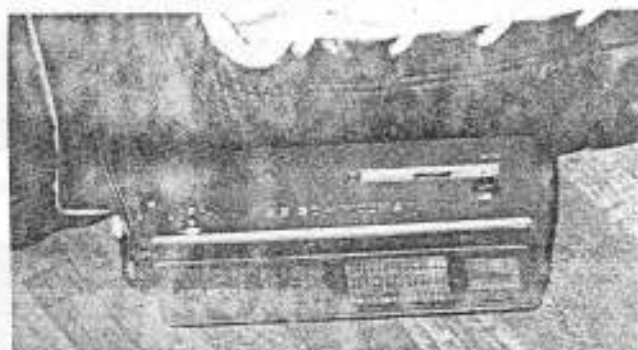
A 3P (three-perforation) system, for instance, would yield 14.3mm (by as much as 24mm in the cross-wise dimension) between images. A format of 14 x 21mm (same as Tessina) could be accommodated, as well as others at the whim of the camera manufacturer.

The 14 x 21mm format yields 96 images on a "36" exposure mag. Two 11 x 14mm exposures per 3P film advance would double that to 192 exposures!

For the sake of camera miniaturization, a light-proof, reusable 35mm magazine of Tessina size (and compatible with it) might be made available to take shorter lengths of film - and even be loaded, ready to use, with a popular speed color print film for lazy people like me.

At any rate, it looks as though the next few years will be fascinating to watch for photographers of all stripes.

Bob Dome,
Aberdeen, WA



To Collectors. Yes, the cassettes from the Yashica-16 EE will fit your Kiev 303. plenty of emulsions are available.

Re "Close But No Cigars" ST # 80

Hey Al,

Take your baseball bat over to Kodak before they get that Advanced Photo System on the market. See enclosed material.

John Wallace,
APO, San Francisco

Dear John,

Your assessment of APS may be prophetic.

Most people want instant results, not a squint at a contact sheet on their second trip to the photo store. A 3-trip system with reduced image quality (because of the smaller format from the same film) could boost sales of Polaroids, 110, and maybe even (gasp) new subminiatures.

Anyway, I'm hoping.

AID.



Picture This In a Camera

Manufacturers are betting that new cameras and new developing processes will revolutionize photography — and encourage consumers to order more reprints.

NEW FEATURES

1. An index of each roll (shown above)

Miniature versions of all the shots on a roll of film printed on one sheet for easy reference, akin to the contact sheets now used by professionals.

2. Three image sizes

Pictures are shot at full frame, but can automatically be printed in the shooter's choice of three shapes.



Standard
SIZE 4" x 6"



Full-frame
SIZE 4" x 7"

Panorama SIZE 4" x 10"



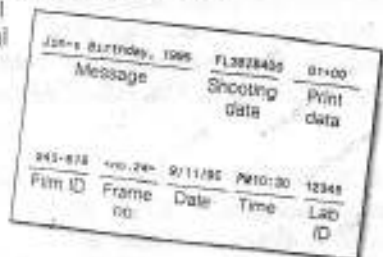
3. Film cassettes

A leaderless film cassette that can be dropped into the camera with no risk of faulty threading.

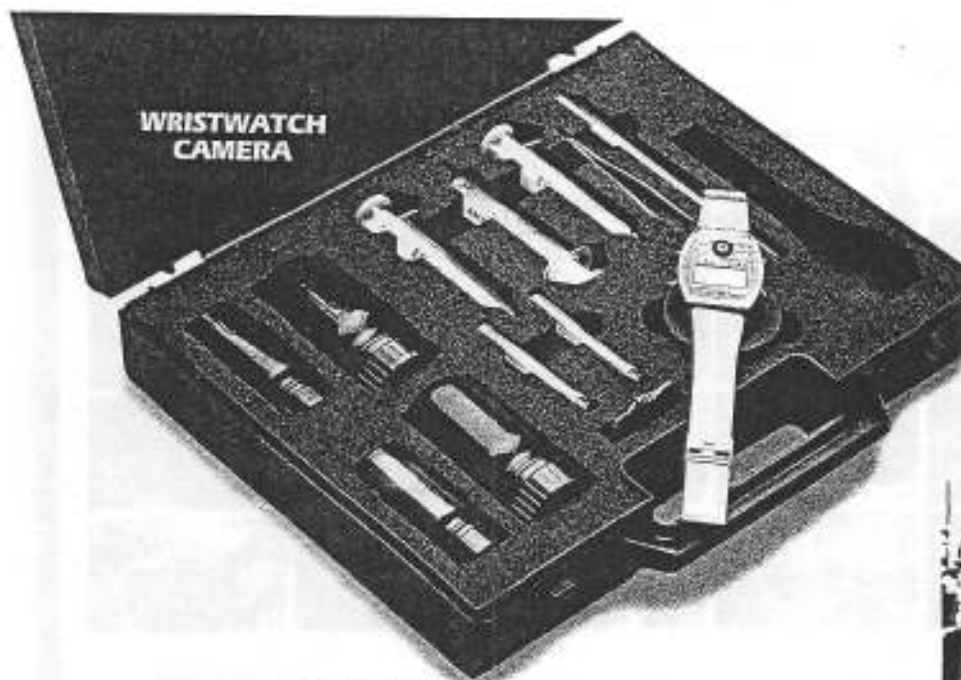
4. Photo labeling

The backs of printed pictures will show technical information like the date and time taken.

Some cameras will also allow personal messages to be added by speaking them into the camera.



Source: Fuji Photo Film America



HELPLINE

SOME OF OUR READERS have gotten caught up in the watch/camera craze without giving thought to the film speed needed to shoot at $f/2.8 @ 1/30$ th sec. Going to the beach with T-Max 400 is a sure recipe for muddy prints. ISO 1 is correct, use a neutral density filter. Please see issue # 63 for sample photo. We have more samples if there is interest.

ODDBALL COLLECTIBLE The Photo Belt buckle. Your photo, their buckle. Info: Suncatcher Co. 1324 Shepherd St., Sturgis, SD 57785-1820.

DISCREET FILM PROCESSING Color, B&W. SASE to: Public Eye, 7865 Carriage Lane, Wichita Falls, TX 76306.

LETTERS

Greetings from the Grove---

I came across that resolution test document you had sent, and am finally going to have fun making the test, and it will be interesting to see what the results are.

So - I will set my Rollei-16 up 4ft. from the chart. But I also need to know how to interpret the chart so that I will know just how many lines per mm it will resolve.

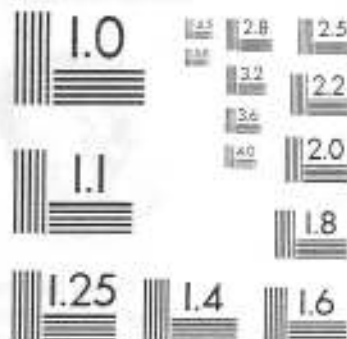
Paul Price, Downers Grove, IL

Hi Paul,

Photograph the chart under the brightest light with your best film, then look for the smallest set of lines. At 4 ft. I get Set 1.8 with a Minolta-16 QT using Fuji HS-U. (Rodinal 1:133, 15 mins. @ 74F.)

Al Doyle

RESOLUTION TEST DOCUMENT

VISITING DIGNITARY
TURNS THE TABLES

On a recent visit to San Francisco, President Tsiranana of Madagascar (formerly Madagascari) — an avid photographer — dropped in at Brooks Camera Store. Accompanied by his aide, and host Cyril Magnin, he was Minoxed by Harry Stokes of Brooks.

Unaware of the candid photography at first, President Tsiranana then reacted by photographing the photographer . . . with his own Minox, of course!



1. The president's aide points out that they are being Minoxed.



2. Both distinguished visitors react by reaching for . . .



3. . . their own Minox cameras, which they proceed to use!

QUICKFINDER 1/96
Cyclops bino/cam.....\$799 W
Gami-16 w 4x tel.....1399 B
Minute-16 w/film, box....99 B
Minolta 16-QT.....\$69 WS
Minox B.....\$149 W

Minox C.....\$259 W
" EC.....229 B

B Brooklyn Cam (516) 678-5333
W Woodmere (516) 599-6013
WS Wall St.....(212) 344-0011

3.6

4.0

4.5

5.0

3.2

2.8

2.5

2.2

1.4

1.6

2.0