

SDC-101 SERIAL DIGITAL VIDEO CORRECTOR



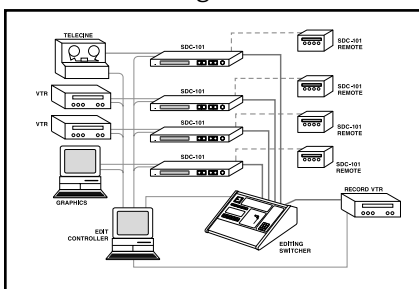
Our unique digital corrector, the **SDC-101**, lets you inexpensively correct picture errors and alter video levels in component serial digital video. Ten bit digital processing guarantees optimum signal quality. And it does it all without relying on expensive outside services.

The SDC-101 is a Serial Digital Video Corrector that accepts a SMPTE 259M-C input and produces an output of the same format. It provides the user with real time control over common video parameters for the purpose of correcting or enhancing video signals. Familiar and understandable analog terms give the user the traditional look and feel of a traditional analog color corrector. Corrections include gain to total video, color gain, hue shift, brightness adjustments, gamma, white clip and soft clip as well as black clip and stretch. The corrections may be applied to total video or selected components (RGB or $YCbCr$) as appropriate for desired results. The SDC-101 is easily controlled by any combination of editors, GPIs, simple timecode triggers, or an optional RCU-102 Remote Control Unit. Its versatility and ease of operation means cost-effective and timely performance. That's what Videotek's products are all about.

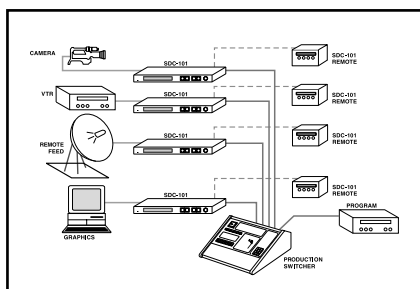
FEATURES

- Editor and PC interface for easy system integration
- All common "analog" video parameters may be adjusted by the user
- Color corrections and enhancements happen in real time
- 50 user-defined memories
- 100% digital processing assures no signal degradation
- Affordable, cost effective, and with the controls you demand
- EDH input is checked and new EDH is added to the output
- RGB legalizer built in
- Editor control
- Internal time triggers

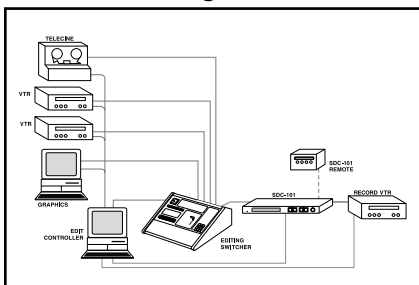
On Line Editing



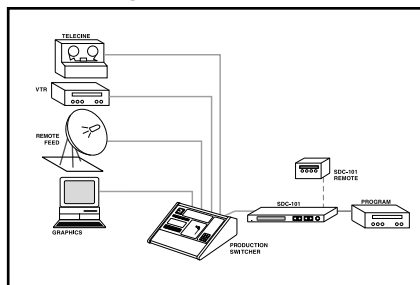
Production



Off Line Editing



Make Legal Production



RCU-102 OPTIONAL REMOTE CONTROL UNIT

SDC-101 SPECIFICATIONS

INPUTS

VIDEO:

One serial digital, non-looping per ITU-R BT.601, 4:2:2, 270 Mb/s, 525/60 and 625/50

CONNECTOR:

BNC female, 75Ω

RETURN LOSS:

>18 dB, 5 MHz to 270 MHz

LEVEL:

800 mV p-p with equalization for up to 150m (typical) of 8281

TIMECODE:

LTC per SMPTE 12M
Level: 0.5 to 4.5V p-p
Connector: XLR, female

OUTPUTS

Two serial digital, same format as input with one providing power failure bypass

CONNECTOR:

BNC female, 75Ω

RETURN LOSS:

> 18 dB, 5 MHz to 270 MHz

LEVEL:

800 mV p-p ± 10% into 75Ω load

OFFSET:

< 0.5V

RISE/FALL TIME:

0.4 to 1.5 ns, typical, at 20/80%

THROUGHPUT DELAY:

6.3 μs nominal

INTERFACES

COMPUTER:

RS-232 interface on rear panel capable of driving up to 90 feet
Baud Rate: Configurable by front panel to 1200, 2400, 4800, 9600, 19.2k, 38.4k bps
Connector: DB9 (female)

RCU-102:

RS-422 Interface, capable of driving up to 1000 feet (304m)
Connector: DB9 (female)

EDITOR:

RS-422 Interface, capable of driving up to 1000 feet (304m)
(Editor control requires optional EI-SDC)
Connector: DB9 (female)

GPI:

Contact closure output
Connector: DB9 (female)

POWER REQUIREMENTS

INPUT:

90 to 260 VAC, 50/60 Hz, nominal

CONSUMPTION:

65 VA, typical

ENVIRONMENTAL

OPERATING TEMPERATURE:

0°C to 50°C

STORAGE TEMPERATURE:

-20°C to 70°C

HUMIDITY:

90% maximum, non-condensing

MECHANICAL

Height: 1.75" (4.45 cm)

Width: 19" (48.26 cm)

Depth: 16" (40.64 cm)

WEIGHT: 11.5 lbs (5.2 kg)

CONTROLLED FUNCTIONS AND CORRECTIONS

GAIN

Total Gain, Color Gain,
R Gain, G Gain, B Gain,
Y Gain, C_b Gain, C_r Gain

HUE SHIFT

BRIGHTNESS (DC Offset)

Total Offset,
R Offset, G Offset, B Offset,
Y Offset, C_b Offset, C_r Offset
Selectable also to Black Level (Black Gain)

WHITE CLIP (White maximum level set)

Total White Clip,
R White Clip, G White Clip, B White Clip,
Y White Clip, C_b White Clip, C_r White Clip

WHITE SLOPE (Soft clip or white knee)

Total White Knee,
R White Knee, G White Knee, B White Knee

GAMMA (50% point offset)

Total Gamma,
R Gamma, G Gamma, B Gamma

BLACK CLIP (Black minimum level set)

Total Black Clip,
R Black Clip, G Black Clip, B Black Clip,
Y Black Clip, C_b Black Clip, C_r Black Clip

BLACK STRETCH (Soft clip or black knee)

Total Black Knee,
R Black Knee, G Black Knee, B Black Knee

STANDARD ACCESSORIES

Instruction and Service Manual
Rackmount Kit

OPTIONS

EI-SDC Editor Interface
RCU-102 Remote Control Unit

RCU-102 (OPTIONAL) SPECIFICATIONS

POWER REQUIREMENTS

INPUT:

90 to 260 VAC, 50/60 Hz, nominal

CONSUMPTION:

3 VA, typical

ENVIRONMENTAL

OPERATING TEMPERATURE:

0°C to 50°C

STORAGE TEMPERATURE:

-20°C to 70°C

HUMIDITY:

90% maximum, non-condensing

MECHANICAL

Height: on desktop: 2.78" (7.06 cm)

Note: This becomes depth when unit is

mounted in a rack frame

Width: 8.46" (21.48 cm)

Front to rear when on desktop: 5.07"

(12.89 cm)

Note: This becomes the height when unit

mounted in a rack frame

Angle of control panel on desktop: 20°

CONNECTORS

RS-422 Interface, capable of

driving up to 1000 feet (304m)

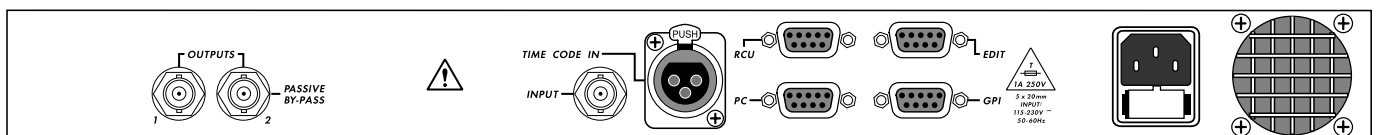
DB9 (male)

STANDARD ACCESSORIES

Instruction and Service Manual

Rackmount Kit

10m (34.2 ft) cable with DB9 connectors



SDC-101 REAR PANEL