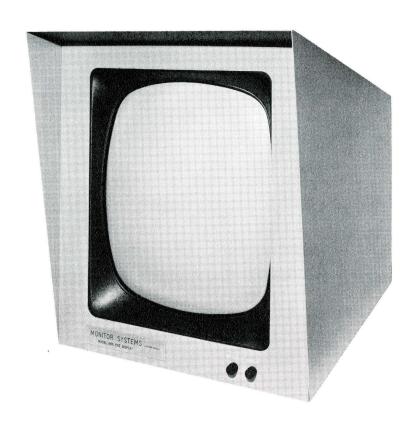


MONITOR 8011 CRT DISPLAY for

COMPUTER GRAPHIC TERMINALS

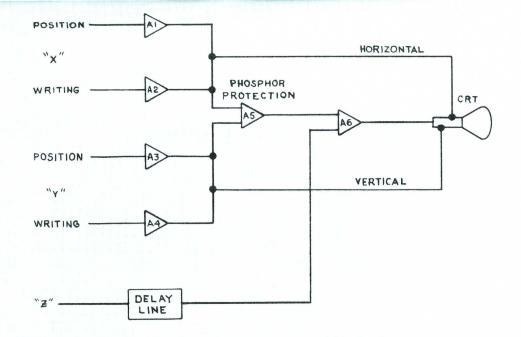


The MONITOR Model 8011 CRT Display is a direct-writing, alphanumeric/graphic computer output display. Characters, dots, vectors or conics may be displayed. Gamma correction and delay time cancellation are provided so that special circuits are not required in the appropriate generators. The tube is protected 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 vector s and graphics is 500,000 inches/second. A complete line of character, vector, circle, ellipse and arc generators is available from MONITOR to work with this unit.

DESIGN FEATURES

- LARGE DISPLAY AREA (10" x 12")
- BONDED FACEPLATE
- GAMMA CORRECTION
- ZERO DIFFERENTIAL DELAY INTERFACE FOR FAITHFUL REPRODUCTION OF CHARACTERS, VECTORS, AND CONICS.

- ALL SILICON SOLID STATE CIRCUITRY
- PHOSPHOR PROTECTION
- PINCUSHION CORRECTION
- LOW POWER CONSUMPTION (250 WATTS TYPICAL)



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

CATHODE-RAY TUBE

	SIZE AND TYPE	
	DISPLAY AREA	±1% ±2% 50 foot-lamberts 500,000 inches/second
Z-A	AXIS	
	INPUT SENSITIVITY	+3 v for full intensity
	INPUT IMPEDANCE	75 ohm termination is
		standard.
	RISE TIME	
	GAMMA CORRECTION	Light output is linear with respect of input voltage
	DELAY TIME	
		of the z-axis with respect to the X and Y signals.
MA	AJOR DEFLECTION	
	INPUT SENSITIVITY	5 v p-p for 12" deflection.
	INPUT IMPEDANCE	75 ohm termination is standard.
	LARGE SIGNAL RESPONSE	20 kHz.
	SMALL SIGNAL RESPONSE	500 kHz @ -3db.
	X-Y PHASE SHIFT	
		@ 15 kHz.
	SETTLING TIME	
		microseconds per inch of

ar 1: ±: 5: 5:	21" with P31 phosphor and bonded faceplate. 13" x 14" ±1%	MINOR DEFLECTION INPUT SENSITIVITY 5 v p→p for 0.5 inch deflection. INPUT IMPEDANCE
		INPUTS: (BNC Connectors, rear) 1. X-input Major Deflection 2. X-input Minor Deflection 3. Y-input Major Deflection 4. Y-input Minor Deflection
	+3 v for full intensity	5. Z-input
	75 ohm termination is standard. 50 nsec Light output is linear with respect ot input voltage	OPERATOR CONTROLS: (Front) On/off Focus Intensity
		SERVICE ADJUSTMENTS: (Rear).
	of the z-axis with respect	X-input deflection sensitivity
	to the X and Y signals.	X-input D. C. level Y-input deflection sensitivity
	5 v p-p for 12" deflection. 75 ohm termination is standard.	Y-input deflection sensitivity Y-input D. C. level Z-axis D. C. level
	20 kHz. 500 kHz @ -3db.	POWER REQUIREMENTS
	Less than 1 line separation @ 15 kHz.	with slides and cover.
	3.0 microseconds plus 1.5	24½" H x 19" W x 27½" D.
	microseconds per inch of deflection to settle within 1 spot	CABINET as illustrated (Optional) Quick Access type. 27" H x 22" W x 36%" D.
	size.	OTHER OPTIONS Higher performance



DATA TERMINALS COMPUTER DISPLAYS DATA SYSTEMS

PHONE 215-646-8100 TWX 510-661-1520

Custom configurationsDaisy chain operation,Ruggedized units.

MIL or NASA Specifications