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U. S. ARMY INTELLIGENCE CENTER
Fort Holabird, Baltimore 19, Maryland

ACSIH-BD 250/6

22 November 1958

SUBJECT: U. S. Army Intelligence Board Digest (U)

TO: See Distribution

641855

1. The U. S. Army Intelligence Board Digest Number 7 is attached.
2. Data included has been obtained from analysis of manufacturers' literature, demonstration of some items, and limited experimentation with others; formal test and evaluation of this equipment has not been conducted by the USAINTB, this headquarters.
3. The Supply Agency (SupAgency), this headquarters, will supply upon request, the items of nonstandard supplies and equipment listed. Items requested by field intelligence units require the written approval of the ACofS, G2, of the major command to which the unit is assigned or attached, in addition to the necessary funds. Intelligence funds will be transported to the Commanding General, this headquarters, ATTN: SupAgency, by means of a properly executed Obligation Authority (DA Form 14-114) in duplicate.
4. Delivery dates included indicate the suppliers' ability to ship items after receipt of an order; the time necessary for processing orders is not included.
5. Requests for additional information concerning items mentioned, or suggestions concerning equipment considered desirable for inclusion in subsequent issues of this series of digests are encouraged. Correspondence should be forwarded to the Commanding General, this headquarters, ATTN: USAINTB.

FOR THE COMMANDER:

Charles S. Brown

CHARLES S. BROWN
2nd Lt, AGC
Assistant Adjutant General

1 Incl
Digest Nr 7

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HEADQUARTERS
U. S. ARMY INTELLIGENCE CENTER
Fort Holabird, Baltimore 19, Maryland

USAINTB
DIGEST
NUMBER 7

22 November 1958

EQUIPMENT FOR INTELLIGENCE APPLICATION (U)

SECTION I - PURPOSE (U)

1. The items described in this digest are presented in accordance with paragraph 2a, AR 15-15, solely for their possible application to the intelligence field. Mention of a commercial product does not constitute an endorsement of the product by this headquarters.

SECTION II - PHYSICAL SECURITY ITEMS (U)

2. (C) Safemaster Number 60 Pinchproof Deadlock Bonnet

a. (U) Description: This item and all accessory parts are made of cast aluminum, finished in hammertone gray. The bonnet measures $1\frac{1}{2}$ X 3 X 5 inches and houses a Sargent and Greenleaf Model T combination lock with Underwriters Group 1 label; a serial number is stamped on the bonnet. Accessory items include an anchor base and strike plate for installing on a door and doorjamb respectively, and a back plate to protect the lock when the bonnet and lock are stored. When the bonnet is installed on a door, the extended lock bolt prevents the door from opening; a part of the bonnet extends around the strike plate to prevent pinching or spread-jacking techniques.

b. Intelligence Application: This item may be used to secure areas such as CF supplies storage, file rooms, radio rooms etc, in field units in lieu of a common hasp and combination padlock.

c. Appraisal: This device provides an increased time delay of only 1 or 2 minutes against surreptitious entry as compared to the normal combination padlock. The combination to the lock can be obtained by drilling the bonnet and lock: by forcibly removing the bonnet and lock and replacing with substitute items: and by forcing the back plate when the lock is stored, and replacing with a substitute back plate or substitute lock.

d. (U) Procurement: This device is manufactured by the Safemasters Company, 1210 23rd Street, NW, Washington 7, D.C., with prices as follows:

<u>Item</u>	<u>Lots of 1-9</u>	<u>10-49</u>	<u>50 or more</u>
Group 1 lock w/t 6730-MP	\$43.50	\$42.19	\$41.32
Group 2 lock key change	\$32.00	\$31.04	\$30.40

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<u>Item</u>	<u>Lots of 1-9</u>	<u>10-49</u>	<u>50 or more</u>
Group 2 lock hand change	\$30.60	\$29.68	\$29.07
Anchor Base	\$8.50	\$8.24	\$8.07
Storage Plate	\$8.50	\$8.24	\$8.07
Strike Plate	\$1.80	\$1.75	\$1.71

3. (C) Interectics Bonding Agents, Interact "S" and Interact "E"

a. (U) Description: Interact "S" in metallic rod form, and Interact "E", in powder form, are bonding agents for use in joining non-ferrous metals. Materials to be fused must be preheated to approximately 800 degrees fahrenheit; heat should not be directed against either of these materials themselves. After heating items to be fused, the bonding agents are placed on the surface to be joined, and melt from the heat of the materials to form a sturdy bond.

b. Intelligence Application: Type "S" and "E" may be used for fabricating special tools and jigs for use in surreptitious entry, and repairing radio equipment.

c. (U) Appraisal: The resulting bond is at least as strong as a weld, and appears to be as strong as the original piece of metal. Both of these items are hygroscopic and must be sealed when stored. Ventilation is required when using these chemicals as the reaction from the heat creates heavy, white fumes which are toxic.

d. (U) Procurement: These items are manufactured by Interectics, Inc, Northfield and Forbes Roads, Bedford, Ohio and are also available from the D & H Distributing Company, Inc, Baltimore, Maryland. Price of type "S" is \$7.29 per pound; type "E" is \$6.69 per pound.

SECTION III - Electronic Items (U)

4. (C) Motorola "Handy-Talkie" Pocket Receiver

a. (U) Description: This item is a fully transistorized, FM, pocket size communication receiver compatible with any FM two-way radio system, for individualized voice communication. It measures 5 3/4 X 2 1/8 X 1 1/8 inches and weighs 10 1/2 ounces, complete with batteries which fit in a separate compartment within the case. The receiver contains 17 transistors and 5 diode circuits to provide "big set" sensitivity with low power drain. The unit is crystal controlled, single frequency operation with a sensitivity of .5 microvolt in the 25-54 megacycle band, and 1.0 microvolt in the 144-74 megacycle band. Battery life of mercury cells is

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approximately 200 hours; with rechargeable nickel cadmium battery approximately 20 hours per recharge. Audio output is thru either earphones or a small loudspeaker.

b. Intelligence Application: This item, when used with a voice-modulated, FM transmitter, similar to the Fargo 601 Intelligence Transmitter (see paragraph 5, Digest Number 5, 22 May 1958), will provide a communications system to aid in conducting surveillances, coordinating stake-outs, etc.

c. (U) Appraisal: This item is rugged and reliable. The sensitivity, selectivity, frequency stability, and channel spacing are comparable to larger, mobile type equipment. A squelch control eliminates the usual background noise when no signal is being received. It can be carried on the person in a discreet manner.

d. (U) Procurement: This item is manufactured by Motorola Communications and Electronics, Inc, 4501 West Augusta Blvd, Chicago 51, Ill and sells for approximately \$340.00.

5. (C) Minitape Miniature Recorder, Model 8

a. (U) Description: This item is a completely transistorized portable tape recorder with self contained batteries, which measure 9 X 12 X 5 inches and weighs 13 pounds, complete with battery supply. A 12.5 volt nickel cadmium battery supplies power for both its transistor amplifier and motor drive mechanism. The unit is available in 3 speeds, 1 7/8, 3 3/4, and 7 1/2 inches per second. No volume indicator is required as the transistor amplifier provides automatic control over a 40 db range. A playback head is included which allows headphone monitoring. Accessory items are available for remote control operation and for battery recharging from various line input voltages.

b. Intelligence Application: This item can be carried in a brief case to provide covert operation and will work well from an automobile powered from the 12 volt vehicle system with accessory cable. The low impedance microphone input is ideal for long microphone lead runs.

c. (U) Appraisal: This item is of professional caliber, easy to operate and rugged. The playback head allows constant tape monitoring; the automatic record level compensates for various input voltages which may be encountered.

d. (U) Procurement: The minitape is manufactured by Stancil-Hoffman Corporation, 921 North Highland Avenue, Hollywood 38, California; price, \$494.00.

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SECTION IV - Photographic Items (U)

6. (U) Kodak Plus-X Film, Improved Type

a. Description: This film is a new version of 35-mm Plus-X, a general purpose black and white film widely used in intelligence photography. It may be identified by a wide, black arrow on the package which bears the legend, "See Instructions, Improved Type Plus-X". With the same ASA rating as the previous Plus-X, the "Improved Type" can also be exposed and developed in the same formulas. This film, which appears to fall between a medium speed and a thin emulsion film as regards image sharpness, develops much more rapidly than its predecessor. Processing in D-76 for 5 to 6½ minutes or for 7 to 8 minutes in D-76 diluted 1:1 is recommended.

b. Intelligence Application: This film will provide increased information obtainable from intelligence photography. Its excellent acutance and reasonably fine grain produces superior negative and print quality with sharper detail than obtained with the previous Plus-X film.

c. Appraisal: When properly exposed and processed, Improved Type Plus-X film provides extremely high quality results. An exposure index of at least two times the manufacturer's rating of ASA 80 for subjects of normal contrast, and still higher numbers for low contrast subjects will result in negatives of low graininess and excellent gradation and sharpness. Although listed on the manufacturer's data sheet, the use of Microdol as a developer is not recommended as it decreases image sharpness.

d. Procurement: This film is manufactured by Eastman Kodak Company, Rochester, New York, and is now available in most camera shops. The price for 36 exposure rolls is \$1.10; on GSA Federal Schedule, Number GSA - 005 - 17486 - Item 19 - 3, the price is \$.63. This GSA number is for Plus-X film and requests should indicate, "Improved Type".

7. (U) Polaroid 4 X 5 Film Holder and Sheet Film

a. Description: This item is a new Polaroid Land Film holder which slides into the spring back of standard press and view cameras to accept individual sheets of the new Polaroid film; previously, a large and heavy roll film holder which utilized standard Land roll film was the only accessory for the 4 X 5 format. The new Polaroid sheet films are packaged in individual light-tight paper sheathes which obviate the need for the conventional dark slide. These sheathes protect the film before use and during the standard 60-second processing. The film holder contains the usual pod-busting processing rollers. The individual film packet is pushed into the holder and the envelope withdrawn, leaving the film exposed in the picture taking position. During the exposure this

envelope hangs off to the side similar to uncut film-pack papers. After exposure the envelope is slid back into the holder, a lever which places tension on the processing rollers flipped over, the entire film packet pulled from the holder, and the 60-second cycle occurs inside the packet. When completed, the negative and print are pulled from the packet and separated in the same way as the standard Polaroid print. The new film holder also allows the removal of an exposed film packet without immediate processing. Two new films, Types 52 and 53, both with exposure indexes of 200 daylight and 160 tungsten are available in the packet form; Type 52 has a paper negative like the Polaroid roll films, while Type 53 has an acetate base. This acetate base negative can be preserved by additional darkroom processing if initial development is delayed until a darkroom is available.

b. Intelligence Application: This 4 X 5 film holder allows more rapid shooting than with the standard Polaroid camera or roll film adapter. The provision for removing an exposed film packet without processing allows the photographer to immediately reload, continue shooting and process the packets at any convenient time. The capability of preserving the acetate base negative permits the easy reproduction of additional prints as may be required.

c. Appraisal: Both Type 52 and 53 films have excellent quality characteristics with very good resolution and tonal quality, and use of the 4 X 5 holder and film packets is extremely simple. The film holder-film packet combination, with its capability of producing a full 4 X 5 print for immediate viewing adds a new and useful item to the Polaroid system of photography.

d. Procurement: The Polaroid Land Film Holder Nr 500 and its companion film packets are manufactured by Polaroid Corporation, 730 Main Street, Cambridge 39, Mass. They are expected to be on the market in late 1959 as a regular stock item. Prices are estimated as follows: Nr 500 Film Holder, \$50.00; Type 52 Film Packet, \$6.25 per dozen; Type 53 Film Packet \$7.25 per dozen.

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