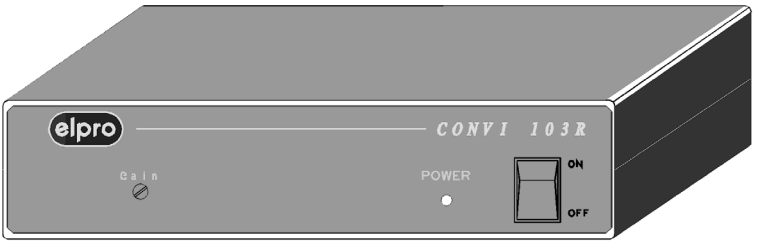
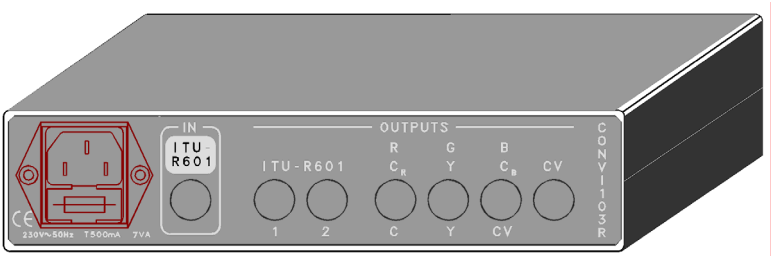
CONVI 103R

SDI to ANALOG CONVERTER





- 1 digital input ITU-R 601 (SDI) terminated at 75 ohm
- 2 regenerated and reclocked digital outputs
- 1 fixed PAL analogue output
- 3 programmable analogue outputs
- Internal TEST generator on all the outputs
- Possibility of disabling the color
- Possibility of synch. insertion in RGB
- 2 selectable internal digital filters
- Output level adjustment using trimmer on front panel

ELPRO BROADCAST s.r.l.
Strada della Pronda 17 - TORINO (ITALY)
Tel. 0117071955 - FAX 011706210

INSTALLATION AND USE OF THE CONVI 103R

INDEX

When installing the CONVI103R unit, please read this handbook carefully.

The manufacturer shall not be held responsible for any damage or injury caused by use, even correct, of its products.

The data and characteristics of the product may be modified without prior notice

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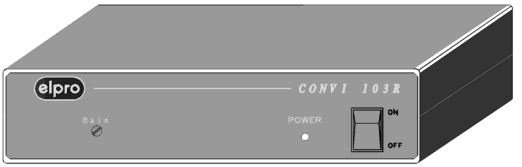
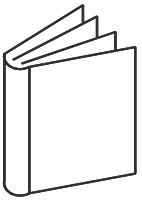
1.0 OVERVIEW

Thank you for buying this product. Check the contents of the packaging carefully. It contains:

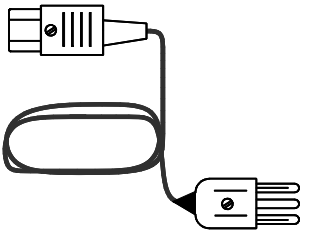
– The CONVI 103R unit



– This handbook



- The mains cable



- Kit for unit assembly in 19" rack stand-alone or with another unit to the side.

The CONVI103R unit is a standard converter that accepts in input a serial digital signal ITU-R 601 (SDI) and converts this into various analog formats available on the 4 output BNC.

To optimize use, is provides 2 regenerated SDI outputs.

At conversion level, it features a fixed PAL standard output and 3 outputs that can be programmed using dip-switches which alternate RGB, or YUV, or YC plus a second PAL output.

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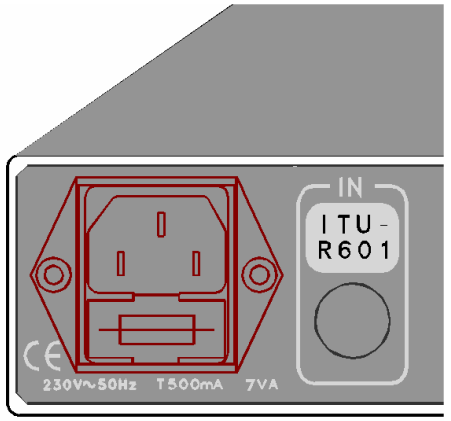
2.0 POWER SUPPLY

The CONVI103R unit must be powered at 230 Vac 50Hz using the cable provided.
The outlet of the cable must be inserted in the panel plug on the left at the back of the unit.



The panel plug is complete with fuse-holder for 5X20 fuses. If the fuse blows, replace with a fuse **with the same rating** as specified on the back of the unit.

All operations must be carried out by qualified personnel only who must be informed of the risks of electric shock

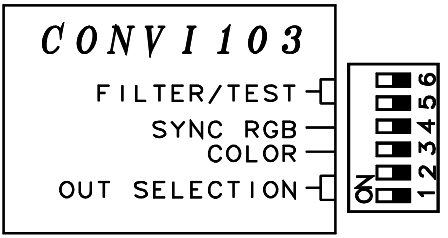
In some countries, the power plug must be adapted to local standards. The wires are identified according to the following coding:

- Brown PHASE (Identified with the letter L, may be red)
- Blue NEUTRAL (Identified with the letter N, may be black)
- Yellow/Green GROUND (Identified with the letter E, may be green)

WARNING
A ground connection is mandatory.

3.0 SETTINGS

The unit has a set of settings made using 6 dip-switches accessible from the backplane of the unit.



DIP-SWITCH

	1	2	**OUT SELECTION** (selection of output format)	
♦	OFF	OFF	Y/C + PAL	+ PAL
	OFF	**ON**	RGB	+ PAL
	ON	OFF	YUV	+ PAL
	ON	**ON**	not used	

	3	**COLOR** (all formats + test)
	OFF	WHITE/BLACK
♦	**ON**	COLOR

	4	**SYNC RGB** (synchronism only on RGB)
	OFF	RGB without synchronism
♦	**ON**	RGB with SYNC on R, G, B.

	5	6	**FILTER/TEST** (filters and tests all format)
♦	OFF	OFF	BROADBAND FILTER
	OFF	**ON**	LPF FILTER
	ON	OFF	NOTCH FILTER
	ON	**ON**	75% COLOR BARS TEST

The unit is factory set as indicated by the sign ♦

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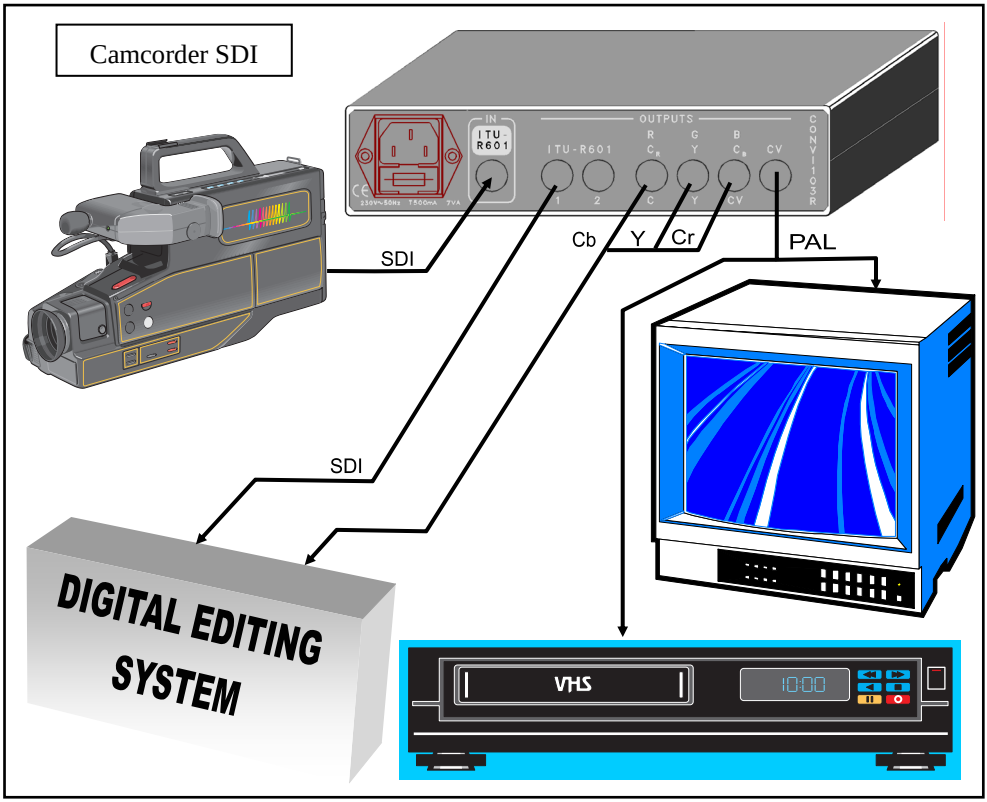
4.0 INSTALLATION

a) Make sure that all the units to be installed are off.
b) Set dip-switches 1÷6 as required according to the table given in paragraph 3.0 SETTINGS.
c) Connect the digital video source (SDI) to the BNC identified as IN ITU-R 601
d) Connect the analog destinations
e) Connect, if required, the SDI destinations (editing systems, mixers, monitors)
f) Power the CONVI103R using the switch on the front of the unit.
g) Power the other units of the system

The signals will be available in output from the CONVI103R according to the screen-printed indications and the type of programming performed. (See chap. 3.0)



5.0 TECHNICAL DATA

Input type :75Ω ITU-R 601
SDI input ret. Loss
:20 dB at 270 MHz
SDI output ret. Loss
:17 dB at 270 MHz
Input level nominal (digital)
:800 mVpp on 75Ω
Output level nominal (analog)
:700 mVpp (plus sync)
Output level regulation
:500 mVpp ÷ 1 Vpp
Output ret.loss (all outputs)
:20 dB at 5 MHz
PAL differential Phase
:0.8 Degree
PAL differential Gain
:0.8 %

Frequency filter response (Luminance only):
-Extended (5 off 6 off)
:-3 dB point at 5.5 MHz
:-0.2 dB at 4 MHz
:-1.4 dB at 5 MHz
:-3.7 dB at 5.75 MHz
-LPF (5 off 6 ON)
:-3 dB point at 4.9 MHz
:-0.6 dB at 4 MHz
:-3.4 dB at 5 MHz
:-8.0 dB at 5.75 MHz
-NOTCH (5 ON 6 off)
:-3 dB point at 2.6 MHz
:-16 dB at 4 MHz
:-26 dB at 5 MHz
:-32 dB at 5.75 MHz
Frequency response (Chroma only):
-All filter :-3 dB point at 2.4 MHz

Main input :230 Vac 50 Hz
Power consumption :11 VA
Size (WxDxH) :200 x 170 x 44 mm
Weight :0.9 Kg
Operating temp. range :0 ÷ 45°C
Safety :according to EN 60065
EMC :according to EN 55103-1 and EN 55103-2

CE Mark

6.0 NOTES

This product is warranted for 2 years from the date of purchase.

If the fault in the product is due to improper use or operations carried out by third parties, the warranty is forfeited.

During the warranty period, Elpro will repair the faulty units free of charge.
The faulty units must be sent CARRIAGE FREE to the Elpro offices in Turin with a regular accompanying note.
The units repaired will be returned CARRIAGE FORWARD to the addressee.
Outside the warranty period, Elpro will repair the faulty units EX its Turin offices, charging the cost of the repair to the customer.

For any problems during installation of the CONVI103R call the Elpro hot line 011 9348778 or E-mail: info@elprosrl.it

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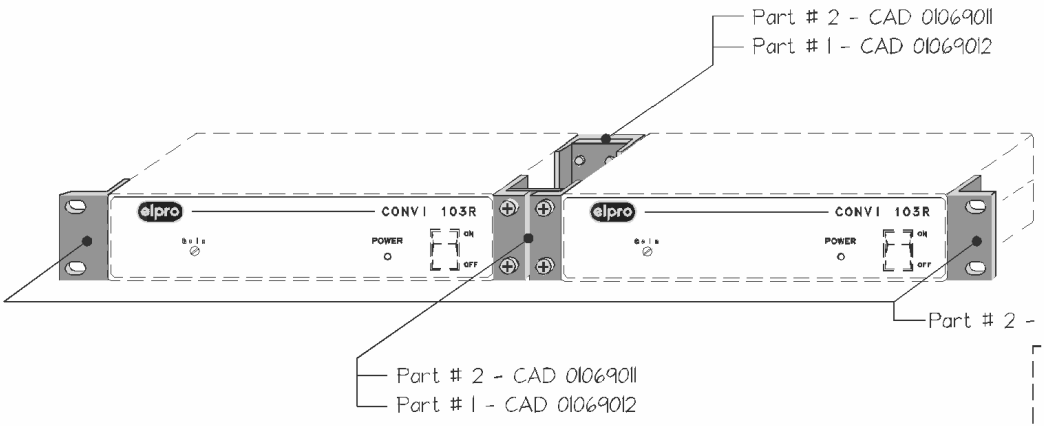
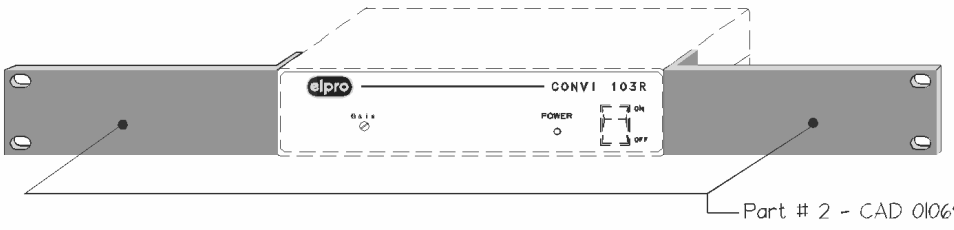
TWIN 19" RACK



THE KIT CONTAINS:

Part #	Qty
CAD 01069011	2
CAD 01069012	1
CAD 01069013	1
CAD 01069014	2
SCREW 4 x 8	10

SINGLE 19" RACK



KIT RACK 29/03/2004 ML