

## SDI / Composite Test Pattern Generator with Crash Switching

### FEATURES

- SDI or Composite PAL/NTSC operation.
- Choice of 8 banners overlaid or keyed onto SDI input or Test Pattern output.
- Choice of 16 Test Patterns on loss of video input.

### GENERAL

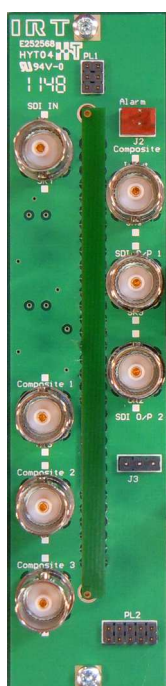
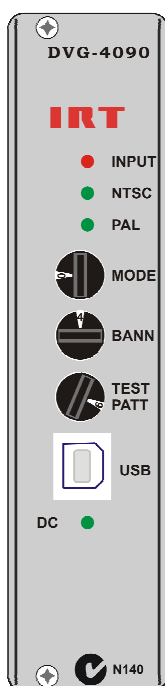
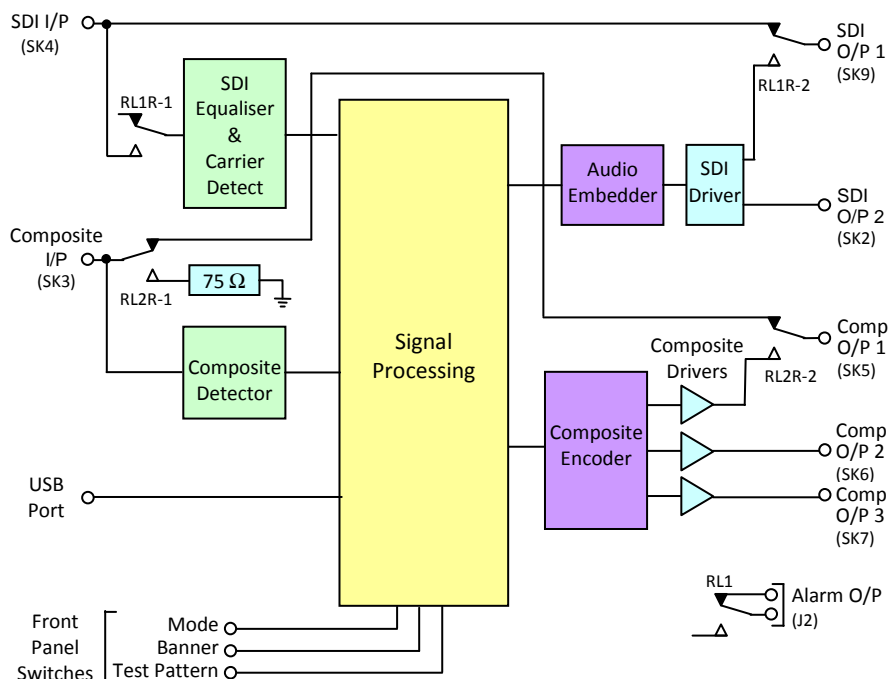
The DVG-4090 acts as an analogue / digital video crash switcher and test pattern generator. On loss of video input, output is automatically switched to a choice of 16 test patterns.

8 custom built banners containing text or pictures, such as station logos, and 2 full screen pictures can be downloaded by supplied software. Single banners can be overlaid or keyed onto the test pattern output in the lower section of the video picture. In the case of an SDI input, these banners can also be overlaid onto the existing stream.

A countdown banner and audio test signal insertion is also available for link identification purposes.

The DVG-4090 is designed to fit IRT's standard Eurocard frames as well as IRT's 4000 series frame for use with IRT's SNMP system and may be used alongside any other of IRT's analogue or digital Eurocards.

**BLOCK DIAGRAM DVG-4090 SIGNAL PATH**



## TECHNICAL SPECIFICATIONS

### Input - Digital:

Connector	75Ω BNC.
Format	270 Mb/s SDI (SMPTE 259M), 625 or 525 line (link selectable).
Equalisation	Automatic, better than 200 metres at 270 Mb/s for Belden 8281 or equivalent cable.

### Input - Analogue:

Connector	75Ω BNC.
Format	PAL or NTSC (link selectable).

### Outputs - Digital:

Number	2 x SDI (one with relay bypass when used with SDI input), 625 or 525 line (link selectable); 1 x SDI when used with analogue input link setting.
Connectors	75Ω BNC.
Format	Re-clocked 270 Mb/s SDI (SMPTE 259M).
Signal level	800 mV ±10%.

### Outputs - Analogue:

Number	3 x Composite (one with relay bypass when used with analogue composite input), PAL or NTSC (link selectable).
Connectors	75Ω BNC.

### Alarm Output:

Closed relay contacts on loss of input signal.

### Power requirements:

Voltage	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	< 4 VA.

### Other:

Temperature range	0 - 50° C ambient.
Mechanical	Suitable for mounting in IRT 19" rack chassis with input output and power connections on the rear panel.
Finish	Front panel Grey background, black lettering & red IRT logo.
	Rear assembly Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
Dimensions	6 HP x 3 U x 220 mm IRT Eurocard.