SECRET Approved For Release 2002/06/47 F.: OIA-RDP78B**747 700 19**0002004年8

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R & D CATALOG FORM 1. PROJECT TITLE/CODE NAME 2. SHORT PROJECT DESCRIPT				6 January 1966		
Direct (Virtual) Image Viewer	F			nt of a	production	n model view
3. CONTRACTOR NAME		4	. LOCATION	OF CONTRA	CTOR	
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5. CLASS OF CONTRACTOR Manufacturer	6	B. TYPE OF			A-,	
7. FUNDS	8. REQU	ISITION NO.			9. BUDGET PR	OJECT NO.
FY 19 65 \$		N/A			NP-DV-5	5
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12. RESPONSIBLE DIRECTORATE/OFFICE/PR	.	-	· ·			
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R&D CATALOG FORM Continued...

NP-DV-5

- 18. The various characteristics of this viewer are listed below.
 - 1) Magnification dual magnifications of 5X and 50X.
- 2) Observable Film Area the observable film area consists of a two (2) inch by two (2) inch square area in the film plane at 5X magnification, and two-tenths inch by two-tenths inch square area in the film plane at 50X magnification.
- 3) Film Size the viewer accepts for viewing single frames of either 4 x 5 inch or 70mm x 100mm film chips.
- 4) Exit Pupil Size the size of the composite exit pupil is at least 3.5 inches square.
- 5) System Resolution at 5X magnification, the viewer is capable of providing a system AWAR resolution of 20 lines per millimeter over the used field when referred to a low contrast target in the object plane. At 50X magnification, the viewer is capable of providing an on-axis resolution of 200 lines per millimeter at the film plane with a low contrast target.
- 6) Light Intensity the illumination system is variable and presents to the eye, with an open film gate, that amount of light flux as presented to the eye by a lambertian source with illuminance of 100 ft-lamberts.
- 7) Illumination Spectrum the illumination of the viewer system is contained in a narrow portion of the spectrum centered around 508.6 millimicrons. Various filters may be used to provide different band passes.
- 8) Film Positioning the viewer incorporates a provision for remote film positioning through X and Y translations to permit full coverage viewing areas for either 70mm or 5 inch film chips.
- 9) Focusing manual fine focusing control is provided for each magnification.
- 10) Film Temperature the temperature of film when mounted in the film plane of the viewer during operation does not exceed 90°F with an average density (silver) of 0.8.
 - 11) Viewer Controls the control panel contains the following:
 - a) main power ON/OFF
 - b) lamp ON/OFF
 - c) illumination intensity control

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R&D CATALOG FORM Continued...

NP-DV-5

18.

- d) magnification selector 5X and 50X
- e) lens focus 5X and 50X
- f) film translation + 2 inch X

+ 2 inch Y

12) Physical Size - the viewer has the following general dimensions:

length - 81 inches

height - 23 inches

width - 29 inches