Showman 1000 Multi-standard TV Demodulator

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>AUDIO</th>
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<tbody>
<tr>
<td>PAL I</td>
<td>FM Mono</td>
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<tr>
<td>PAL B/G</td>
<td>FM Mono + NICAM</td>
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<tr>
<td>PAL D/K</td>
<td>FM Mono + NICAM</td>
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<tr>
<td>PAL M/N</td>
<td>FM Mono + BTSC + SAP</td>
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<tr>
<td>SECAM D/K</td>
<td>FM Mono + NICAM</td>
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<tr>
<td>SECAM L</td>
<td>FM Mono + NICAM</td>
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<tr>
<td>PAL B/G</td>
<td>FM Stereo</td>
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<td>FM Stereo + NICAM</td>
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<tr>
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<td>FM Mono</td>
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<td>FM Mono</td>
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<td>SECAM L</td>
<td>AM Mono</td>
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<tr>
<td>NTSC M/N</td>
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<td>NTSC M/N</td>
<td>FM Mono + BTSC Stereo</td>
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The Showman 1000 Off Air Receiver from dB Broadcast is a multi-standard analogue TV demodulator for professional broadcast applications and is capable of receiving RF signals from most terrestrial or cable analogue broadcast TV standards.

It is the latest in a line of well established Showman products and can be used with PAL, SECAM and NTSC television standards, allowing for operation across the world.

Features:

- Over 20 pre-installed country/region tables
- Multi-standard - B/G, I, D/K, L, M/N
- Video systems - PAL, SECAM, NTSC
- Audio systems - NICAM, FM-Stereo (A2 & EIA-j) BTSC
- Direct keying of frequency
- 99 program memory
- Headphone socket on front panel
- Dual composite video outputs
- Dual audio outputs
- Adjustable audio, video and chrominance levels
- RS232 Port for external control and software upgrades
- LCD screen display - 2 Line x 20 Characters

Showman multi-standard analogue TV demodulator including IF input and output capability along with monitoring and alarm functions with a Status Log facility that can time and date stamp various alarm events for later analysis. Provides simultaneous outputs of both Stereo and SAP when receiving BTSC audio (Standard M/N). The IF input and IF output is on 38.9MHz vision carrier frequency for all standards.

Technical specifications:

RF Input
Input Connector: BNC type female, 75Ω
Tuning Range: PAL 45.25MHz to 863.25MHz or NTSC 45.25MHz to 801.25MHz
Tuning Step Size: 250KHz
Input Level: 0.2mV to 10mV min/max (46dBμV to +80dBμV)

IF Input
Connector: BNC Type connector
Impedance: 50Ω
Frequency: PAL 38.9MHz

IF Output
Connector: BNC Type connector
Impedance: 50Ω
Frequency: PAL 38.9MHz

Video
Connector: 750 BNC Type (2 off)
Output Level: 1Vpp into 75Ω
Differential Phase: < ±1.5º (typical for RF input >6dBmV)
Differential Gain: < 3.5% pp (typical for RF input > 6dBmV)
Frequency Response: 100KHz to 4.43MHz ± 1dB for I, B/G, D/K 5-35 ºC ambient
100KHz to 3.58MHz ± 1dB for M/N 5-35 ºC ambient
Group Delay (post Correction off): 100KHz to 4.43MHz ± 60ns (35ns typical) for I, B/G, D/K
100KHz to 3.58MHz ± 50ns (35ns typical) M/N

Audio
Outputs: 2 pairs (Audio 1 and Audio 2)
User configurable
Output Impedance: Low (electronically balanced)
User configurable

As a result of continual product development, specifications are subject to change without notice.