

## Rack Mountable High and Standard Definition SDI and Composite Video and Audio Signal Generator



The DigiGen MultiGen is a simple to use multiformat video generator for use in control rooms and facilities where racking is available. The unit includes HD SDI, SD SDI and composite video generation with embedded audio and either AES/EBU or analog audio outputs. 16 video test signals are available for each of the outputs in digital this can be 525 or 625 and in analog either NTSC or PAL, including pathological, overlaid circles, moving pattern path activity signal, CRC codes, audio group selection audio line up tones, with or without an ident and a 16 character alpha/numeric ident which is scrollable.

HD SDI Standards covered:

SMPTE 274M:

1080 lines 60 Hz Interlaced (30 Hz PSF)  
1080 lines 59.94 interlaced (29.97 Hz PSF)  
1080 lines 30 Hz Progressive  
1080 lines 29.97 Progressive  
1080 lines 48 Hz Interlaced (24 Hz PSF)  
1080 lines 47.96 interlaced (23.98 Hz PSF SONY )  
1080 lines 24 Hz Progressive  
1080 lines 23.98 Progressive  
1080 lines 50 Hz Interlaced (25 Hz PSF)  
1080 lines 25 Hz Progressive

SMPTE 296M:

720 lines 60 Hz Progressive  
720 lines 59.94 Hz Progressive  
720 lines 50 HZ Progressive

*This product contains proprietary patented designs.*

### Features and Functions

- Multi Standard HD SDI, SD SDI, and Composite.
- Embedded Audio.
- AES/EBU or Single. channel Analog Audio.
- 1U high full width rack case.
- FF CRC, pathological digital test signals.
- Y, C, both, text, circle, moving pattern signal continuity test.
- 16 test patterns: 100% Bars, 75% Bars, Split Bars, Bowtie, Sweep, Pluge, Multi, Pulse & Bar, Modulated Steps, White Screen, Red Screen, Convergence, Split equaliser/pll test pattern, Ramp, Limit Ramp, Optional pattern\*.
- User program 16 character alphanumeric ident scrollable.
- Audio selectable on all groups 1 thru 4.
- 110 –240V mains powered IEC connector.

## **TECHNICAL SPECIFICATION**

### **OUTPUTS**

HD Serial digital 1x BNC connectors. Output impedance 75 ohms. SMPTE 292, serial component. 800mV pp Full 10 bit pattern generation.  
Embedded audio tone is a 1KHz asynchronous sine wave at a level of -18dBFS.  
SD Serial digital BNC connector. Output impedance 75 ohms. SMPTE 259M, ITU-R BT.601/656 serial component. 800mV pp Full 10 bit pattern generation.  
Addition of CRC checksum word.  
Addition of embedded tone at -18db.  
Composite BNC connectors. Output impedance 75 ohms. 1 volt p/p +/- 1% PAL, NTSC or PALM from 9 bit dac.  
Differential gain and phase +/- 1% and +/- 1 deg.  
Sch phase 0 +/- 5 deg.  
Audio 3 pin xlr plug.  
Analog: 1KHz tone 0db to +8db balanced to 600 ohms Thd <0.5%.  
Digital: AES/EBU encoded 1KHz tone, balanced output to 110 ohms.  
Frequency The crystal master oscillator is accurate to better than +/- 15ppm.

### **POWER**

Current draw is 600mA.  
Mains supply 240-110VAC +/-20% 50/60Hz 10VA max.

### **ENVIRONMENT**

Indoor use, 5 to 45 deg.C. ambient to 2,000m.  
Max humidity 80% to 31 deg.C decreasing to 50% at 40 deg.C.  
Overvoltage category 2. Pollution degree 1.

### **PHYSICAL**

**DIMENSIONS:** - 490mm x 250mm x 45mm.

**WEIGHT:** - 3Kg.

**WARRANTY:** - 1 Year.

Extendable free on registration: - To 2 Years  
By using the service area of our web site  
<http://www.hamlet.co.uk/support/warranty/>

### **ORDERING INFORMATION**

**DIGIGEN** Multigen

Rack mountable HD SDI, SD SDI and composite video with 16 test signals and embedded audio generator.

**\* Features available as options (see options list below)**

### **OPTIONS**

Digigen - CP

Customised pattern

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Hamlet products are Manufactured to ISO9001.2000 and ISO14001 specification.  
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10/04/2012

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