

4662

TEKTRONIX

Compatible in all RS-232-C ASCII environments; and with Plot-10 Graphic Software.

Interactive Digital Plotter

An intelligent plotter: what will it think of next? The 4662 is the first plotter with built-in processing power. As such it has the capability to work on its own, without bogging down computational operations. Studded with state-of-the-art technology, it works with an accuracy and repeatability that no other low-cost plotter can approach.

From the moment you turn it on, you can tell the difference: the 4662 automatically adjusts for 10" x 15" (25.4 cm x 38.1 cm) plot. There's no need to worry how the last plot was set up. When you wish to set a different plotting area or adjust to a new paper size, you simply use the SET control buttons on the front panel to define the new area.

Once it starts moving, you really notice the improvement over other plotters: the 4662's digital stepping motors and internal vector generator work at high speed, with microprocessor-controlled acceleration and deceleration.

Repeatability is excellent, time after time. There is no servo hysteresis, no drift as in potentiometric feed-back systems. And no slidewires to clean, no moving electrical contacts, no servo adjustments to be made.

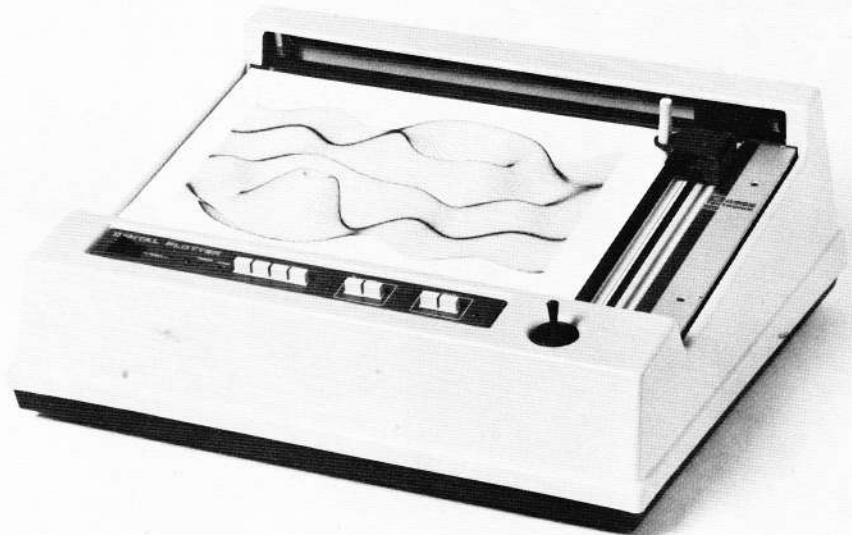
It's a whole new kind of plotter, at the kind of surprisingly low price for which Tektronix is famous.

The complete plotter. The 4662 is not only easy to talk to, it has a great memory. Input data is internally buffered so you can optimize data transfer from your host processor, or move

on to your next computation while the 4662 is plotting.

Four-part harmony. Up to four 4662's can be teamed up in series. Each plotter can perform its own job simultaneously while the host processor turns to other tasks. A simple, unique code activates each plotter.

The joy of digitizing. Digitizing on any compatible graphic terminal or host system is easy with the 4662's built-in joystick control. Move the pen to the desired position on the plot, press the CALL key, and the plotter sends the x-y data points to the system. A GIN command causes the plotter to send the current XY pen coordinates and pen up, pen down information. If the pen is outside the page boundaries, boundary values are sent and a bell on the plotter signals the operator.



Penmanship is excellent. The 4662's internal alphanumeric character generator produces a full upper-lower case ASCII character set. You can request alphanumerics of any height and width. Selected characters are available in seven different standard fonts. In addition, interchangeable pens offer multi-color capability.

Plot from any point of view. Not only is character scaling possible, but alphanumerics can just as rapidly be rotated in 1° or finer increments. Drawing speed is generally faster than any other plotter anywhere near the 4662's price range.

Specifications:

Performance Characteristics:

Plotting area:

X-Axis greater than 15" (38.1 cm)

Y-Axis greater than 10" (25.4 cm)

Repeatability:

$\pm 0.0025"$ (± 0.06 mm)

Accuracy:

.4% of vector length $\pm .0025"$

(± 0.06 mm) calibratable to $\pm .005"$
(0.127 mm)

Time to Maximum Velocity:

approx. 120 ms.

Data Resolution:

0.005" (0.127 mm)

Plotting rate:

16-22 IPS vector dependent

(40.6-55.9 cm/sec).

Point plotting rate:

Pen action rate 10 points/sec. max.

Character set:

95 ASCII printing characters plus
BEL, BS, CR, FF, HT, LF and VT
control characters.

Pen Control:

By software control or by operation
of front panel PEN button. Pen may
be disabled manually.

Position controls:

Joystick vector rates variable from
.015 ips to 4 ips. (.038 cm/sec to
10.2 cm/sec)

Writing method:

Nylon-tipped pen.
Paper size:
11" x 17" maximum (27.9 cm x
43.2 cm).

Paper retainer:

Electrostatic holddown.

Drive characteristics:

Pen motion in the X and Y axes is
controlled by four phase stepping
motors operating through a preci-
sion pulley/cable system.

Front Panel Controls:

POWER switch.

POWER indicator.

PROMPT indicator.

ERROR indicator.

LOAD switch.

Disengages electrostatic hold-
down, moves pen to upper right
corner of plotting surface.

LOCAL SWITCH.

For data communication between
terminal and plotter, with the
RS-232-C interface.

PEN switch.

Provides manual control of pen
up-down motion.

CALL switch.

Used to store co-ordinate points
during digitizing operations.

SET controls.

Two switches—SET LOWER LEFT
and SET UPPER RIGHT—used for
convenient page scaling and aspect
ratio changes if desired. May be
used to allow plotting mirror images.
JOYSTICK positioning control.

LOCATE controls.

Two switches—LOCATE LOWER
LEFT and LOCATE UPPER RIGHT
—position pen in respective corner
of the currently defined page.

REAR PANEL controls.

Four rotary hexadecimal switches
to control various interface param-
eters.

RS-232-C Interface specifications:
RS-232-C compatible. Asynchron-
ous full duplex data transmission at
110, 150, 300, 600 or 1200 baud.
All data transmitted in ASCII.

OPERATING Modes:

The 4662 is has 2 input modes in
RS-232-C; Alphanumeric (Alpha),
Graphic plot (Graphic). The 4662
also has Graphic Input (GIN) to the
host. The alphanumerics feature
includes 95 ASCII printing char-
acters plus BELL, BS, CR, FF, HT,
LF and VT characters, all under full
program control. The alphanumeric
feature may be changed to suit the
individual needs by modifying Alpha
Scale which allows changing
character size, Alpha Rotate which
rotates the printing plane and Alpha
font which allows selection of 7 sets
of special character fonts.

General Purpose Interface Bus (GPIB)

Specifications: Conforms to IEEE
standard 488-1975. Byte serial, bit
parallel transfer mode.

Input Power:

90W maximum, 60W typical.
Selection of 105V $\pm 14\%$, 116V
 $\pm 14\%$, 210V $\pm 14\%$, 232V $\pm 14\%$.
Line frequency 48 to 66 Hz.

Dimensions:

Width: 20 $\frac{3}{8}$ " / 51.7 cm. Height: 8" /
20.3 cm. Depth: 19 $\frac{1}{2}$ " / 49 $\frac{1}{2}$ cm.

Weight:

30 lbs. 4 oz., 13.8 kg.

Shipping Weight:

45 lbs. 14 oz., 20.8 kg.

Environmental:

Temperature:

Operating 0° to 50° C. Non-operat-
ing -55° C to +75° C.

Altitude:

Operating to 15,000 feet.
Non-operating to 50,000.

Safety Considerations:

Designed to UL and IEC standards.
UL listed. CSA approved.

Transportation:

Qualifies under National Safe
Transit Committee test procedure,
1A, Category II.

Standard Accessories:

Power cord.

4662 RS-232-C cable.

3 pens each, black, red, green,
blue.

User's Manual.

Stylus (for digitizing cursor).

Paper (100 sheets, 11" x 17"

27.9 cm x 43.2 cm)

linear grid lines 10 x 10 to the inch.

Optional Accessories:

Pens.

Paper. (Linear, logarithmic, blank)

Dust cover.

"REMOTE CALL" foot switch.

Option 1, GPIB cable.

Carrying/shipping case.

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