

# MULTIPLE FREQUENCY SIGNAL GENERATOR

## MODEL ASX-16C

### REMOTE-CONTROLLED SIGNAL GENERATOR WITH REMOTE FREQUENCY TRIM AND BASE LEVELLING



The **Model ASX-16C** is an improved version of the Model ASX-16B using enhanced technology. While retaining its *Remote Frequency Trim* feature, the Model ASX-16C also provides carriers that can be adjusted over a linear range of 15 dB with 0.025 dB resolution. This model provides clean, modulated and unmodulated, crystal-controlled, amplitude-variable outputs, up to +57 dBmV per channel. All operations are controlled remotely, using the IEEE-488 (GPIB). An internal frequency counter option is available which simplifies the setting and checking of operating frequencies.

The **Model ASX-16C** is software-compatible with the Model ASX-16B.

Different frequency plans such as **NTSC, PAL I, PAL B/G, CENELEC**, etc. may be *combined in a single generator* to allow instant switching between the plans through software control. All of the plan configurations will exhibit the same low distortion specifications of the ASX-16C single frequency plan configurations.

### SPECIFICATIONS

**Frequencies:**

Any frequency from 5 to 1000 MHz. ([Standard freq list](#))

**Power Output:**

(Guaranteed Minimum Ratings)

+57 dBmV max. per channel when combining 32 channels.  
 +54 dBmV max. per channel when combining 64 channels.  
 +50 dBmV max. per channel when combining 128 channels  
 +46 dBmV max. per channel when combining 160 channels.

**Remote Controls:**

**Carrier** (each channel)

**Modulation** (ea. channel)

On, Off and adjustable over 15 dB in monotonic 0.025 dB increments.  
 CW or 100%.

<b>Spurious Content:</b>	Cross-modulation, Composite Triple Beat, Discrete Second Order, and Discrete Third Order guaranteed better than 100 dB down.
<b>Output Noise Level</b> Off Channel noise level	Thermal
<b>Carrier Phase Noise</b>	-110 dBC/Hz at 10 Khz offset.
<b>Frequency Stability:</b>	Carriers: 0.0015%, Modulation: 0.003%.
<b>Output Impedance to connector type:</b>	50 Ohm BNC, N or SMA. or 75 Ohm (optional) F, BNC, or N.
<b>Output:</b>	Step attenuators simultaneously reduce all channels up to 82.5 dB in 0.5 dB steps.
<b>Output Frequency Adjust:</b>	Each channel adjustable +/- 10 parts per million, resolution < 1 ppm.
<b>Primary Power:</b>	110-120 Volts, 50-60 Hz. Other voltages and frequencies are available.



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