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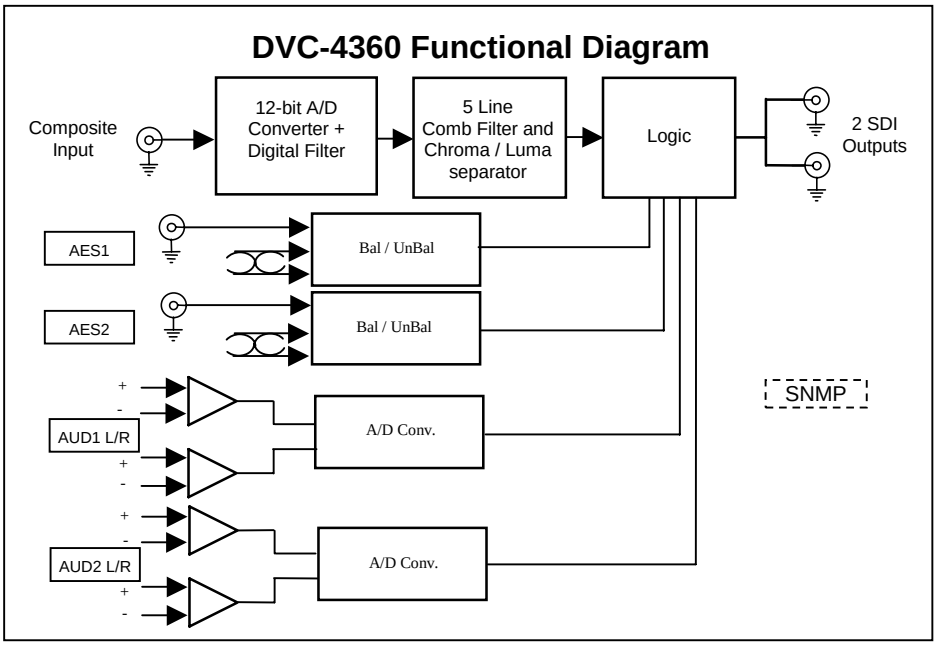
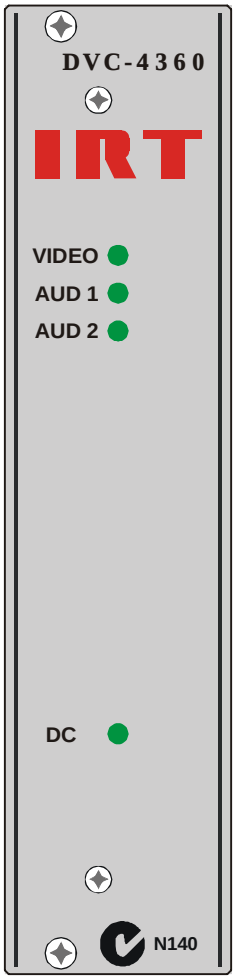
Composite to 270 Mb/s SDI

Type DVC-4360





Features:

- **Broadcast quality, full 12-bit video conversion.**
- **2 SDI 270 Mbit/s outputs.**
- **2 AES or 4 Analogue Audio Inputs.**
- **Group 1 – SMPTE 272M-A synchronous 48kHz audio insertion.**
- **PAL or NTSC operation with auto switching.**
- **Video input indicator on front panel.**

General:

The DVC-4360 is a high performance PAL / NTSC composite to 270 Mbit/s serial digital (SDI) video converter, complete with Group 1 analogue or AES audio insertion.

The DVC-4360 provides two SDI outputs.

Audio channel allocation and source selection is provided by links on the main board.

The DVC-4360 is designed to provide a broadcast quality composite to SDI conversion using the latest digital filtering techniques.

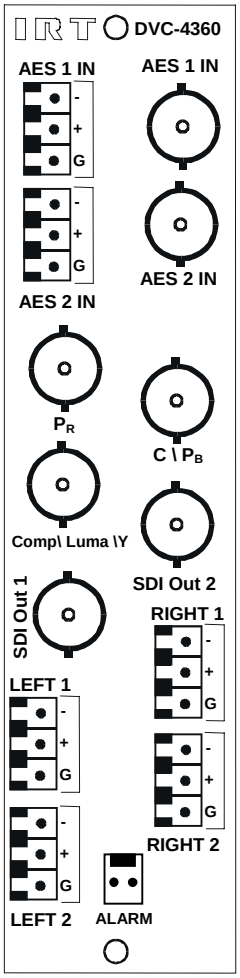
The composite input section, shown in the block diagram above, automatically detects the composite input standard (PAL or NTSC) and generates the appropriate 625 or 525 SDI format.

Link settings are provided for default output on signal loss. This is either blue or black in 625 or 525.

Full 12 bit video processing and 20-bit analogue to digital audio converters are used in order to assure a high quality SDI signals suitable for broadcast and production monitoring applications.

The DVC-4360 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.

DVC-4360 Technical specifications



Input – Analogue Video:

Connector	1 x BNC.
Formats	1Vp-p Composite
Impedance	75Ω

Input – Analogue Audio:

Connector	4 x Phoenix pluggable screw block.
Formats	Balanced
Impedance	10kΩ

Input – Digital Audio:

Connector	2 x Phoenix pluggable screw block.
Formats	Balanced AES
Impedance	110Ω
Connector	2 x BNC.
Formats	Unbalanced AES
Impedance	75Ω

Outputs - Digital:

Number	2.
Connectors	BNC.
Format	270 Mbit/s (Serial CCIR601, 4:2:2) SMPTE 259M.
Signal Level	800 mV ±10%.

Outputs - Alarms:

Connectors	Polarised two pin connector.
Format	Contact closure on loss of video or power.

Typical Performance:

Differential gain	< 1%
Differential phase	< 1.5°
Luma Non Linearity	< 1%
Chroma Gain error	< 4%
Chroma Delay error	< 3nS
Luminance non linearity	< 1% p-p.
2T pulse K factor	< 5% KF
2T pulse bar factor	< 2% KF
2T pulse bar ratio	< 1%
Line time distortion	0.1%
Bar tilt	0.1%
Signal to Noise Ratio	-68dB weighted ramp
Power requirements	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	7 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, silk-screened black lettering & red IRT logo
	Rear assembly	Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals
Dimensions		32 mm x 3 U x 220 mm IRT Eurocard

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

Detailed specifications available from:

Manufacturer:

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Local Agent:

IRT can be found on the Internet at:

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