



TS12-10B 10 Bit Series of NTSC Test Signal Generators

- 10 bit digital video test signal generation exceeding the **RS-250C Short-haul** specification.
- 12 NTSC video test signal including 5 MHz Line Sweep, NTC-7 Composite, NTC-7 Combination, Multiburst, Multipulse and (SIN X)/X.
- **95 to 100 IRE RAMP** to measure Signal-to-Noise (S/N) and Signal-to-Quantizing Noise (S/Q) in digital video systems as recommended by **ANSI standard T1Q1.5/91-205R2**. Ideal for **Digital Video Fiber Optics** and **DS-3 Telephone Compressed Video** systems. Option -RAMP
- **Vertical interval test signals (VITS)**, NTC-7 Composite and NTC-7 Combination, **VM700A™ compatible**. Option -VITS
- Loop-through of external video and stereo audio.
- **Automatic By-pass** of external video and stereo audio. When using the Automatic By-pass feature external video and stereo audio are looped through the device. If the external video is interrupted or lost, a video test signal, character ID and stereo tone are switched onto the line automatically. Option -AB
- **16 message, field programmable character generator**. Each message is 32 characters and is retained in a battery-backed RAM for up to 10 years. Option -M
- Insertion of a vertical interval character ID into external video.
- Stereo audio tone, 3 frequencies, XLR or quick release screw terminal connectors.
- Lip-sync, audio and video synchronizing signal.
- 2 outputs, test signal output and **Black Burst** output.
- **12 hour DC operations with 4 AA batteries**, external 6-20 VDC or 115VAC with external wall-mount supply for the **TS12-10B only**. **115 and 230 VAC** operation for the **TS12-10B-RM only**.
- **Automatically maintain and trouble shoot** video and audio circuits to RS-250C specifications.
- Ideal for Digital and Analog Fiber Optics, Distance Learning, Microwave, Cable TV, Broadcast TV and ENG.



In the USA and Canada call **1-(800)-4TV-TEST**
 191 Forest Avenue, Locust Valley, NY 11560-2132 USA
 1-(800)-488-8378, (516)-671-7278, FAX (516)-671-3362

E-Mail: sales@multidyne.com
Web Site: www.multidyne.com

VM700A is a registered trademark of Tektronix Inc.

TS12-10B STANDARD TEST SIGNAL SET

12 Transmission and Alignment Test Signals: SMPTE Color Bars, Cross Hatch, Red Field, (SIN X)/X, NTC-7 Composite, Gated Pulse and Bar, Modulated Stair Step, 5 MHz Line Sweep, NTC-7 Combination, Multipulse, FCC Multiburst and a matrix of Color Bars, Multiburst and NTC-7 Composite.

TS12-10B-RM STANDARD TEST SIGNAL SET

12 Transmission and Alignment Test Signals: SMPTE Color Bars, Cross Hatch, Red Field, FCC Multiburst, NTC-7 Combination, NTC-7 Composite, 5 MHz Line Sweep, Multipulse, Modulated Stair Step, Black Burst, (SIN X)/X and a matrix of Color Bars, Multiburst and NTC-7 Composite.



TS12-10B and TS12-10B-RM Rear View

SPECIFICATIONS

Conforms to the RS-170A specification.

Exceeds the RS-250C Short-haul specification.

Video output impedance	75 Ohms
Differential gain	< +/- 0.25 %
Differential phase	< +/- 0.25 degrees
Chrominance to luminance gain	< +/- 0.25 %
Chrominance to luminance delay.....	< +/- 2.5 n sec.
Luminance amplitude accuracy	< +/- 0.25 %
Frequency response to 5 MHz.....	< +/- 0.25 %
Ringing	< +/- 0.5 %
Tilt.....	< +/- 0.1 %
Signal to noise.....	< -84 dB
Vertical interval test signals (VITS)	NTC-7 Composite Line 18 Fields 1,2; NTC-7 Combination Line 17 Field 1
Character generator, user-programmable	32 characters, 16 messages.
Character generator message retention	up to 10 years, lithium battery-backed RAM
Vertical interval character ID.....	16 character insertion into ext. video.
Automatic by-pass, loss of video detection.....	sync recognition
Audio output impedance, balanced.....	50 Ohms
Tone frequency	400 Hz, 1 KHz, 8 KHz
Audio output level, adjustable	-60 dBu to +10 dBu
Right audio channel ID.....	0.5 Hz click
Distortion	< 0.05%
DC input voltage range, TS12-10B only	6 - 20 VDC
Power dissipation	1.2 Watts, max.
Battery operation, 4 AA batteries, TS12-10B only	up to 12 hours
AC operation, TS12-10B only	wall-mount AC supply, included
AC operation, TS12-10B-RM only	115 or 230 VAC
Dimensions, TS12-10B	6 7/8" x 5 3/4" x 1 3/4"
Dimensions, TS12-10B-RM	8" x 19" x 1 3/4"

Ordering Information:

- **Model TS12-10B Handheld 10 Bit NTSC Test Signal Generator** with 12 NTSC video test signals, 16 message user-programmable character generator, black burst output and 3 frequencies of stereo audio tone.
- **Model TS12-10B-RM Rack-mounted 10 Bit NTSC Test Signal Generator** with 12 NTSC video test signals, black burst output and 3 frequencies of stereo audio tone.
- **Options:** **-AB** Automatic By-pass with loop-through of external video and stereo audio, TS12-10B-RM only. **-M** 16 message, user-programmable, character generator with vertical interval character ID of external video, TS12-10B-RM only, **-VITS** Vertical Interval Test Signals. **-RAMP** 95 to 100 IRE RAMP Test Signal. **-STAIR** 5 Step Staircase.



In the USA and Canada call **1-(800)-4TV-TEST**
191 Forest Avenue, Locust Valley, NY 11560-2132 USA
1-(800)-488-8378, (516)-671-7278, FAX (516)-671-3362

E-Mail: sales@multidyne.com
Web Site: www.multidyne.com