1033 Teletext

Calibrated Distortion Unit

Key features

- **Versions: WST 525 and 625, Antiope 625 and NABTS 525**
- **8 Different data signals**
- **Adjustable interference sources**
- **Simple controls and clear displays**

The worldwide standard for testing teletext decoders and networking equipment

The 1033 Teletext Calibrated Distortion Unit has been designed specifically for developers of teletext decoders and for production testing of teletext-equipped TVs and VCRs.

As a self-contained unit, it provides the independent test criteria and standards against which manufacturers and developers can evaluate the data-slicing performance of their teletext products. With its unmatched track record for dependable results and ease-of-use, the 1033 has become the worldwide reference standard teletext test instrument.

Testing facilities

With a choice of four different versions, up to 8 different data signals available and 3 adjustable interference sources, users have all the necessary combinations of tests for teletext equipment.

All the major functions are controlled by easy-to-use rotary switches and push buttons on the front panel and are designed to simulate real-life environments. The interference sources are for:

Controlled reflections. The eye height value is continuously shown on the LCD display. Accurate push button control of the data eye height is achieved by using the 'Delphi' principle using push buttons. (See IBA Technical Review No 15). The unit has three pre-set buttons giving outputs of 45%, 60% and maximum.

White noise. Noise can be introduced by calibrated or variable amounts to the signal to assess equipment performance rapidly and accurately.

Co-channel Sinewave. The unit also allows users to introduce high-frequency and low-frequency simulated co-channel interference in calibrated or variable amounts.

The 1033 provides a video cross hatch waveform where the vertical component is equal to a single teletext pulse. This makes possible pulse-and-bar type measurements. The position of data on the line can be set in increments of one teletext clock pulse.

Switches on the rear panel enable semi-permanent settings such as output data line selection, data position, interlaced or non-interlaced syncs and VBI or full field mode.

Specifications

Video output/amplitude	1 V pk-pk or 2.5 V pk-pk interlaced or non-interlaced sync. 625 line versions: 700 mV ± 1%. 525 line versions: 714 mV ± 1%
White noise	Bandwidth 10 KHz - 5 MHz ± 1 dB. Calibrated position set to -27 dB (700 mV) variable -14 dB to -60 dB.
Simulated Co-channe	/Unlocked Sinewave of 5/3 or 10/3 line frequency (selectable). Calibrated position set to -39 dB (700 mV), variable -14 dB to -60 dB.
Data lines inserted (VBI Mode)	625 line versions: up to 16 in range 7 to 22 & 320 to 335 525 line versions: up to 10 in range 10 to 20 & 273 to 283
Data level	WST 625 line version: Calibrated position set to 462 mV ± 1% WST 525 line version: Calibrated position set to 500 mV ± 1% NABTS version: Calibrated position set to 70 ± 2 IRE Above versions variable over the range <312 mV to >600 mV. Antiope version: Calibrated position set to 700 mV ± 1%, variable over the range 400 mV to 800 mV.
Data bit rate	625 line WST version: 6.9375 MHz ± 0.0025% 525 line WST versions: 5.727272 MHz ± 0.0025% 625 line Antiope version: 6.203125 MHz ± 0.0025%
Data eye height	625 line WST version: 0% ± 0.5% to 98.5% in 0.1% increments
Eye height reduction method	One negative echo followed by one positive echo with a 7T and 14T delay respectively. (T=1 Teletext data bit period)
Eye height display outputs	X - Sinewave of data clock frequency ÷ 4. 5 V pk-pk 75 Ω nominal, BNC socket. Z - Blanking signal positive or negative sense (selectable). 5 V pk-pk 75 Ω nominal, BNC socket.
Auxiliary input (inverting)	1 V pk-pk 75 Ω max, BNC socket
Auxiliary outputs	Data, Data lines, Gated clock, Sync, Video blanking TTL level, 2 mm socket. Logic ground 0 V, 2 mm socket.
Dimensions	2U high, 19" rack or desk mounting
Power supply	99-132 V AC 50/60 Hz or 198-264 V AC 50/60 Hz (Please specify when ordering)

Gatwick House,
Peeks Brook Lane, Horley,
Surrey, RH6 9ST
United Kingdom.

For further information visit our

Website *www.sysmedia.com*

email *sales@sysmedia.com*

or telephone us on +44 (0)1293 814 200