

SECRET

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2

99/505  
File

TID/TSB-49/65  
8 June 1965

MEMORANDUM FOR THE RECORD

SUBJECT: Trip to [redacted] 27 May 1965

1. Messrs. [redacted] visited the [redacted] on 27 May 1965. The main purpose of the visit was to delineate the basic features needed both now and in the near future by TSB on the [redacted] Model 1032T Trichromatic Microdensitometer to be used as a production instrument on mission material.

2. [redacted] were waiting for us when we arrived. They showed us into their conference room and discussion ensued revolving around the features needed on the instrument to meet the requirements of TSB. [redacted] will supply a quote on the basic instrument as defined below and will also include the price of optional accessories that may be ordered with the instrument or at a later date.

3. The basic instrument is defined as the [redacted] Model 1032T Trichromatic Microdensitometer as set forth in the specifications published by the [redacted] and dated 15 March 1965 with the following description of features and/or changes. These features are considered essential to furnish TID/TSB with an efficient microdensitometric capability:

a. The measuring stage without the film transport in place shall have an approximate scanning area of 9 1/2" x 9 1/2" (with corners rounded if necessary) and will permit manual rotation of 360°.

b. A manual film transport will be supplied with the capability of handling 7 5/8" diameter (500') x 9 1/2" spools. It will use 1/2" x 9 1/2" film rollers and will include adapters for 8.0", 6.6", 5 1/2", 5.0", 70mm, and 35mm rolls of film. With the use of both X and Y scanning modes, the transport will be constructed to permit scanning perpendicular to an edge located in any orientation and at any location in the format of a 9 1/2" roll of film. The viewing area with the transport on the

25X1A

25X1A

25X1A

25X1A  
25X1A

25X1A

25X1A

25X1A

25X1A

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

Declass Review by NGA/DOD

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2

SECRET

**SECRET**

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2

TID/TSB-49/65

25X1A

**SUBJECT:** Trip to  27 May 1965

stage will be approximately 4.0" in X and 10.0" in Y. The X axis will be parallel to the major axis of the roll film, and the Y will be parallel to the minor axis of roll film.

e. The following apertures will be included as part of the basic instrument:

(1) A dual bi-lateral adjustable illuminating slit with narrow band-pass filter glass jaws, and a dual bi-lateral adjustable pick-up slit with opaque jaws which have the upper surfaces painted white to form a projection screen.

(2) A "micro-spot" projector assembly for insertion in the illuminating system and appropriate circular pick-up aperture. The spot size shall be the minimum that will maintain a 3.5 density at 20.5X magnification in the black and white mode.

(3) Two pairs of fixed slits shall be supplied. One pair will provide a 1 x 80 micron aperture with a magnification of 20.5X. The second pair will provide a 1 micron wide slit at 20.5X with a "fish-tail" plate to be used with the pick-up slit that will give a choice of slit lengths.

(4) Two pairs of fixed circular apertures will be supplied. One will yield a 10 micron diameter at 20.5X. The second will provide a 20 micron diameter at 20.5X magnification.

d. A rotary table will be provided for both illuminating and pick-up systems. This unit will permit rotation of slits from 110° on one side of a vertical position to 50° on the other side.

e. Provisions for the installation of an air puck system shall be provided on the basic instrument but the air puck will be listed as an optional attachment.

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2

**SECRET**

~~SECRET~~

TID/TSS-49/55

25X1A

SUBJECT: Trip to [redacted] 27 May 1965

f. Test and calibration devices shall include a precision Linear Scale, a set of Twelve Specular Density Filters which includes an optical density range of 0.1 to 4.0, and a machine scan resolution test target.

4. Optional features will be priced separately from the basic instrument. Any of the options may be ordered at the same time as the instrument, or at a later date.

a. A special microscope and recording camera that can be used in place of a standard viewing microscope.

b. A read-head that can be put in the magnetic tape system to allow for a direct read-out of digital data via the typewriter.

c. An air puck that may be used as a film hold down device when using the higher power objectives.

d. A parity check circuit may be included in the digital system.

e. Other optional accessories.

25X1A

5. The [redacted] will furnish the above mentioned quote as soon as possible. The original will be sent to [redacted]

25X1A

SIGNED

[redacted]

TID/TSS

25X1A

25X1A

CONCUR: SIGNED  
[redacted]  
Chief, Technical Services Branch

8 JUN 1965

Date

~~SECRET~~

**SECRET**

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2

TID/TSD-49/65

25X1A

**SUBJECT:** Trip to  27 May 1965

**Distribution:**

Orig - Ch/TSD

1 - TSD

1 - TSD

1 - Dep Ch/TID

1 - PMS ✓

1 - LB/SS

**SECRET**

Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020060-2