

TX20BX

TELEVISION INSTRUMENTS

VIDEO SIGNAL ANALYZER



General

The TX20BX video signal analyzer provides fast and highly accurate measurements of all the levels which must be monitored within the analog PAL and NTSC systems. This unit is suitable for use with the three major analog systems of composite video (VBS), component video R-Y, B-Y, Y, and component Y+S/C.

Measurements of amplitude for luminance, chrominance, burst and syncs are instantaneously available at the touch of a switch, and are highly accurate. In addition to measurements of amplitude, the TX20BX can provide rapid measurement of burst, phase, DG, DP, noise, and optionally, pulse and bar.

The TX20BX's comprehensive facilities make this unit extremely convenient as a performance measurement device installed in broadcast television networks, and also as a quality assessment device in the production of cameras, VCRs, and video switchers.

Features

- Automatic measurement of NTSC/PAL systems characteristics.
- Both composite and component input capability.
- All signal amplitude measurements instantly available and more accurate than conventional measurement techniques.
- Automatic sequence measurement mode controls the test signal generator output signal and level via parallel ports.
- Remote start signal for GO/NG judgment function in the measurement of VCR playback signals.
- Manual measurements made simple by means of a dedicated push-button for each parameter.
- Perfect instrument for design, maintenance, manufacturing and broadcast engineers.
- Applications range from fully automated production line measurements, broadcast television lines room monitoring, design laboratories, and maintenance workshops.

Specifications

● Measurement items

Luminance level
Luminance S/N ratio
Chrominance level
Y/C delay
Sync level
Burst phase (only PAL signals)
Burst level
Chrominance phase
Luminance + sync level
DG/DP signal
Chrominance/Luminance ratio
Chrominance/burst ratio
Frequency response
Pulse and bar (option)

● Input signals

• Television systems

NTSC - M, PAL - B/G, D/K

• Video format

Composite: VBS

Component: GBR (G+sync)/ Y+S, C/ Y, B-Y, R-Y

• Input impedance

VBS front-panel input

BNC, 75 Ω

VBS rear-panel input

BNC, 75 Ω or high

C input

BNC, 75 Ω or high

Y and G inputs

BNC, 75 Ω or high

B-Y and B inputs

BNC, 75 Ω or high

R-Y and R inputs

BNC, 75 Ω or high

EXT. sync input

BNC, high: 4 Vp-p, negative polarity, 75 Ω
VBS: 1 Vp-p

● Monitor outputs

• Output format

White signal superimposed on Y signal of the input signals:

Y signal of VBS signal

G signal of GBR signals

Y signal of Y+S, C signals

Y signal of Y, B-Y, R-Y signals

• Output impedance 75 Ω ±3%

Specifications

● General Specifications

Power supply AC 100 to 230 V \pm 10%, 50/60 Hz

Power consumption

Approx. 50 VA

Operating temperature range

0°C to 40°C

Relative humidity 25% to 90% RH (non-dewing)

Dimensions 426 (W) x 99 (H) x 460 (D) mm

Weight Approx. 12 kg

