Approved For Release 2005/06/06 : CIA-RDP78B04770A002500040012-9
998435

CONFIDENTIAL

NPIC/P&DS/D/6-1609
3 October 1966

MEMORANDUM FOR: Assistant for Photographic Analysis, NPIC

AT ATTENTION: [redacted]

AT SUBJECT: [redacted] Stereoviewer Evaluation

1. Effective 15 September 1966, P&DS transferred one [redacted] STA Stereoviewer to PAG on a temporary loan basis for an operational evaluation.

2. This instrument which is an East German production model originally designed for cartographic work has some unique features and operating characteristics which we feel may have possible application in NPIC film exploitation. A listing of some of these characteristics (Attachment 1) is included for your information.

3. We request that PAG perform an operational evaluation of this equipment from both a technical and a human engineering viewpoint and forward a summary of their recommendations and comments to P&DS by 17 October 1966. An evaluation form (Attachment 2) is included to simplify this process.

4. At the completion of this evaluation it is requested that PAG transfer the stereoviewer to IAD for further evaluation.

[redacted] STA
Colonel, USAF
Assistant for Plans and Development, NPIC

Attachments:
1. Technical Data
2. List of Evaluation Questions

Distribution:
Orig & 1 - Addressee
3 - P&DS/DB (99843-5)

Declass Review by NGA.

AT NPIC/P&DS/DB: [redacted] (3 Oct. 1966)

GROUP 1
Excluded from automatic downgrading and declassification

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ATTACHMENT 1

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TECHNICAL DATA FOR [redacted] STEREOVIEWER STAT

Magnification: 2X to 6X and 5X to 15X

Resolution: 13 l/mm @ 2X, 40 l/mm @ 6X and 100 l/mm @ 13X

Magnification compensation between right and left picture:

with zoom - up to 1:3

with zoom and turret - up to 1:7.5

Field of Stereoscopic View: 200 mm/magnification

Diopter Adjustment: ±5

IPD Adjustment: 55 - 75 mm

Illuminated Surface: Incident light - adjustable to 110mm ($4\frac{1}{2}$")
diameter transmitted light - 600 X 300mm (24 x 12")

Optical Image Rotation: 360 degrees

Common displacement of objectives: (Free-hand motion) X axis max
240mm ($9\frac{1}{2}$")
Y axis max 300mm (12")

Parallel axis motion of objectives: X axis 90-310mm ($3\frac{1}{2}$ - 12")

Y axis ±65mm ($2\frac{1}{2}$")

Operating voltage: 220v 50cy (110v 60cy with transformer)

Power requirement: 250 watts

Dimensions:

Width without film holder:	1000mm ($39\frac{1}{2}$")
Width with film holder:	1260mm (50")
Depth with film holder:	700mm ($27\frac{1}{2}$")
Height with film holder:	1273mm ($50\frac{1}{2}$")
Weight with film holder:	276hg (620 lbs.)

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ATTACHMENT 2

TENTATIVE EQUIPMENT EVALUATION FORM

A. Please answer either by checking "Yes", "No", or Not Applicable.	YES	NO	NOT APPLICABLE
1) Is this piece of equipment satisfactory as is?	____	____	____
2) Does it fulfill a real requirement?	____	____	____
a) Can you now accomplish a new job?	____	____	____
b) An old job easier?	____	____	____
c) An old job faster?	____	____	____
d) An old job more accurately?	____	____	____
3) Would its training time outweigh its eventual advantages?	____	____	____
4) Is equipment comfortable to use?	____	____	____
a) Seating position comfortable?	____	____	____
b) Viewing position comfortable?	____	____	____
5) Does it produce noticeable fatigue?	____	____	____
a) Eye fatigue?	____	____	____
b) Muscular fatigue?	____	____	____
6) Is the intensity of illumination adequate?	____	____	____
a) Is the color of illumination pleasing?	____	____	____
b) Is glare a problem?	____	____	____
7) Is resolution adequate?	____	____	____
a) Is the magnification range broad enough?	____	____	____
8) Is the field of view large enough?	____	____	____
a) Is the image's shape distorted?	____	____	____
b) Is its color aberrated?	____	____	____
9) Is the operating temperature low enough?	____	____	____
10) Is this machine of sufficient durability for its potential working environment?	____	____	____
11) Are the controls satisfactory?	____	____	____
a) Too hard to reach?	____	____	____
b) Too hard to identify?	____	____	____
c) Would you prefer a greater degree of control automation (more buttons rather than handwheels, joysticks, etc.)?	____	____	____
d) A lesser degree?	____	____	____
12) Can the same job be performed better on an existing instrument?	____	____	____
If so, one which one?_____	____	____	____
13) Is any operation too time-consuming?	____	____	____
If so, which one(s)?_____	____	____	____
14) Is this instrument too complex?	____	____	____
If so, in what way?_____	____	____	____
15) Is pointing easy enough?	____	____	____
a) Is the reticle satisfactory?	____	____	____
If not, how not?_____	____	____	____

B. 1) Please discuss whether or not your objections to this development, if any, are to its total concept or to its specific implementation.

2) What essential improvements would you recommend? What alterations, additions or deletions do you think are necessary?

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