# DK320 SD Series
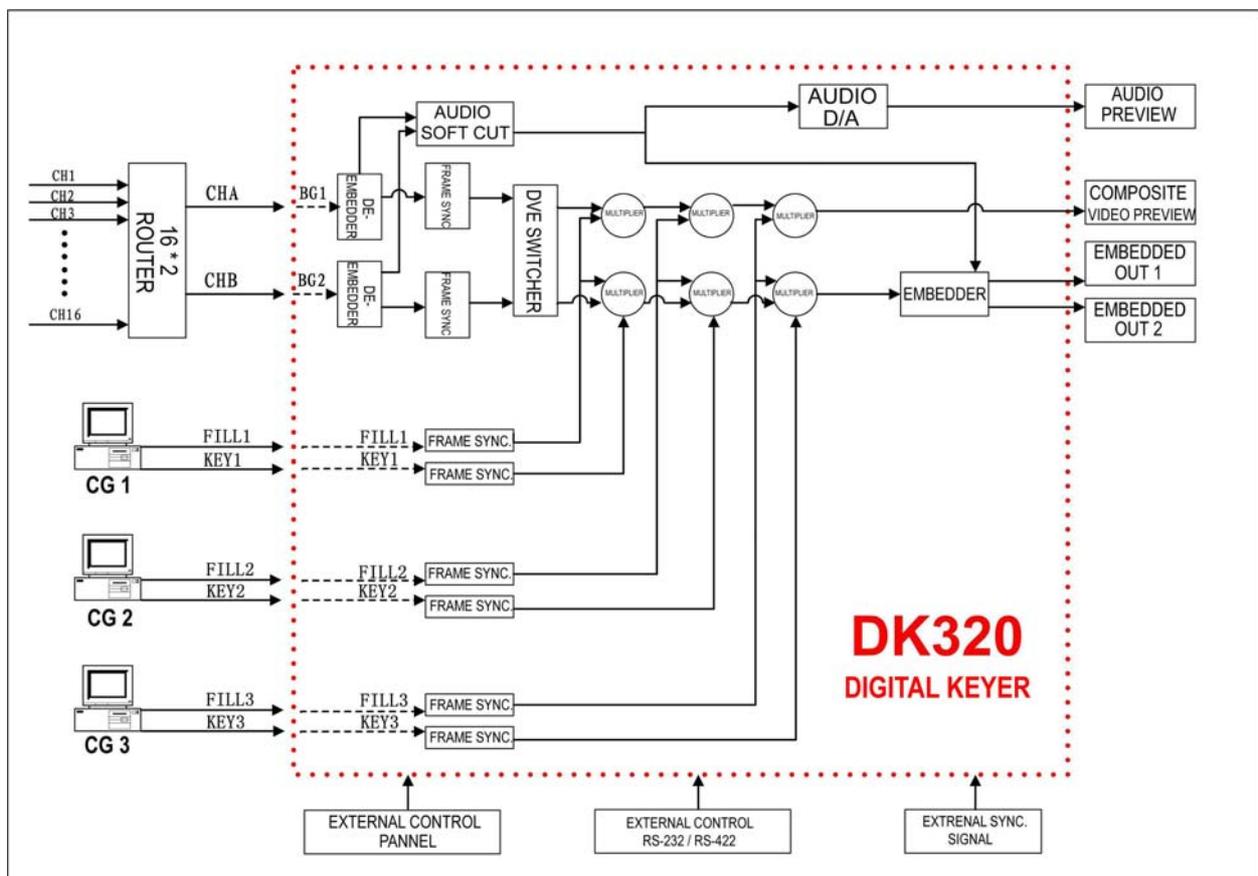## Multiple SD Digital Video Linear Keyer

DK320 is 1-U rack-mountable chassis with built-in three separate digital video linear keyers which is compatible with both NTSC or PAL video standard. With comprehensive A/B vision mixer, like fade in, fade out, cross dissolve, etc., it can be used in conjunction with the keyers to produce a composite transition and suitable for all operational environments.

DK320 provides 2-channel digital or digital embedded background signals input, and switched out to any one channel seamlessly with the internal 10-bit digital frame synchronizer. Supports the embedded SDI signals as the three Fill input signals. DK320 also could be used as the de-embedded unit to output 1-channel analog composite video and 1-channel un-balanced stereo audio for the preview feature.

DK320's each digital linear keyer could be independently controlled. It provides the setting function on each different digital keyer, and it could be easily switched over the background or other keyers by the digital keyers' sequence.

DK320 provides the ability to preview the signal with key-in and allowing the users to set all of the parameters prior to the transitions before the program output.

Dk320 provides the users do the custom the transition rates of the fade-to-black feature. DK320 could detect each of the input keyer and switched to the back ground automatically when there is no any input digital key signals.

# Specifications

## Video Specifications

| | |
|---|---|
| Video Standard | 27MHz 270Mbits/s SDI, SMPTE 259M-C |
| SDI Amplitude | 800mV ± 25mV |
| SDI Jitter (1 kHz) | < 0.2 UI |
| SDI Jitter (10 Hz) | < 0.2 UI |
| Key Data Rate | 13.5 MHz |
| Pb & Pr Data Rate | 6.75 MHz |
| Input Background Signals | 1 channel 270Mbits/s digital SDI video<br>Or 1 channel digital SDI embedded signal |
| Input Fill Signals | 3 channels 270Mbits/s digital SDI video |
| Input Key Signals | 3 channels 270Mbits/s digital SDI video |
| Output Signals | 2 channels 270Mbits/s digital SDI video |
| I/O Connectors | BNCs Terminated in 75 Ohms |
| Preview Signals | 1 channel analog composite video<br>With 1 channel analog un-balance stereo audio |
| Preview Signal's Connectors | Video: BNC Connector<br>Stereo Audio: RCA Connector |
| Genlock Signals | NTSC/PAL Black burst, SD Bi-Level Sync (300mV) |
| External Control Interface | 2pcs of RS-232 or RS-422 control interfaces |

## Mechanical specification

| | |
|---|---|
| Chassis Dimension | 44.5mm × 310mm x 480mm |
| Chassis Weight | 7 Kg |

## Electrical specification

| | |
|---|---|
| Power | 110V ~ 220V |
| Power Consumption | 60W |

# DK320 SD Series
## Multiple SD Digital Video Linear Keyer

# Features

√ 12 Bits internal processing, 10 Bits I/O

√ PAL 625-line or NTSC 525-line video format

√ Provides the feature of soft edges

√ Independent 3 digital linear keyers, key-in at the same time

√ Key priority selectable

√ Internal 8-channel 10-bit high quality digital video frame synchronizer

√ Provides 2 channel digital SDI or SDI embedded background as the Fill-In signals and switch out to any

   one channel background seamlessly

√ Built-in the embedded to de-embedded converter and audio/video D/A converter

√ 1-channel analog composite video and 1-channel un-balanced stereo audio signals for preview output

√ Fade to the black feature

√ Provides A/B vision mixer

√ Bypass mode enabled

√ Provide 2pcs of RS-232 or RS-422 external control interface for the external control system (Option)

√ 1-U external control unit provided (Option)