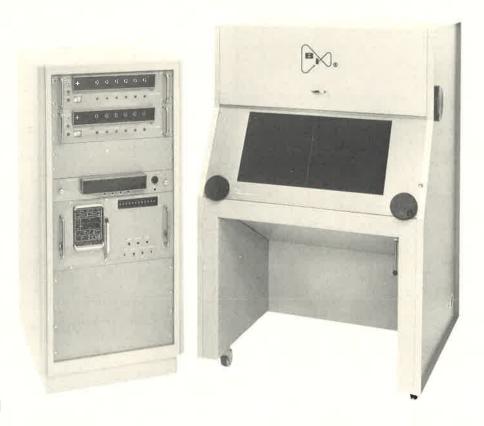
# BROOMALL INDUSTRIES

### **DIGITIZING SYSTEMS**

Model 17-C



#### DESCRIPTION

The 17C Universal Reader is designed as a general purpose record reader for records on film or hard copy, accommodating all record sizes from 16mm to 12-inch. sprocketed or unsprocketed records, and providing maximum flexibility for the data reduction center with a "mixed" load.

Three interchangeable projection lenses (2x, 4x, 11x) allow image magnification to suit the record being read. Magnification is quickly and easily changed by swinging the selected lens into place by its swing-type mounting bracket. The crosswire alignment system is engineered to insure that linearity of the image is maintained over the entire screen within the measuring accuracy limits of the crosswire system, regardless of the magnification power being used.

Direct X-Y axis record reading is accomplished by positioning the crosswires in relation to the data point to be measured. The traversing cursors are directly communicated to the two 15A Magnetic Read Heads which convert the cursor movement to a digital value. Digital position conversion is automatically displayed on two banks (X and Y) of Nixie readouts located on the front of the Telecordex. Output may be direct to punched cards, punched paper tape, electric typewriter, or to magnetic tape.

#### OTHER FEATURES INCLUDE ...

- · Solid State Bi-directional counters with Nixie Display
- Instant Format Control with Removable Patch Panel
- Two Decade Channel Counter and Four Decade Time Accumulator
- 250 Watt Mercury Vapor Lights for Opaque Records
- · Guaranteed Non-Obsolescence with the Telecordex Electronics System



## **17C UNIVERSAL READER**

ST	ANDARD FEATURES	С	PTIONAL FEATURES
reading area	$12\frac{1}{2}$ " wide by $6\frac{1}{2}$ " high measured at the record; $12\frac{1}{2}$ " high by $24\frac{1}{2}$ " wide measured at the viewing screen.	output	Punched paper tape, Electrotyper, Magnetic tape using 282M Telecor- dex and 556 bpi incremental tape transport.
reading accuracy	0.0019 (2X lens), 0.001 (4X lens), 0.00037 (11X lens).	readout	4 digit event display (Nixie) counter. Displays a running count of recorded readouts, and may be set to advance in selected increments of 0 thru 9 with each readout as an accumulator for card sequence control.
output	024/026/029 Keypunch or 523 Summary Punch.		
visual readout	5 digit display and readout (Nixie), indicating the sign and 5 digits in each axis.	visual readout	6 digit display and readout (Nixie), indicating the sign and 6 digits in each axis.
storage	±999,999.  208, 416, and 832 counts per inch	multi channel	Two decade channel counter and Four decade time line counter, mounted in its own case.
resolution	with a 1000 counts per revolution 15A Magnetic Read Head.	mercury vapor lights	Two 250 watt Mercury vapor lights for backlighting opaque records.
counting rate	50,000 counts per second.		
identification	12 fixed data digit switches are pro- vided for entering fixed data following readout.	70B Light Source	Provides increased illumination and improved film handling.
	Damayahla ayayahayla yaagyayayaahla	MECHANICAL SPECIFICATIONS	
format control	Removable operator's programmable patchboard allows formats to be generated to suit the specific problem.	size	17C: 58" tall; 36" wide and 34" deep. 282E: 53.5" tall, 23" wide and 29.5" deep.
optical system	Magnification: 2X, 4X, 11X Focal Length: 14", 10", 5" Resolving power in lines per mm: 20, 40, 60	weight	17C: 450 pounds (approx.) 282E: 350 pounds (approx.)
motor driven paper transport	Bi-directional, variable speed paper advance for roll type records.	construction	Double wall, welded sheet steel with brushed aluminum trim.
cursors	0.0035" diameter crosswires traversing in the same plane as the image.		
viewing screen	Backlighted viewing screen with variable lighting intensity.	color	Light blue with gray trim.
environment	+40°F to +85°F.	WARRANTY  The 17C Universal Reader includes installation by a factory trained field engineer and a 90 day warranty from date of installation.	
power requirements	115V $\pm 10$ V, 60 cycle, single phase, 8.3 amps.		

