datavideo®

Sharing the Value

- SE-900
  Modular 8-Channel
  Digital Switcher

- HD & SD Mobile Video Studios
- HD & SD Recorders
- HD & SD Monitors
- Converters
- Chromakey
- HD & SD SDI CG
- Accessories

## DIGITAL SD SWITCHER

# SE-900

Multi Image Preview Output

Datavideo SE-900 is a modular 8-channel SD switcher with a feature set that may be expanded with additional input cards and accessories. The two piece unit consists of a 19-inch rack mountable main frame, that holds up to 8 input cards, and a control panel. The modular switcher accepts a mix of 8 SD input of your choice including DV, SDI, DVI, YUV and Composite Video. Standard outputs include DV, YUV, S-Video (Y/C) and Composite Video.

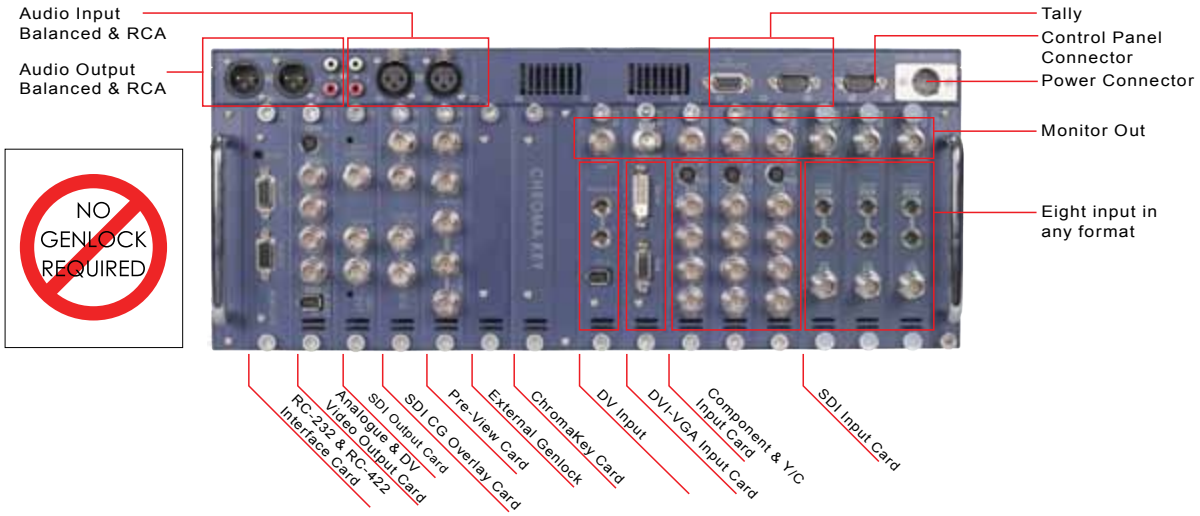
SE-900 features a built in frame synchroniser and TBC for each channel for flicker free switching between all 8 inputs - in any format. Optional genlock input card is available for genlock to existing house reference. The preview output includes both next source and next effect, enabling the producer to preview any effects in confidence before “going live”SE-900 features a down stream keyer for easy integration with a character generator system, such as Datavideo's CG-100 or CG-350. To accommodate for any delay in DV or SDI equipment SE-900 includes an audio delay function as well as a DV/SDI audio embedder.

## FEATURES

- Up to 8 inputs available for any format including SDI, DV, DVI, VGA, YUV, Composite Video
- Outputs include SDI, DV, YUV, S-Video (Y/C) & Composite Video
- Multi image preview panel allows the producer to monitor all live sources (up to 8 input) as well as Program & Next source
- Easy adjustable audio delay for perfect video/audio sync with DV & SDI sources
- SDI Audio embedder• Audio input & output includes RCA (phono) and balanced audio via XLR
- Optional dual chromakeyer, where each keyer can accept two foreground inputs and two background inputs.
- Picture in Picture
- Tally output
- GPI & RS-232 control interface for integration with existing equipment
- SDI Graphics overlay interface for optimal quality of character generator software such as Datavideo CG-100
- .• No genlock is required for flicker free switching thanks to the built in frame synchronisers and TBCs

## CONTROL PANEL VIEW

## BASE UNIT REAR VIEW




## FEATURES

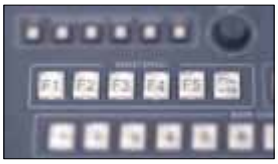
Six pre-set speed keys, enabling the producer to set AUTO Take, Key or other pre-event.

Quick key for selection of Fade to Black

Joystick for RGB control or PiP position

Effect selector including PiP, Mosaic, Paint, Chromakey, Logo insert and much more

The bright LCD Screen ensures easy and confident navigation of multi functions for the producer in a live situation.



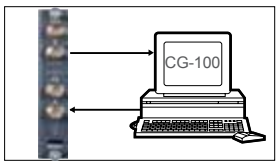
Ten quick selection keys for pre-set events & effects. Makes it easy to pre-program frequently used special effects.

Four channel virtual studios selection.

Easy installation of optional cards including SDI, DVI, Down Stream Keyer, Genlock in and more

Both Phone RCA and Balanced XLR audio connection, with advanced audio delay function, assuring perfect audio and video synchronization.

Each live channel, plus preview and program multi image preview




Optional down stream keyer (DSK) board offers both Internal and External keying options.
Perfect for integration with character generator software such as Datavideo CG-100 and CG-350

Advanced Tally feature allow easy connection to external tally systems such as Datavideo ITC-100 or TB-5

## SE-900 Boards

### INCLUDED

- External Control Board
- SDI CG Overlay Board
- Multi-image Preview Output Board
- Analogue and DV - Output Board

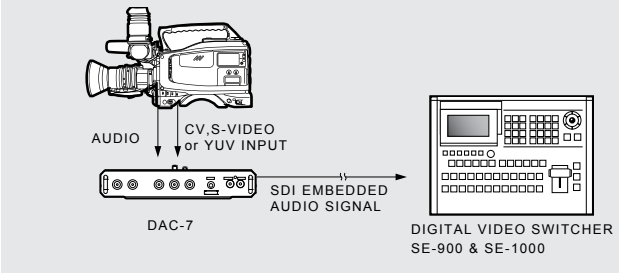
### OPTIONAL

- SDI Input Board
- Analogue Video - Input Board
- DVI-D & VGA Input Board
- DV Input Board
- Four Channel Chromakey Board
- SDI Output Board
- Genlock Board
- DVI Multi Viewer Board

## Optional converters

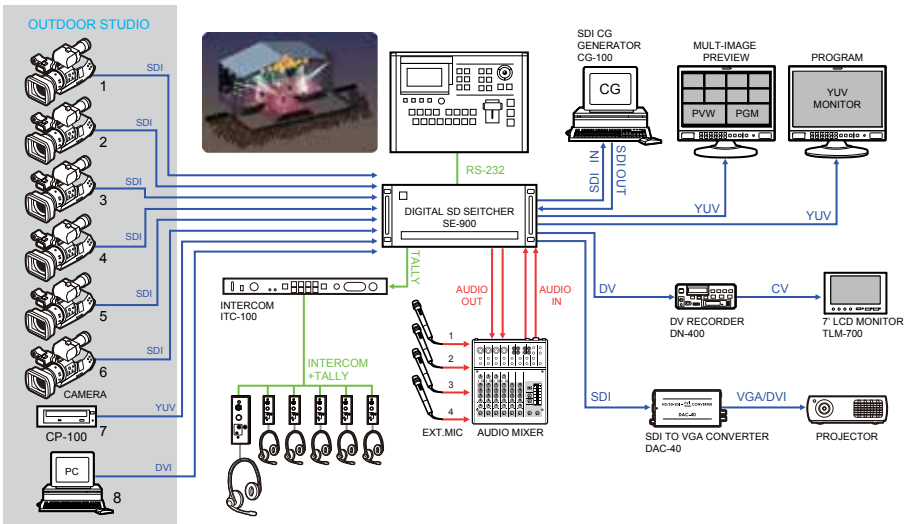
### YUV to SDI Converter

DAC-7

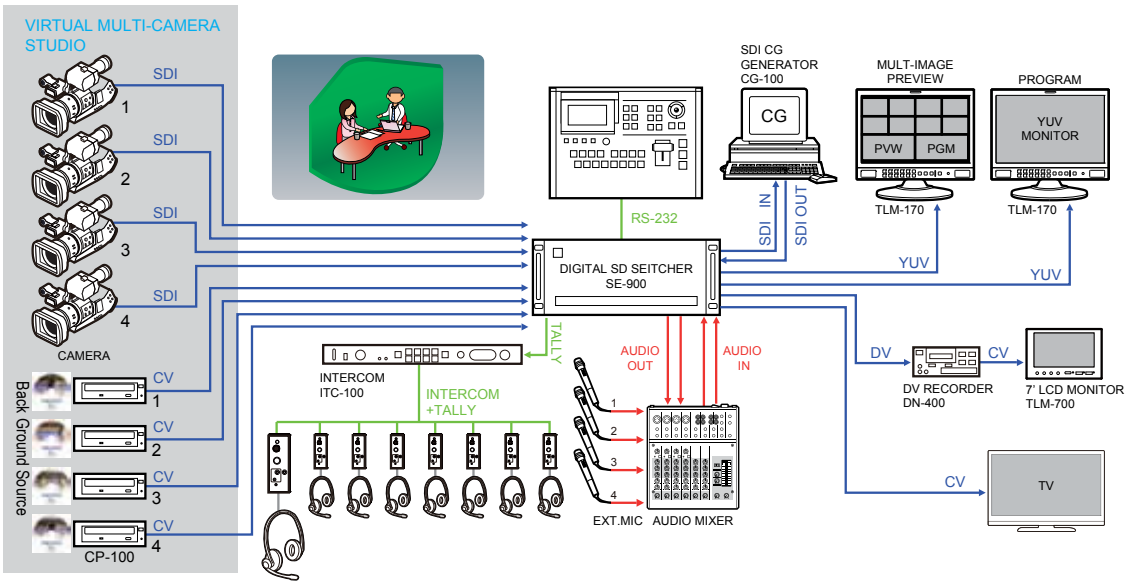



## Application & Setup Diagram

### Studio System Setup




### Chromakey Studio Setup



## SPECIFICATIONS

■ Video Input
Up to eight input in any format, choose between SDI, DV, Analogue Y:U:V, Composite Video & Y/C ( S-Video) DVI-D or VGA

■ Audio Input
Both Balanced XLR and RCA with audio delay for perfect sync with DV or SDI video Sources.

■ Audio Delay
Adjustable for accurate synchronisation between -17 to 0 frame

■ Video Output
Simultaneous SDI, DV, Component Y:U:V, S-video(Y/C) and Composite Video output. Additional output options include; SDI with embedded audio

■ Audio Ouput
RCA (Phono) and Balanced XLR ±12Vp-p

■ Preview Output
Each input includes a Composite output, as well as a unique multi-image preview

■ CG Overlay
SDI Graphics overlay interface using Datavideo CG-100 or CG-350 utilising Blackmagic Design™ DeckLink Card™

■ Plus internal DSK

■Remote Control
RS-422 & RS-232 & GPI

■ Tally interface
D-SUB 15-PIN Group A 1-4 input, group B 5-8

■ Video Correction
Video correction for each channel include; brightness, contrast, saturation and white balance.

■ 6 selectable transition speeds

■ FTB key - Fading to black, Short Cut Key

■ 10-Pre-event preset keys

■ 15 transition effects

■ Digital Effects:
PiP, Border Line, Art Paint, Mosaic and Black/White, Chromakey

■ Power
DC12V 10A

■ Dimensions
Main Unit 430 wide x 350 high x 17.6 deep (mm)
Control Panel 430 wide x 310 high x 95 deep (mm)

■ Weight

| | |
|---|---|
| Main Unit | 11.4KG |
| Control Panel | 2.6KG |

## SE-900 ACCESSORIES (OPTIONAL)

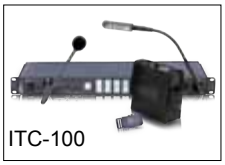
7" TFT LCD Monitor

2 x 7" TFT LCD Monitor Bank

4 x 4" TFT LCD Monitor Bank

Digital Video Recorder

Digital Video Recorder



8-channel intercom talk back system

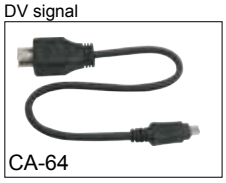
DV Repeaters for long DV cable run or Distribution of DV signal

Tally box and Tally light for camera tally

YUV to SDI Converter

SDI.. Character Generator software, utilising Blackmagic Design™ DeckLink Card™

3 meters HD/SD YUV Cable

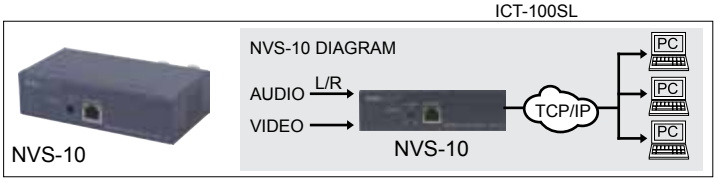


6-Pin to 4-Pin DV adapter

50 meter tally light extension cable between ITC-100 & ICT-100SL

50m/ 100m all in one cable

10/20 meter DV Cable. Cable run can be extended to over 160 meter by combining 2066 with several VP-314



Network Video Server

datavideo®

Sharing the Value

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