

# BTSC-100

## AURAL BTSC DEMODULATOR



The BTSC-100 is an aural TV demodulator that decodes a 4.5 MHz or aural composite input into balanced left and right BTSC stereo audio and Secondary Audio Program (SAP) outputs. When the 4.5 MHz input is used, the unit will provide aural composite in addition to the standard audio outputs. The BTSC-100 is designed for use in applications where the existing audio is only available in 4.5 MHz or aural composite formats, and where fully demodulated stereo and SAP audio is required. These types of situations include local ad insertions, announcements and alerts. The small size of the BTSC-100 (only 1/3 RU wide) means the unit can be put almost anywhere. Using the optional DAT-1 rackmount tray, up to three BTSC- 100 units can be mounted in a single rack unit of space.

### FEATURES

- Simple to install
- Minimum space required
- Flexible 4.5 MHz or Composite Aural inputs
- BTSC Stereo and SAP demodulated outputs
- Composite Aural output from 4.5 MHz input
- Standards available: NTSC



### SPECIFICATIONS

Specifications and designs are subject to change without notice.

#### 4.5 MHz Aural Carrier Input

Level	0 to +50 dBmV
Connector	"F" 75 ohms, female

#### Aural Composite Input

Level	0.5 V pk-pk nominal
Connector	BNC, female (shared with composite output)

#### Audio Output

Left, Right, Sap Audio Connector	2-piece terminal strip
Configuration	Balanced, w/ground
Level	-10 to +10 dBm, into 600 ohms load

**Aural Composite Output (Only available with 4.5 MHz aural carrier input)**

Level	10 mV/kHz
Connector	BNC, female (shared with composite input)

**Characteristics**

Stereo Separation	>20 dB at 300 Hz and 3 kHz
Signal To Noise Ratio	>53 dB
Total Harmonic Distortion	<2%
Frequency Response	50 Hz to 12 kHz, $\pm 3$ dB stereo, 30% modulation 50 Hz to 8 kHz, $\pm 3$ dB stereo, 100% modulation 50 Hz to 8 kHz, $\pm 3$ dB SAP, 30% modulation

**Front Panel**

Power Indicator LED  
Stereo and SAP presence indicator  
LEDs  
Stereo Level Adjust  
Stereo Balance Adjust  
SAP Level Adjust

**Back Panel**

Power cord  
Fuse  
4.5 MHz input  
Composite audio input/output  
Audio output connector

**Power Requirements**

Input	120 VAC $\pm 10\%$
Fuse	100 mA
Consumption	12 VA, maximum

**Environmental**

Operating Temperature	0° to 50°C
Storage Temperature	-40° to 75°C
Humidity	90% maximum

**Mechanical**

Dimensions	Height 1.74" (4.4 cm) Width 5.25" (13.3 cm) Depth 9.9" (25.2 cm)
------------	--

Weight 2.9 lb (1.3 kg)

**Standard Accessories**

Operation & Service Manual

**Options**

DAT -1 Rackmount frame. Accommodates any 3 Videotek self-contained modular units, including video and audio distribution and switching