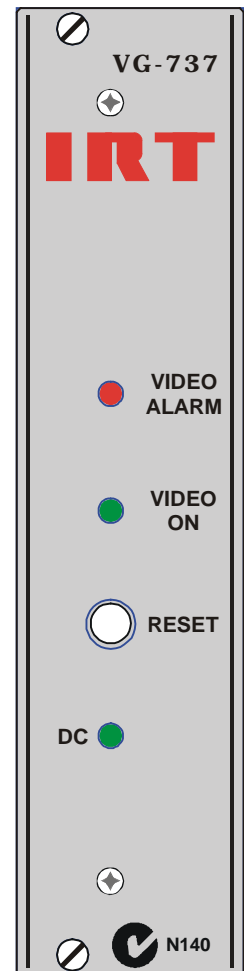


## Video Sync Loss Detector Type VG-737

### Features:

- **Differential loop through input does not effect other equipment.**
- **Good noise immunity.**
- **Selectable alarm on and off timing.**
- **Automatic, manual or remote reset.**
- **2 x Relay contact alarm outputs.**
- **Convenient Eurocard design.**



### General:

The VG-737 video detector is used to indicate the presence of a video signal by detecting the vertical sync component of a composite video signal. The detection circuitry used ensures that noise alone will not trigger the detector.

The video input is a high impedance bridging differential input circuit with the input common raised above ground, this allows the VG-737 input to bridge a signal cable without affecting common mode rejection circuitry that may be incorporated in the equipment terminating the cable.

The video signal level threshold at which the VG-737 switches is set by an internal control and may be adjusted for a signal level in the range 0.4 V to 0.7 Vp-p at the input.

The detector circuitry consists of a sync separator and vertical integrator, which triggers a dual mono stable circuit that allows the response time of the alarm

circuit to be set. The response time is set by means of DIP switches in the RC timing circuit and is adjustable from 1 to 32 seconds for the VIDEO FAIL time out and 1 to 8 seconds for the VIDEO ON response time, the adjustment being made in 1 second steps.

The alarm circuitry consists of a latching circuit triggered by the detector circuit, which drives a relay whose contacts are available at the rear panel of the VG-737.

The alarm circuit can be reset automatically upon return of the video signal or by a contact closure from the front panel or a remote circuit.

Visual indication of the state of the VG-737 detector and alarm circuits is provided by LED indicators on the front panel.

# VG-737 Technical Specifications

## Video:

Video input level	0.7 to 1 Vp-p composite video.
Input impedance	75 Ohm bridging loop input.
Return loss	>40 dB at 4.4 MHz.
Input connectors	BNC.

## Performance:

Detection threshold	Internal preset adjustment in the range 0.4 to 0.7 Volts p-p composite video.
Response time	1 - 32 seconds for VIDEO FAIL condition. 1 - 8 seconds for VIDEO ON condition. Timing adjustable in 1 second steps using a PCB mounted DIP switch assembly.

## Indicators & controls:

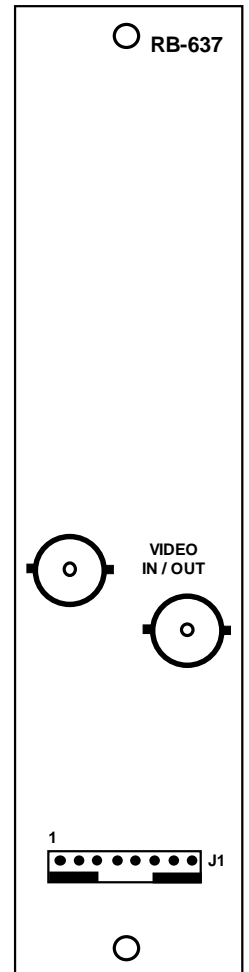
Visual indicators	VIDEO FAIL ALARM VIDEO PRESENT POWER
Control output	Relay circuits operated from alarm logic. Latching or auto-reset mode available. Make or break relay contacts available.
Control input	When operated in the LATCHING ALARM MODE internal logic alarm circuits can be reset by a front panel RESET pushbutton or by external 12V to 48V to a opto-isolator circuit used to isolate the internal logic circuit.
Control connector	8 pin 0.1 inch spaced socket strip with mating locking plug assembly.

## Power requirements:

Power consumption	28 Vac CT (14-0-14) or $\pm 16$ Vdc. 1.5 VA.
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## 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 Rear assembly
Dimensions	Grey enamel, silk-screened black lettering & red IRT logo
Supplied accessories	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals
Optional accessories	6 HP x 3 U x 220 mm IRT Eurocard RB-637 rear connector assembly with matching connectors for control input / alarm output. TME-6 module extender card



Due to our policy of continuing development, these specifications are subject to change without notice.

### Detailed specifications available from:

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