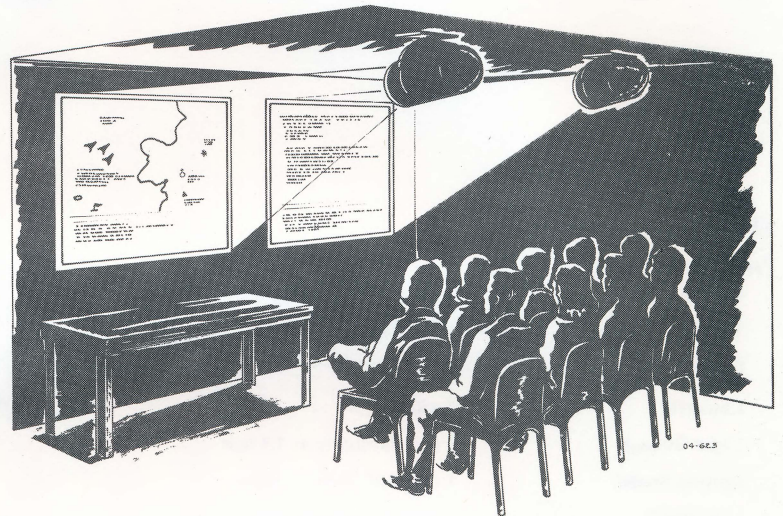


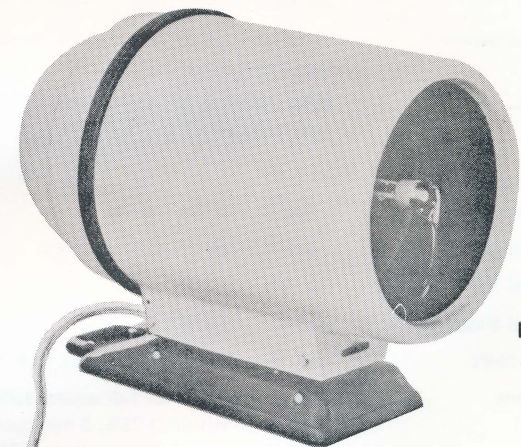
MODEL 8060 PROJECTION DISPLAY FOR COMPUTER GRAPHIC TERMINALS SYSTEMS



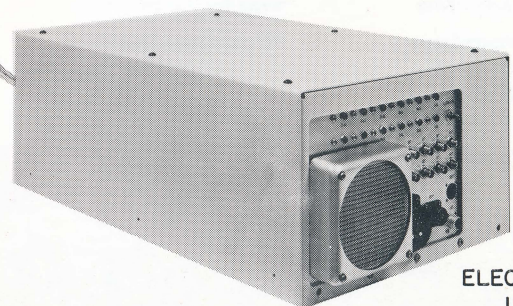
The MONITOR Model 8060 Projection Display is a direct-writing, alphanumeric/graphic computer output display. Characters, dots, vectors, or conics may be displayed. Gamma correction and delay time cancellation are provided so that special circuits are not required in the appropriate generators. The tube is protected from phosphor burns as a result of failure in the deflection circuitry or absence of input signal. Up to 1000 characters may be displayed at a refresh rate of 60 Hz; the writing rate for vectors and graphics is 1,000,000 inches/second. A complete line of character, vector, circle, and arc generators is available from MONITOR to work with this unit. Projection is accomplished thru a Schmidt optical system. The projection head is separate from the display electronics thus allowing optimum positioning of the projection head.

DESIGN FEATURES

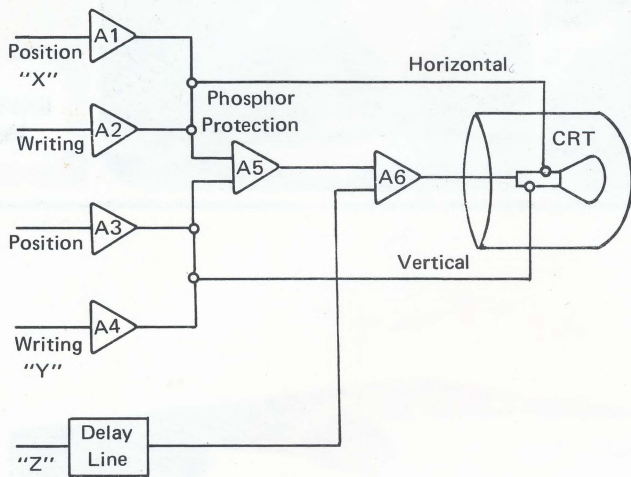
- Single Magnetic Coil Deflection
- All Silicon Solid State Circuitry
- Large Display Area (48" x 48")
- Zero differential delay interface for faithful reproduction of characters, vectors, and conics.
- Gamma Correction
- Phosphor Protection
- Low Power Consumption
- Separate Projection Head



PROJECTION
HEAD



ELECTRONICS
UNIT



A1 through A4 are wideband amplifiers used for positioning and writing. All amplifiers are DC coupled and have 75-ohm inputs. Self-contained adjustments are available to set up each channel. A5 is the phosphor protection amplifier whose output inhibits the z-axis amplifier, A6, should there be no deflection signal at the outputs of A1-A4. A6 is the z-axis amplifier with gamma correction which is DC coupled and accepts an analog signal. A delay line is added in series with the input to match the delay of the x and y amplifiers.

SPECIFICATIONS

Projection Head

Size and type	14" Schmidt Optics
Throw Distance	13' - 18'
Display Area	48" X 48"
Linearity	±1%
Light Output	5 foot-lamberts at 13 feet
Writing Speed	1,000,000 inches/second
Line Width	0.100"

Frequency Response	1 MHz @ 3db
X-Y Differential Phase Shift	Less than 1 line separation @ 1 MHz

Inputs (BNC Connectors, rear)

1. X-Input Major Deflection
2. X-Input Minor Deflection
3. Y-Input Major Deflection
4. Y-Input Minor Deflection
5. Z-Input

Z-Axis

Input Sensitivity	+3v for full intensity
Input Impedance	75-ohm termination is standard.
Rise Time	50 nsec.
Gamma Correction	Light output is linear with respect to input voltage.
Delay Time	Zero differential delay of the z-axis with respect to the X and Y signals.

Operator Controls

- On/Off
- Focus
- Intensity

Service Adjustments: (Rear)

- X-Input deflection sensitivity
- X-Input D.C. level
- Y-Input deflection sensitivity
- Y-Input D.C. level
- Z-Input D.C. level

Major Deflection

Input Sensitivity	5 vpp for 48" deflection
Input Impedance	75-ohm termination is standard
Large Signal Response	20 KHz
Small Signal Response	500 KHz @ -3db
X-Y Phase Shift	Less than 1 line separation at 15 KHz
Settling Time	25 microseconds for full screen deflection to settle to within 0.25%. 3 microseconds for 1.0 inch to settle to within 0.25%.

Power Requirements	115V ±10% 60 Hz, 300 watts
Environment	50°F to 100°F
Size	Electronics Unit 9"H x 14½"W x 28½"D Projection Head 20"H x 16"W x 30"D
Weight	Electronics Unit - 75 pounds Projection Head - 35 pounds

Minor Deflection

Input Sensitivity	5vpp for 2 inch deflection
Input Impedance	75 ohm (termination)

Other Options

- Higher performance
- Custom configuration
- Daisy chain operation
- Ruggedized units
- MIL or NASA Specifications

8060 4-70 10M

Monitor Displays reserves the right to change specifications without notice.

MONITOR DISPLAYS
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