

# LIBRASCOPE X-Y PLOTTER

*for graphic presentation of digital or analog data*

*with the exclusive new*

**PUSH-BUTTON CONTROL**



## FEATURES:

**PUSH-BUTTON CONTROLS** ... for operation of X and Y scales, power and vacuum on and off, plot clear, 4-quadrant plot, X and Y reference, reference plot, continuous trace, and manual plot.

**THUMB-WHEEL CONTROLS** ... for operation of X and Y axis references and X and Y scale verniers.

**PUSH-BUTTON PLOTTING** ... may be operated from panel or remote keyboard.

**CONTINUOUS TRACE** ... pen drops for continuous curve recording.

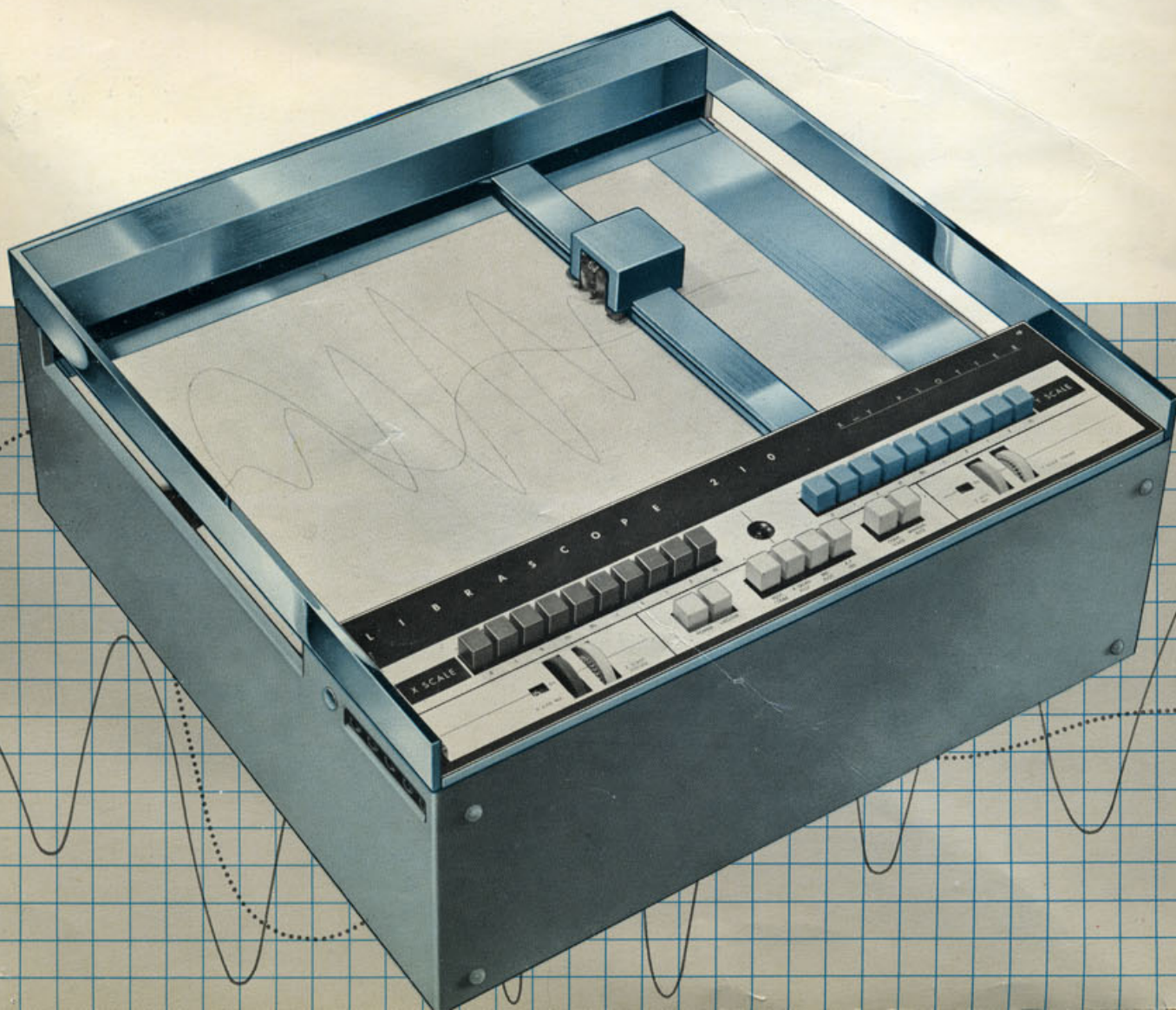
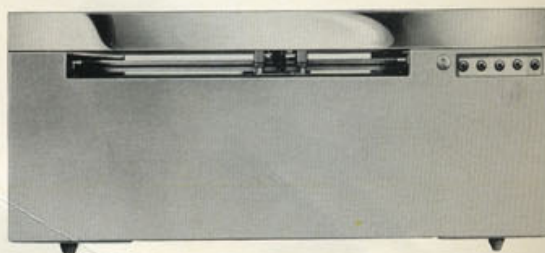
**FLAT VACUUM PLATEN** ... with back-lighted paper alignment grids.

**HIGH STABILITY** ... no zero drift or shift in origin when changing scales.

**ACCURATE, COMPACT, AND CONVENIENT** ... resulting from extensive field research and careful attention to detail by Librascope engineers in association with top industrial designers.

# LIBRASCOPE X-Y PLOTTER

MODEL  
210



## SPECIFICATIONS

INPUT:	X and Y inputs isolated from each other and from ground.
INPUT RESISTANCE:	2 megohms nominal on 0.5 thru 10 volt per inch scales. 1 megohm per volt full scale on 0.5 millivolt per inch to 0.1 volt per inch scales.
INPUT SENSITIVITY:	0.5 millivolt per inch to 50 volts per inch with calibrated push-button scales at 0.5, 1, 5, 10, and 50 millivolts per inch; and 0.1, 0.5, 1, 5, and 10 volts per inch. Vernier controls permit continuous sensitivity adjustment between fixed scales, allowing full-scale plotting for any sensitivity.
ACCURACY:	Static, 0.1%, and dynamic, 0.2% of full scale. Plotter calibration accuracy, 0.05% on all scales.
SLEWING SPEED:	20" per second. Acceleration greater than 250" per second squared on both axis.
POWER REQUIRED:	115 volts, 50 to 60 cycles, 180 watts.

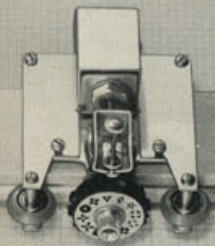
## PHYSICAL DESCRIPTION

### MODEL 210 TABLE MOUNT PLOTTER

CASE DIMENSIONS:	Width, 19½ inches
	Depth, 19½ inches
	Height, 7½ inches
	Weight, 60 pounds

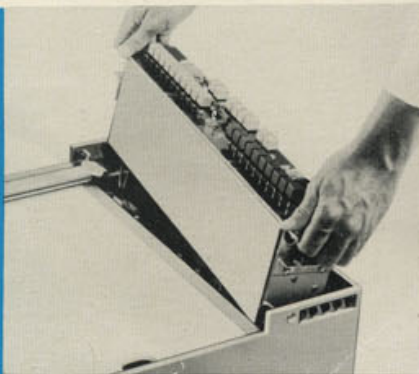
### MODEL 210R RACK MOUNT PLOTTER

CASE DIMENSIONS:	Width, 19 inches
	Height, 19½ inches
	Depth, 12 inches
	behind mounting plane;
	2¼ inches in front



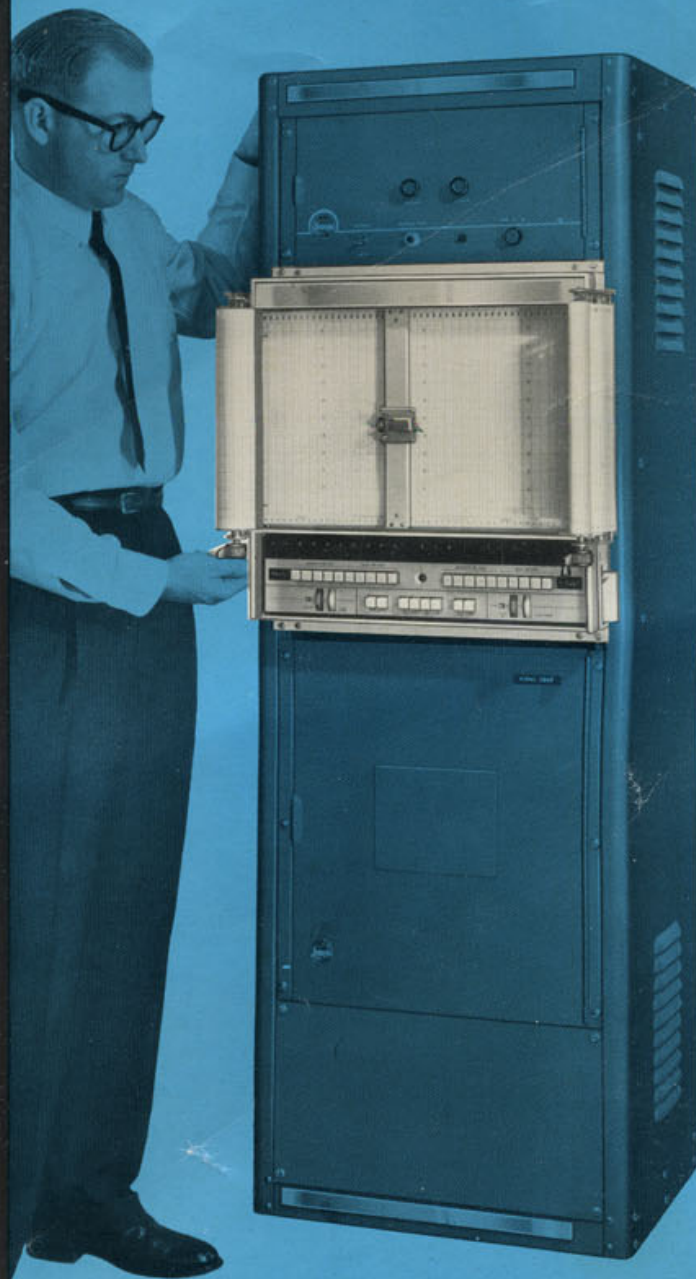
### printing head and pen systems

Providing 12 symbols, Librascope's new printing head technique eliminates ribbons and stamp pads. The pen and its visible ink reservoir are splatter-proof during periods of extreme activity. Capillary pen action assures line uniformity at all speeds with free flowing tracking action.



### interchangeable push-button control module

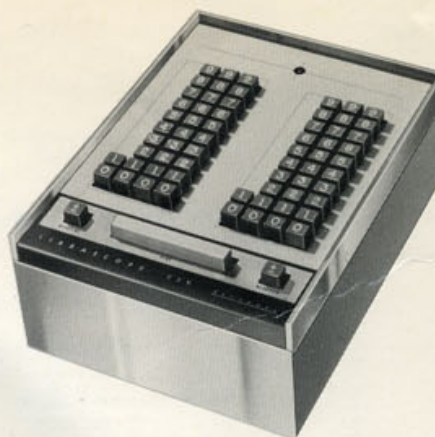
This is but one of many exclusive features which combine to make Librascope's X-Y Plotter an instrument which is not only attractive but highly functional and unusually compact. Push-button controls, color coding, and maximum simplicity are other features resulting from Librascope's field research and human engineering studies.



### rack-mounted X-Y PLOTTER MODEL 210R compact mounting — no waste space

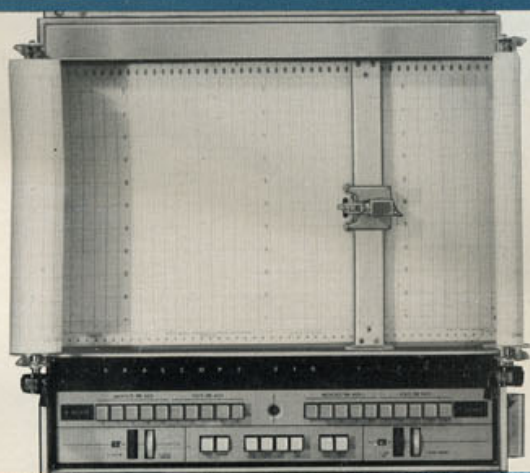
The 210R is ideally suited for mounting on instrument control panels or for use in association with other vertically arranged electronic instruments. The Plotter and several accessories, including Punched Card and Punched Tape Converters, are specifically designed for direct mounting to a standard 19-inch rack. The modular concept and compact size of the Plotter make it adaptable for multiple grouping with full visibility and operating ease.

# LIBRASCOPE X-Y PLOTTER ACCESSORIES



## DECIMAL KEYBOARD • MODEL 229

Remote input accessory designed specifically for use with Librascope's X-Y Plotter. Keyboard functions as a digital potentiometer, converting decimal information to an analog voltage by dividing each axis of Plotter into  $1,999 \pm$  discrete increments. High accuracy and dependability are obtained through mercury cell voltage reference.



## ROLL PAPER ADAPTER • MODEL 223

This continuous roll paper adapter may be utilized with either table (Model 210) or Rack-Mount Plotter (Model 210R). Adapter makes it possible to accommodate a continuous roll of chart paper up to  $11\frac{1}{2}$  inches wide. Paper is manually advanced 15 inches for each new plot.

LIBRASCOPE X-Y PLOTTERS accommodate a full range of other accessory equipment, including: \* PUNCHED CARD CONVERTER \* PUNCHED TAPE CONVERTER \* MULTIPLE SYMBOL PRINTING HEAD \* X AXIS TIME DRIVE

Optional Provision... upon special order, either Librascope X-Y Plotter may be equipped with:

\* THREE-TURN POTENTIOMETERS \* INTEGRATOR ADAPTER  
\* SHAFT CONVERTER \* ZERO SUPPRESSION

## LIBRASCOPE Products for Industry

*Design and development of computers, computer components, and controls has been the professional responsibility of Librascope for over 23 years. Librascope's record of achievement in the field is represented today by a broad range of advanced computer products for commercial application. Your inquiry will be welcomed, and should be directed to...*

## LIBRASCOPE DIVISION GENERAL PRECISION, INC.



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