608 and 624 Monitors

High Resolution with Ambient-Light Viewing

Expansion-Mesh-Halo Suppression

Excellent Gray Scale, High Brightness Display

The 608 is Tektronix' finest direct-beam viewing monitor. It is extremely well suited for high-performance display applications such as medical and military imaging and electronic instrumentation. The 608's high usable brightness, small spot size, and large screen give excellent direct-viewing capability. When such clarity or brightness is not required, the comparable 624 is recommended. Both the 608 and 624 produce detailed displays that are easy to read in high ambient light and produce quality photographs.

Special CRT design suppresses expansion-mesh halo, which ordinarily causes lower contrast and a "washed out" appearance that interferes with high-brightness gray-scale displays. Expansion-mesh-halo suppression results in a more readable display with subtle and accurate gray-scale images and detailed waveforms. In addition, imaging is critically sharp from corner to corner, particularly on the 608, which uses dynamic focusing.

The wide deflection factor facilitates integration with a broad range of designs. An optional metal bezel lets you use heavy cameras, including those with motorized roll-film backs, without causing distortion, defocus, or light leaks.

In addition, optional full-differential inputs help reject unwanted common-mode signals such as ground noise and power-supply hum. Plus, the 608 can be ordered with gamma-correction for photographic applications. This option produces linear light-output changes with a linear change of Z-axis input, typically within 20 percent.

CHARACTERISTICS

DISPLAY

Type — Flat-faced, electrostatic CRT.
Dimensions — 98 mm x 122 mm (3.9 in x 4.8 in).
Phosphor — GH (P31) is standard.
Spot Size 608: 0.25 mm (10 mils) at 170 cd/m² (50 ft-lb): max brightness — 240 cd/m² (75 ft-lb).
624: 0.3 mm (12 mils) at 170 cd/m² (50 ft-lb).

VERTICAL AND HORIZONTAL AMPLIFIERS

Bandwidth 608: DC to 3 MHz.
624: DC to at least 3 MHz.

Deflection Factor — Adjustable 50 MV/div to 0.25 V/div. Option 22 (6x attenuator) extends deflection factor to 1.25 V/div.

Input R and C 608: 1 MΩ paralleled by <60 pF.
624: 1 MΩ paralleled by <47 pF.

X-Y PHASE DIFFERENCE

608: One degree max to at least 1 MHz.
624: One degree max to at least 1 MHz.

MAXIMUM INPUT VOLTAGE — ±100 V (dc plus peak ac).

Linear Common-Mode Signal Range (with Option 21) — ±3 V (Option 22 extends range to ±15 V).

Recommended Source Impedance — <10 kΩ.

Z-AXIS AMPLIFIER

Z-axis amplifier permits intensity modulation of the writing beam.

Bandwidth 608: DC to 10 MHz over usable range.
624: DC to 5 MHz over usable range.

Sensitivity range is adjustable from 0 to +1 V to 0 to +5 V for full-intensity control.

Input R and C 608: 1 MΩ ±1% and <60 pF.
624: 1 MΩ ±1% and <47 pF.

Linear Common-Mode Signal Range (with Option 21) — ±5 V.

AC POWER

Voltage Ranges (±10%) — 100 V ac, 110 V ac, 120 V ac, 200 V ac, 220 V ac, and 240 V ac.

Line Frequency — 45 Hz to 440 Hz.

Power — 61 W max at 120 V ac.

PHYSICAL CHARACTERISTICS

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<th>Dimensions</th>
<th>mm</th>
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<tbody>
<tr>
<td>Height (without feet)</td>
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INCLUDED ACCESSORIES

CRT, instruction manual, operator's manual.

ORDERING INFORMATION

608 Monitor (without handle, feet, or covers) ................ $2,690
624 Monitor (without handle, feet, or covers) ............. $2,740

ORDER 09 — Internal Grounding (all 608 and 624) ......... $50
ORDER 09 — UL 544 Component Recognition (all 608 and
624) ....... $50
ORDER 10 — 25-pin Remote Program Connector X, Y, and Z (all
608 and 624) .............................................. $50
ORDER 20 — Without ac Supply (±18 V Unregulated
Supply Required) (624 only) .......................... $30
ORDER 21 — Full Differential Inputs X, Y, Z, and
Z-axis (all 608 and 624) ............................... $50
ORDER 22 — Extended Gain Range 5X Attenuator (all
608 and 624) ................................................. $35
ORDER 23 — Handle, Feet, and Covers (Not Available with Option 28) ................. $80
ORDER 24 — Linearized Z-Axis (Gamma Correction)
(608 only) ................................................ $75
ORDER 25 — TTL, Blanking .................................. $75
ORDER 28 — Covers Only (Not Available with Option 23) .......... $70
ORDER 29 — Metal Bezel ...................................... $70

OPTIONAL ACCESSORIES

RACKMOUNTING FOR 608B, 608, 624

Rackmount and Empty Cabinet Kit — Side-out 19 in rack
assembly which mounts a display monitor and an empty com-
partment horizontally. In the compartment you may put your
custom electronic circuitry and connect it to the display, all in
one enclosure. Order 040-0601-00 .................. $335

Display/Power Module Kit — Allows rackmounting of 606B,
608, and 624 with TM 503 Power Module. Minimizes mechani-
cal design time. Simply design your own electronics using
TM 503 Custom Plug-in Kit described on page 436. Then plug
them in. Fits standard 19 in rack. Order 040-0624-01 ... $120

Power Module Kit for 606B, 608, and 624 — Slide-out 19 in
rack assembly which rackmounts any two of the above dis-
plays side by side. Includes covers and rack slides.
Order 040-0600-00 ........................................ $200

Display to Cabinet Conversion — Required to convert a
rackmount 606B, 608 or 624 to a cabinet style.
Order 040-0602-00 ....................................... $150

SPECIAL PRICING. TERMS AND CONDITIONS ARE AVAIL-
ABLE TO QUALIFIED OEMS. CONTACT YOUR LOCAL TEK-
TRONIX REPRESENTATIVE FOR COMPLETE INFORMATION.