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23 February 1967

25X1	ACUITY ADAPTERS FOR EYEPIECES - STAFF STUDY 02127
	1. PROBLEM:
	To develop a device which will permit a photo interpreter to set his own opthalmic correction on a stereoscope eyepiece, thereby optically optimizing the microscope for his personal use and making it unnecessary for him to wear glasses while looking through the instrument.
	2. BACKGROUND:
25X1	In August of 1964 the Imagery Analysis Staff received a recommendation from of the Optics Panel Scientific Advisory Board, that an opthalmic correction device be developed and tested for use by photo interpreters. He believes that interpreters using this device would not only see better but would experience considerably less eye fatigue than if they were to wear their own glasses as they now do. Following this recommendation CIA/IAS requested that the Technical Development Staff investigate the possibility of providing the type of
25X1	adapters suggested by
	.3. DISCUSSION:
	a. <u>Current Procedures</u> . Photo interpreters who require opthalmic corrective devices must wear eyeglasses when using a microstereoscope.
25X1	b. Origin of Concept. This concept of individual adjustable eyepieces containing integral opthalmic corrective prescriptions, originally suggested by in his capacity as a member of the Optics Panel Scientific Advisory Board, is based on theoretical and empirical findings that eyestrain and fatigue are materially lessened when optimum optical aids are employed by individuals doing visually exacting tasks such as those involved in the photointerpretation process.
·	c. Proposed Program. The proposed program will provide five separate matched sets of acuity adapters, each uniquely designed for an individual within the photo interpretation group. The initial five

NGA Review Complete

photointerpreters were selected to provide a test sample and will represent a cross section of the visual anomalies found among a represent-

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ative group of individuals, e.g. astigmatism and myopia. These five sets are to be tested operationally to prove the feasibility of the concept.

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d. Selection of the contractor. This contract is to be awarded on a sole source basis because it is too small to solicit on a broad participation basis. has been selected on the premise that the acuity adapters are to be designed for a viewing instrument and on the acknowledged technical competence of the firm itself. Should the initial five sets serve to prove hypothesis, competitive bids will be solicited to procure a larger quantity.
e. Contract Period. The acuity adapters are estimated to be deliverable within two or three months from initiation of the contract.
f. Coordination. Internal and external coordination has been part of the project since its inception. The appropriate technical personnel of PAG, CIA/IAS and TID have been briefed on this project. This project has been coordinated with DDS&T/ORD and presented to the Committee on Photographic Exploitation and representatives of Army, Navy and Air Force.
g. Alternative. There are two obvious alternatives to the development of acuity adapters:
 Use of contact lenses. Continuation of present procedures.
• The use of contact lenses poses a problem of inducing the photo interpreter to accept them. Indications are that many photo interpreters would probably not accept the use of contact lenses as readily as acuity adapters, and they cannot legally be forced to use them. The expense of contact lenses would probably be about equal to acuity adapters. As explained above, the second alternative is unacceptable.
5. RECOMMENDATIONS:
It is recommended that approval to contract with of FY-67 funds for a three-month effort.
REFERENCE AND ATTACHMENTS:
Tab A. Catalog Form

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Tab B. Development Objectives

Attachment:

Proposal

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	co 2004/41/36: C15-12DP78B04770	DATE
	CATALOG FORM	. 10 February 1967
1. PROJECT TITLE/CODE NAME	2. SHORT PROJECT DESCRIPTION The	e fabrication of acuity
Assistant Adoptions for	adapters for microscope e	
Acuity Adapters for	interpreter may have his	own, unique, opthalmic
Eyepieces 3. contractor name	correction.	CONTRACTOR
S. CONTRACTOR NAME	4. LUCATION OF C	- I
5. CLASS OF CONTRACTOR Manufacturer	6. TYPE OF CONTRACT Fixed Price	
7. FUNDS	8. REQUISITION NO.	9. BUDGET PROJECT NO.
FY 19 \$ None		NP-V-12-02127
FY 19. \$	10. EFFECTIVE CONTRACT DATE (Begin - end)	11. SECURITY CLASS.
Ψ	March - May 1967	AA-Confidential
FY 19 \$ None		T-Unclassified
· T	Pro Ison African Tri Ison	W-Unclassified
DDI/NPIC/TDS/	FROJECT OFFICER TELEPHONE EXTENSION	
13. REQUIREMENT/AUTHORITY Both m	edical and psychophysical exp	perts have deemed this
method superior to slasses	and contact lenses for refra	active correction during
photo interpretation.		doile content during
14. TYPE OF WORK TO BE DONE		
Engineering Develo	nment	
migricoling bevote		•
15. CATEGORIES OF EFFORT		
MAJOR CATEGORY	SUE	- CATEGORIES
Viewing Systems	Lenses	<u> </u>
•	Microscopes	
16. END ITEM OR SERVICES FROM THIS	CONTRACT/IMPROVEMENT OVER CURRENT SYS	TEM, EQUIPMENT, ETC.
Five separate prototype ad	apter sets, cases and instruc	ctions.
•		
17. SUPPORTING OR RELATED CONTRACTS	(Agency & Other)/Coordination Ther	e is no known equipment
ject has been constituted	ment which will satisfy this	requirement. This pro-
Photographic Emploitation	with: DDS&T/ORD, and present	ed to the committee on
Inocographic expicitation	and representatives of the Ar	my, Navy and Air Force.
18. DESCRIPTION OF INTELLIGENCE OF	UIREMENT AND DETAILED TECHNICAL DESCR	IRTION OF BOOLEGY (Continue of the
tional page if required) A An-	vice is needed which will per	mit photo intermediate
normally wear standard cor	rective eyeglasses, to remove	them and still he shir to
properly utilize stereosco	pes. There is reason to beli	eve that this on he does
by adding the proper corre	ctive opthalmic prescription	to the stareoscene are
pieces themselves. There	is some medical opinion that	indicates that this result
not only enable the PI to	see better but would also ser	ve to lessen overell over
fatigue	Sales and the sales are	ve so repress overall eye
19. APPROVED BY AND DATE	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	DIRECTOR	
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