

CONFIDENTIAL

IPO/OSS/M-11/65
16 December 1965

MEMORANDUM FOR: The Record

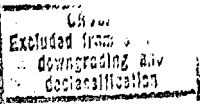
SUBJECT: Evaluation of Rear Projection Viewers

1. An evaluation by the Photographic Analysis Group has been completed determining illuminance and resolution at the viewing screen for the [redacted] 25X1
 705-V, [redacted] and [redacted] rear projection viewers. One each of the [redacted] 25X1
 and [redacted] instruments were available. Arbitrary selection of a [redacted] 25X1
 Viewer was made. No special techniques were applied to any of the instruments tested and it is considered that a fair evaluation was made for all, under the testing procedures carried out.

2. Illuminance tests were made by using a [redacted] Photometer with a meter which sensed approximately a 2" diameter screen area. Angular illuminance measurements were made by an [redacted] photometer for both the [redacted] 25X1
 and [redacted] none were made on the [redacted] When high illuminance 25X1
 readings could not be made due to limitations on the meter scale, a 1.0 neutral density filter was placed on the screen and the sensor illuminance read through the filter. These readings were multiplied by 10 to determine the corrected readings. Angular illuminance readings were taken at the center of the screen at angles of 0° and at 15°, 30°, 45° to the left and right of the projected screen axis. Readings below 100 foot-lamberts were not taken.

Declassification Review by
NGA/DoD

CONFIDENTIAL



25X1
25X1

25X1

CONFIDENTIAL

Approved For Release 2004/03/26 : CIA-RDP78B05171A000100050002-2

SUBJECT: Evaluation Of Rear Projection Viewers

25X1
25X1
3. Resolution readings were made using [] three-bar targets recorded on 70mm film. All target resolutions on this film were capable of transmitting a 228 l/mm target. This was verified by checking each target through use of a [] High Power Stereoviewer. Color fringing made resolution determination difficult. Generally, the higher the recorded resolution (not magnification necessarily) the lower the amount of color fringing. One of the best lenses was, surprisingly, the [] 15X lens.

4. These test were made by personnel having no prior experience in testing equipment; however, sufficient instruction and spot checks were made to insure the validity of these recordings. A listing of the results of all tests are attached to this memorandum. These recordings are not to be construed as the maximum capability of the instruments tested when optimum conditions are present but rather the capability of the instruments under normal working conditions with maintenance provided when required.

[]

Chief, Logistics Support Section, PAC

Attachment:
Test Results

CONFIDENTIAL

Approved For Release 2004/03/26 : CIA-RDP78B05171A000100050002-2