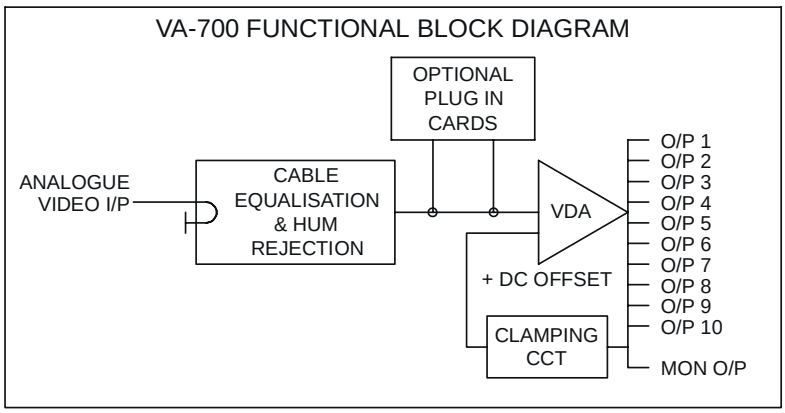
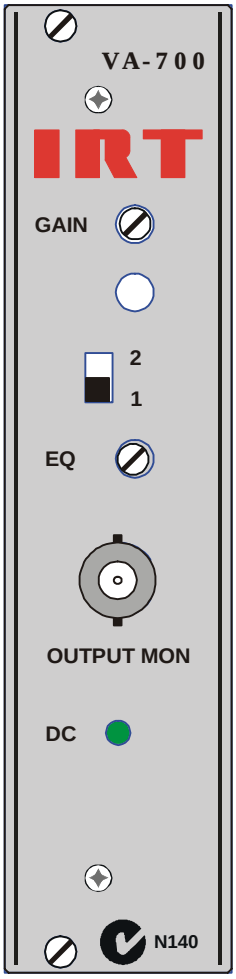
I R T Electronics Pty Ltd A.B.N. 35 000 832 575
26 Hotham Parade, ARTARMON N.S.W. 2064 AUSTRALIA
National: Phone: (02) 9439 3744 Fax: (02) 9439 7439
International: +61 2 9439 3744 +61 2 9439 7439
Email: sales@irtelectronics.com

Eurocard
Video Distribution Amplifier
Type VA-700





Features:

- **IRT Eurocard construction**
- **Loop through input**
- **Ten BNC outputs on rear**
- **>30 MHz bandwidth**
- **Front panel monitoring output**
- **Cable equalisation to 300 metres**
- **Various clamping options**
- **Longitudinal hum stripping**
- **Front panel EQ & gain adjustment**

General:

The VA-700 is a video distribution amplifier of modular Eurocard construction having facilities for cable equalisation, longitudinal hum reduction, and clamping.

The input is a bridging loop through type to facilitate connection to other equipment. Ten 75 Ω outputs are provided on the rear with an additional output on the front panel for ease of monitoring.

The input and output grounds are separated to provide rejection of longitudinally developed hum. The input is AC coupled and the output DC restored with options for no clamping or clamping to the internal or an external signal. The external clamping facility may be used to provide correct DC restoration in YUV & RGB signal situations.

The video gain may be varied by ± 3 dB from the front panel. Internal preset controls allow adjustment of the amplifier frequency response, optimisation of the longitudinal hum rejection, and stage output DC voltages.

Cable equalisation is provided for up to 300 metres of 75 Ω high quality cable with adjustment via the front panel.

The VA-700 may also be fitted with an optional sub-board for mounting of delay lines or filters. The DL-700 sub board also provides delay adjustment trim and additional compensating gain for losses in long delay lines *(only available whilst current stocks last)*.

The VA-700 may also be used as a pulse distribution amplifier. (Only 6 outputs may be used for 4 Vp-p)

The VA-700 is manufactured on an extended Eurocard board for mounting in IRT Eurocard frames.

VA-700 Technical Specifications

Input

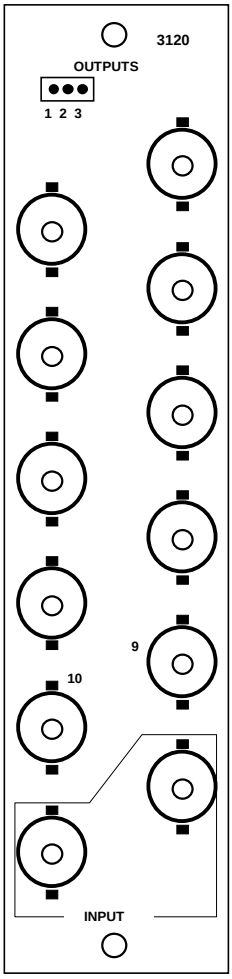
Type	Differential AC coupled.
Number	2.
Impedance	Looping.
Return loss	> 46 dB to 6 MHz.
Hum rejection	> 40 dB.
Maximum level	> 2 Vp-p (0 dB gain).

Outputs

Type	DC coupled.
Number	11 (Ten on rear and one on front panel).
Impedance	75 Ω source terminated.
Return loss	> 40 dB to 6 MHz.
Overload	3.0 Vp-p on 4.43 MHz sinewave. 2.5 Vp-p on pulse.
DC level	Adjustable to 0 V.

Performance

Gain		± 3 dB. Adjustable from front panel.
Frequency response		± 0.1 dB from 20 Hz to 20 MHz. ± 0.2 dB from 20 Hz to 30 MHz.
Differential gain		< 0.1% at 4.43 MHz (12.5% - 87.5% APL)
Differential phase		< 0.1° at 4.43 MHz (12.5% - 87.5% APL)
Noise (unweighted)		< -70 dB
Cross talk between modules		< -75 dB
Transit time		< 22° at 4.43 MHz.
Cable equalisation	Standard	Up to 300 m, adjustable from the front panel in two ranges as set by internal links. Set for Beldin YR23769 cable.



Power Requirements

28 Vac CT (14-0-14) or ±16 Vdc

Power consumption: 100 mA (all outputs loaded in 75 Ω).

Connectors

BNC

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 enamel, silk-screened 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
Optional accessories		DL-700 delay & filter sub-board (only available whilst stocks last). AVD-3120 Video sync loss detector sub-board (only available whilst stocks last).

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

Detailed specifications available from:

Manufacturer:

IRT Electronics Pty Ltd
26 Hotham Parade
ARTARMON
N.S.W. 2064 AUSTRALIA
Phone: +61 2 9439 3744
Fax: +61 2 9439 7439
Email: sales@irtelectronics.com

Local Agent:

IRT can be found on the Internet at:
http://www.irtelectronics.com