

# 7603/R7603 7623B/R7623B

## 100 MHz OSCILLOSCOPES

### 7600 Series

- DC to 100 MHz Bandwidth
- 3.5 ns Rise Time
- 5 ns/Div Fastest Calibrator Sweep Rate
- Requires only 5.25 inches of Rackmount Space

### 7603 General Purpose

- Greater than 260 cm/s Writing Speed With Optional CRT
- CRT Readout

### NEW 7623B CRT Storage

- Able to Capture and Store Transients and Low Repetition Rate Signals
- 1000 cm/μs Stored Writing Speed
- Multimode Storage

### ORDERING INFORMATION

**7603/R7603 OSCILLOSCOPE**  
7603 Oscilloscope \$5,625

Includes:  
Clear CRT filter (337-1700-04),  
blue CRT filter (337-1700-01), 20-in.  
two-pin-to-BNC cable (175-1178-00),  
Operator Manual (070-1310-00),  
Service Manual (070-1429-00).

**R7603 – Rackmount**  
Oscilloscope \$6,610

Includes: Same as 7603, plus a  
rackmounting hardware kit  
(016-0099-00).

**Opt. 03 – EMC Modification.** +\$500

**Opt. 04 – High-Brightness**  
8 x 10-cm CRT Display.  
GH (P31) Phosphor.

7603 \$625

R7603 \$600

**Opt. 08 (7603) – Protective**  
Panel Cover. +\$150

**Opt. 20 (R7603) – IEEE Standard**  
488 Interface for the 7020 only. +\$150

**7623B/R7623B CRT-STORAGE**  
7623B CRT-Storage  
Oscilloscope \$12,350

Includes: 20-in., two-pin-  
to-BNC cable (175-1178-00),  
green CRT filter (378-0625-08),  
power cord (161-0066-00),  
Instruction Manual (070-1767-00),  
Operator Manual (070-1766-00).

**R7623B – Rackmount**  
Oscilloscope \$12,200

Includes: Same as 7623B.

**Opt. 03 – EMC Modification.** +\$500

**Opt. 08 – Protective Panel Cover.** +\$150

### CONVERSION KITS

**CRT Readout –**  
Order 040-0748-06 \$880

**EMC Modification –**  
Order 040-0663-01 \$585

**Rackmount Order 040-0678-01** \$475

**Power Supply – To light plug-in**  
pushbuttons. Order 040-0686-01 \$110

### INTERNATIONAL POWER PLUG OPTIONS

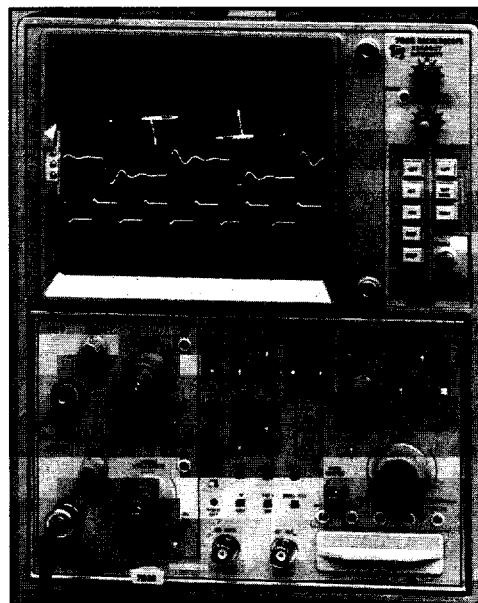
**Opt. A1-A5 Available** NC  
See page 374.

### ACCESSORIES

**Recommended Cameras –** See page 70.

**Recommended Carts –** See page 306.

**Recommended Probes –** See page 70.



### 7603/R7603 OSCILLOSCOPES

The 7603 and R7603 Oscilloscopes are general purpose 100 MHz, real-time oscilloscopes.

### CHARACTERISTICS

#### VERTICAL SYSTEM

**Channels** – Two left-most plug-in compartments.

**Bandwidth, Rise Time, and Deflection Factor** –  
Determined by the mainframe/plug-in used. See page 69.

**Display Modes** – Left, Alt, Add, Chop, Right.  
Chopped-mode repetition rate is ≈1 MHz.

**Delay Line** – Permits viewing leading edge of  
displayed waveform.

#### HORIZONTAL SYSTEM

**Channels** – One right-most plug-in compartment.

**Bandwidth** – Dc to 2 MHz.

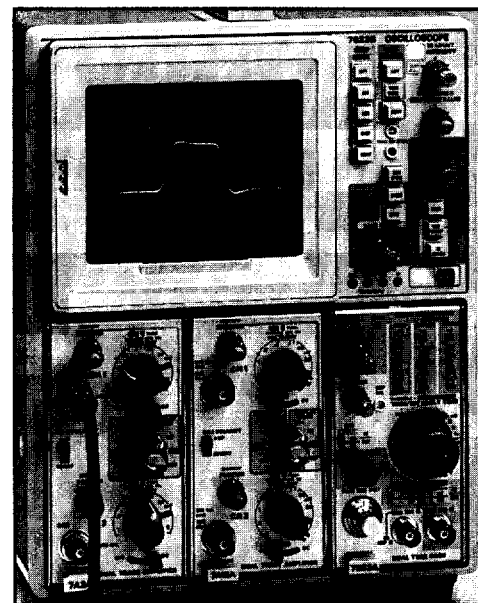
**Fastest Calibrated Sweep Rate** – 5 ns/div.

**X-Y Mode** – Phase shift is within 2° from dc to 35 kHz.

#### CRT AND DISPLAY FEATURES

**CRT** – Internal 8 x 10 division (1.22 cm/div) graticule  
with variable illumination.

**Option 04, High-Brightness CRT With Reduced**  
**Area** – Internal 8 x 10 cm graticule with variable  
illumination.



### 7623B STORAGE OSCILLOSCOPE

The 7623B Storage Oscilloscope provides 2200 div/μs  
(1000 cm/μs) stored writing speed and 100 MHz  
bandwidth. The instrument has three display modes and  
four storage modes. The maximum writing speed of  
1000 cm/μs is achieved in reduced-scan mode. Available  
for rackmounting as R7623B.

### CHARACTERISTICS

#### VERTICAL SYSTEM

**Channels** – Two left-most plug-in compartments for  
7000 Series plug-ins.

**Bandwidth, Rise Time, and Deflection Factor** –  
Determined by the mainframe and plug-in used. See  
page 69.

**Display Modes** – Left, Alt, Add, Chop, Right.  
Chopped-mode repetition rate is ≈1 MHz.

**Delay Line** – Permits viewing leading edge of  
displayed waveform.

#### HORIZONTAL SYSTEM

**Channel** – One plug-in compartment (right-most).  
Compatible with all 7000 Series plug-ins.

**Bandwidth** – Dc to at least 2 MHz.

**Fastest Calibrated Sweep Rate** – 5 ns/div.

#### CRT AND DISPLAY FEATURES

**CRT** – Internal 8 x 10 division graticule with variable  
illumination. RN has additional graticule for the reduced-  
scan mode.

**CRT Display Modes** – Nonstore, Bistable, Variable  
Persistence, Fast Bistable, Fast Variable Persistence.  
Reduced scan may be selected in all display modes.