

Desktop graphics copier:  
High quality, low-cost  
black and white hard copy  
from raster scan video displays.

# DEC-COMPATIBLE GRAPHICS COPIER



**The Tektronix 4612 Video Hard Copy Unit is plug-to-plug compatible with DEC:**

- VT180 (personal computer)
- VT125
- VT105
- DEC MINC
- Other VT100 series terminals including those with retrofit graphics
- VT100 compatible terminals
- Many other video displays and signal sources.

**A perfect match.** The 4612 is the ideal companion to DEC VT125's and other graphics-enhanced VT100 compatible terminals in applications where superior line quality graphics hard copy is required.

**Interfacing couldn't be easier.** Just plug the 4612's BNC cable into the composite video out port of your display terminal and you're done. No software writing or firmware alterations are necessary—ever!

**High-quality graphics and alphanumeric copy from unique Tektronix electrostatic technology.** The 4612 uses Tektronix' own implementation of quiet, non-impact electrostatic technology. The exclusive Tektronix process combines high addressability—over 250 horizontal dot placements per inch—with horizontal and vertical dot overlap. This results in a high-quality image with lines that are dark and smooth.

**Faithful copies of the densest display graphics in just 24 seconds.**

The 4612 copies graphics and alphanumeric exactly as they appear on your display. And copy time is never affected by the density of the image.

**Designed for simple convenience.**

At the press of a single button, the 4612 delivers vertical format copies that have the look and feel of plain paper. A paper-out light signals when it's time for a new roll of paper. Paper reloading every 540 copies takes only a few seconds. Just drop the roll in, pull out the end of the paper, and close the lid.

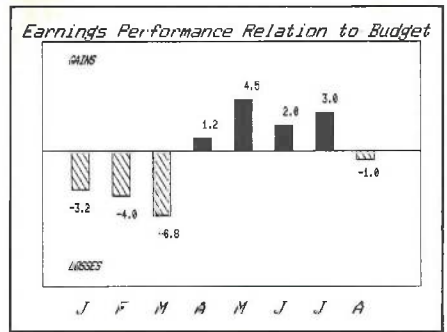
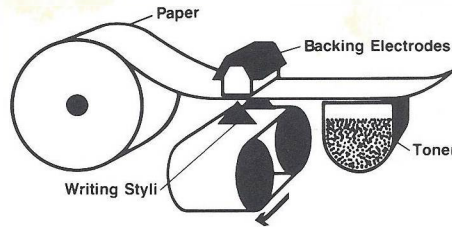
The dry toner used in the 4612 also offers special convenience. Once every few thousand copies it takes just a moment to open the front panel, and add a few ounces of dry toner. No ribbons or liquid chemicals to work with, no concentrates to add.

**Compatible with video signal sources.** The Tektronix 4612 Video Hard Copy Unit can serve up to four workstations at once with four-channel multiplexing (Option 2 for unit sharing). The 4612 is compatible with a wide variety of raster scan terminals, monitors, and other video signal sources, including those which produce RS-170, RS-330, or RS-375A signals.

**Tektronix**<sup>®</sup>  
COMMITTED TO EXCELLENCE

**Tektronix' own electrostatic technology.**

Inside the 4612 are six stainless steel writing styli that rotate on a belt just below the surface of the paper. At each moment, two of these styli are working in conjunction with a pair of electrodes, to transfer the image to paper in its preliminary form: a small amount of electric charge in the exact locations required. The charge then attracts particles of the toner, a dry black powder containing ordinary carbon and wax. Finally, the image is permanently heat-fused to the paper, for an especially high-contrast, long-lasting image.



**Options, Accessories, and Supplies**

**Options**

- Option 2 Four-Channel Multiplexer
- Option 3 Setup for 625/50 Scanning Standard
- Option 8 Setup for DEC VT100 Series Terminals
- Option 15 Video Input via 15-pin Connector
- Option A1\* Universal European 220 V/16A Power Cord
- Option A2\* United Kingdom 240 V/13A Power Cord
- Option A3\* Australian 240 V/10A Power Cord
- Option A4\* North American 240 V/15A Power Cord
- Option A5\* Swiss 230 V/6A Power Cord

\*48 to 62 Hz

**Standard Accessories**

- Power line cord, 120 V.
- Two rolls paper
- One container toner
- 4612 Operator's manual

**Supplies**

- Tektronix Standard Electrographic Hard Copy Paper: 2 rolls, 216 mm x 152 meters (8.5 in. x 500 ft.)
- Tektronix Dry Copy Toner 145 liters (4.9 oz.)

**Optional Accessories**

- 4612 Service manual
- 3 meters (10 ft.), 75 ohm BNC cable
- 7.6 meters (25 ft.), 75 ohm BNC cable
- T connector, BNC
- 3 meters (10 ft.), 15-pin cable
- 6 meters (20 ft.), 15-pin cable
- 15 meters (50 ft.), 15-pin cable
- 61 meters (200 ft.), 15-pin cable

**Performance Characteristics**

Page and Image Formats	Page Size	Image Size
Standard 4612	216 x 279 mm (8.5 x 11.0 in.)	190 x 143 mm (7.5 x 5.65 in.)
Option 3	216 x 279 mm (8.5 x 11.0 in.)	190 x 174 mm (7.5 x 6.85 in.)
Option 8	216 x 279 mm (8.5 x 11.0 in.)	178 x 112 mm (7.04 x 4.4 in.)

**Addressability**

256 dots per in. (100 per cm.) . . . Horizontal 170 dots per in. (67 per cm.) . . . Vertical

**Copy Time**

Standard 4612	Frequency	Copy Time
	60 Hz	21-24 seconds
	50 Hz	25-29 seconds
Option 8	60 Hz	26-30 seconds

**Line Voltage**

90-128 Vac 48-62 Hz (Internal strap change required for line voltage below 108 Vac.)  
 180-250 Vac 48-62 Hz (Option A1, A2, A3, or A4 required for line voltage above 180 Vac.)

**Video Compatibility**

**Video Type**

Composite video.

**Video Timing and Amplitude**

RS-170 (525/60 Hz) and CCIR (625/50 Hz) timing and amplitude formats.

**Other**

Timing and amplitude formats slightly different than those designated may be compatible with the 4612. Some internal adjustments may be required.

**Input Impedance**

High z: approximately 15 K-ohms to 5 MHz. Low z: 75 ohm internal selection.

**Physical Characteristics**

Height . . . . .	181 mm (7.135 in.)	Width . . . . .	425 mm (16.75 in.)
Length . . . . .	525 mm (20.65 in.)	Weight . . . . .	Approx. 20 kilograms (45 lbs.)

**Environmental Characteristics**

**Temperature**

Operating	5° to 35° C.
Non-operating	-55° to +60° C.

**Humidity**

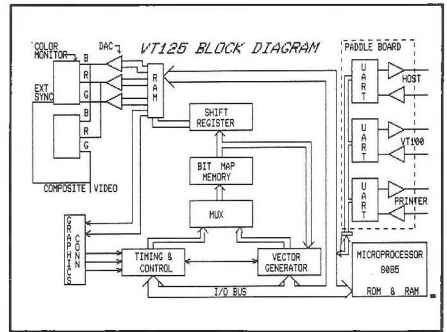
Operating	20% to 80% relative humidity, non-condensing.
Non-operating	0% to 90% relative humidity, non-condensing.

**Power Consumption**

Operating Stage	Nominal Supply Load	Max Supply Load
Warm-Up	300 watts	370 watts
Idle (After warm-up)	120 watts	185 watts
During Copy Process	215 watts	290 watts

**Safety and Transit**

Meets UL 144 and CSA 154 Safety Standards and National Safe Transit Committee Test Procedure.



For further information, contact:

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