

SECRET

(When Filled In)

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Approved For Release 2005/05/20 : CIA-RDP78B04770A001700010011-2

R & D CATALOG FORM

20 January 1966

1. PROJECT TITLE/CODE NAME Fibre-Optic Viewer Modifi- cation	2. SHORT PROJECT DESCRIPTION This project describes the addition of a power assisted film transport system and an image alternator system to the existing fibre-optic roll-film stereo- viewer.
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5. CLASS OF CONTRACTOR Manufacturer	6. TYPE OF CONTRACT FP
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7. FUNDS FY 19 \$	8. REQUISITION NO.	9. BUDGET PROJECT NO. NP-DV-8
FY 19 66 \$	10. EFFECTIVE CONTRACT DATE (Begin - end) 15 February - 30 June 1966 (est.)	11. SECURITY CLASS. A.A. - Confidential T. - Unclassified W. - Unclassified
FY 19 \$		

12. RESPONSIBLE DIRECTORATE/OFFICE/PROJECT OFFICER TELEPHONE EXTENSION DDI/NPIC/P&DS

13. REQUIREMENT/AUTHORITY The primary benefit of these modifications will be the reduction of operator fatigue while operating the fibre-optic viewer. Specifically, these modifications were requested by CIA/IAD and will be made to their instrument.

14. TYPE OF WORK TO BE DONE Engineering Development
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15. CATEGORIES OF EFFORT MAJOR CATEGORY Direct Viewers	SUB-CATEGORIES Film Transport Systems Interpretation/Analysis
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16. END ITEM OR SERVICES FROM THIS CONTRACT/IMPROVEMENT OVER CURRENT SYSTEM, EQUIPMENT, ETC. The power film drive modification will reduce operator fatigue by reducing the physical power required to transport the film and will also permit motorized rapid film slewing. The image alternator modification will make the viewer, in effect, a change detection device.
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17. SUPPORTING OR RELATED CONTRACTS (Agency & Other)/COORDINATION As a result of contacts throughout industry and the Intelligence Community, it has been determined that this effort will not duplicate any existing program.
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18. DESCRIPTION OF INTELLIGENCE REQUIREMENT AND DETAILED TECHNICAL DESCRIPTION OF PROJECT (Continue on addi- tional page if required) Although the recently installed [redacted] 552-A Stereoviewer has proven to be unique and extremely versatile, certain limitations in the film transport system prohibit maximum utilization of the instrument. At the time of the concep- tion of the viewer, satisfactory solutions to these problems were not readily apparent and other methods of implementation were employed. Now, two and a half years after the original conception, more advanced solutions to the problems are available. (Contd)

19. APPROVED BY AND DATE OFFICE	DEPUTY DIRECTOR	DDCI
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R&D CATALOG FORM Continued...

NP-DV-8

18. Specifically, it is proposed to replace the manually operated film transports with power assisted transports, in which electric motors supply 85% of the necessary torque to the film spools. In addition, a high speed, completely motor driven, slew mode will be provided. This modification should substantially reduce fatigue and increase the efficiency of manual operation.

The image alternator modification will add the capability of alternating images from each optical channel, as seen by the operator, in the superimposed or stereo viewing modes. The mechanism will fit into existing space in the eyepiece assembly. This modification will permit evaluation of the change detection principle on operational materials without building an instrument specifically for this purpose.

Since these modifications require that the instrument be taken out of operation, it is recommended that both modifications be undertaken simultaneously to minimize this "down" time.

The cost of the Image Alternator modification is [redacted] and the Power-Assisted Film Transport is [redacted] for a total of [redacted]

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