

## Hand Held Portable High Definition SDI Video and Audio Signal Generator



The Hamlet Protean Axiom is a small high definition SDI video and audio generator. Using leading edge technology Hamlet has produced a compact, low power; hand held, HD SDI video and embedded audio generator, 13 standards, and 16 fully compliant SMPTE 292M SD interface test signals. Plus 64 character alphanumeric generator, with moving ident.

### Features and Functions

- 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\*.
- Individual enabling of Y and C components.
- Embedded audio on any of the four groups.
- User defined 64 character ident .
- Selection of tone, silence or no audio packets.
- Outputs on Ch1, Ch2 or both.
- Selection of channel ident.
- All settings stored on power down.
- Dimensions: 160mm x 95mm x 36mm .
- External power: 6Vdc @ 900mA.
- Internal batteries: 1hr between charges.

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

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

*This product contains proprietary patented designs.*

# TECHNICAL SPECIFICATION

## OUTPUTS

Serial digital 2 x 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.

## POWER

External 6Vdc +/-0.5V regulated @ 0.9A.  
Current draw is 1A if charging as well. 100mA if charging only.  
Charging time 16 hours max.  
2.1mm power connector, centre negative.  
Mains supply adapter 220/110VAC +/-20% 50/60Hz 10VA max.  
Internal 600mA hour NiMh batteries with integral charger.

## 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:** - 9 x 16 x 3.5 cm.

**WEIGHT:** - 500g.

**WARRANTY:** - 1 Year.

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

## ORDERING INFORMATION

### Protean Axiom

High Definition (HDTV) hand held signal generator Includes 13 x HDTV, SMPTE 292M standards with 16 x test patterns, "Real time" moving MP signal path test embedded audio & 64 Character Alpha / Num Ident.

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

### Options

PROT - CP	Customised patterns
PCC-1	Universal carry case

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Hamlet products are Manufactured to ISO9001.2000 and ISO14001 specification.  
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