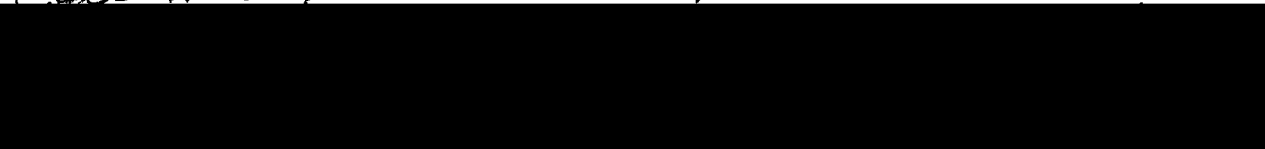


Info Source

6. Code Matrix Reader



There exists ~~in the very near future~~ a requirement for a Code Matrix Reader to provide rapid read-out of auxiliary data recorded in digitally coded form as a compact matrix of dots exposed in the margin of each film frame. The anticipated work load of reduction warrants development of a digital data reader in place of present semi-manual methods.

The Code Matrix Reader shall provide the following:

- ✓ a. Capability of reading out auxiliary digital data in the form of a matrix of dots in the margin of each film frame.
- ✓ b. Capability of accepting 1000 foot rolls of 35 mm through 9 1/2 inch widths input film.
- ✓ c. Capability of positive, accurate readout regardless of placement of the auxiliary digital data as long as it is parallel to or in line with the photo frame.
- ✓ d. The data block formats are undeterminable beyond that specified in MIL-STD 782 A. However this reader shall have conformity to any format by replaceable reading heads, designed for specific formats, as they come into being.
- e. The shape and spacing of the dots to be read shall conform to that specified in MIL-STD 782 A. Additionally, design shall be such that specific or varied formats can be read by replacement heads.

read base info. insufficient info.

by this reader

- ✓ f. Capability of reading the auxiliary digital data blocks shall be limited only by the speed of the read-out equipment (Magnetic tape or High-speed card punch)
- ✓ g. The film data readout shall be converted to electrical signals which shall ~~then~~ be used to record on a digital computer input form such as punched cards or magnetic tape.
- ✓ h. Two read-out options shall be considered in proposing and pricing (1) Magnetic Tape-IBM format, and (2) High-speed card punch. The tape recorder shall be an integral part of the system. The card punch will be GFE of the type recommended by the contractor.

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recommended for this equipment for the following reasons:

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[REDACTED] is currently engaged in development and fabrication of Project 57 Camera System, the output of which is two independent film rolls containing auxiliary data recorded in digitally coded form as a matrix of dots exposed in the margin of each frame. [REDACTED] has presented, both verbally and in preliminary proposal form, a unique method of digital data reading (proprietary), wherein the limitations of conventional CRT recording are overcome. They have proposed a solid-state system consisting of a microelectronic light source array with perfect uniformity of performance and extreme geometric stability.

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NATC Monitor: [REDACTED]

~~Proposed Monitor~~

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[REDACTED]