

IQDKEY

SDI Linear Keyer

The IQDKEY provides a simple & straightforward linear or luma keying capability for 10-bit SDI video streams.

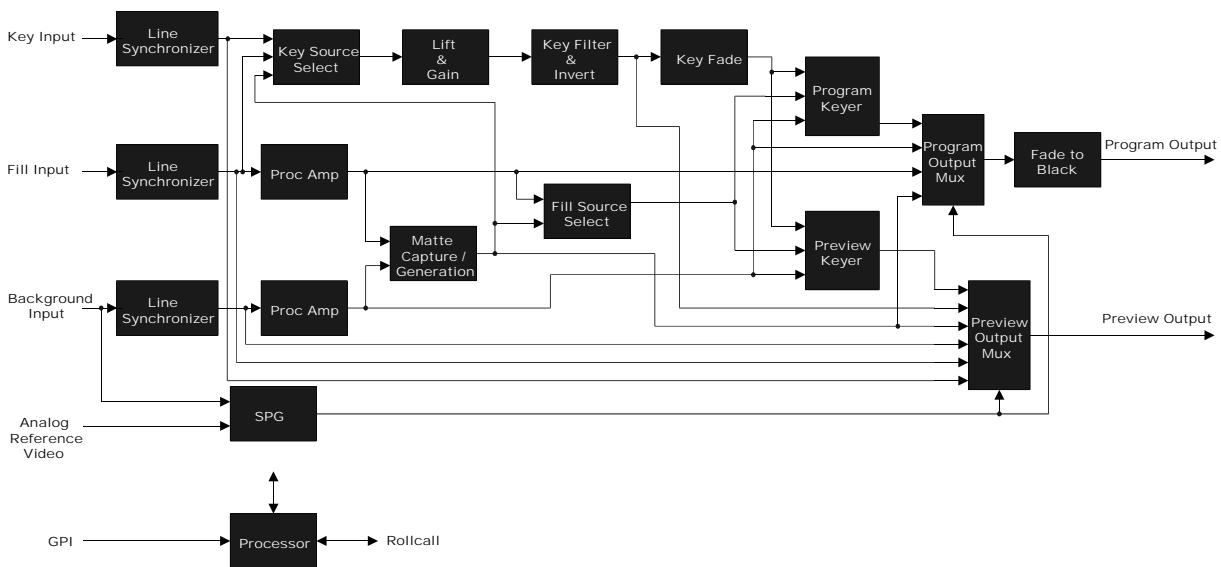
Does this module suit your application?

- Background, Fill, and Key Inputs
- Program and Preview Outputs
- Linear and Luma Key Modes
- Remote trigger of Fade Up/Down action using GPI control
- Matte generation and capture
- Dissolve/Cut Mix mode
- Keyed output always available on Preview Output
- Background, Fill, Key, Matte and Processed Key sources can be viewed on Preview Output
- Fade to black on Program Output
- Internal Processing to at least 12-bit accuracy

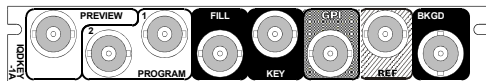
- Maintains valid output with background input fail, with option of switching to Fill input or Matte source
- Ancillary data can be passed from the Background input, the Fill input or blanked
- RollCall remote control and monitoring

Why should you choose this module?

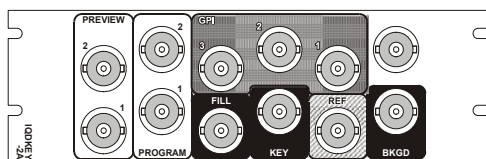
- Linear & luma key modes provide flexible keying for a variety of sources
- On the program output the key layer may be cut or faded on and off
- 2 GPIs and 1 GPI/O which can operate as a Tally output



Order codes for IQH3A/1A enclosures

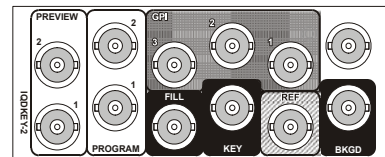


IQDKEY-1A SDI Linear Keyer. 2 program and 1 preview outputs.



IQDKEY-2A SDI Linear Keyer. 2 program and 2 preview outputs.

Order codes for other enclosures



IQDKEY-2 SDI Linear Keyer. 2 program and 2 preview outputs.

For more details on enclosure types please refer to the Frames/Enclosures section

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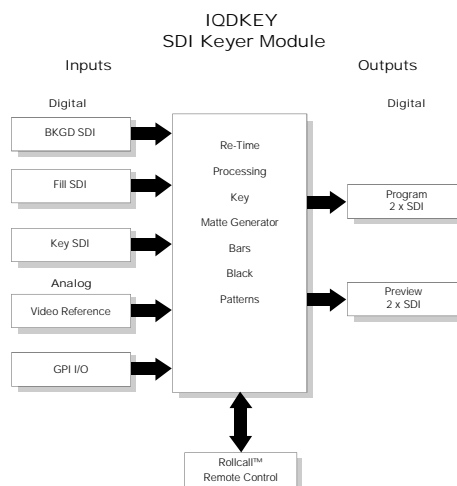
Inputs & Outputs

Signal Inputs

Serial Digital Background..... 1 x BNC Terminated in 75 Ohms
Serial Digital Key..... 1 x BNC Terminated in 75 Ohms
Serial Digital Fill..... 1 x BNC Terminated in 75 Ohms
Standards..... SMPTE 259M-C-1997
Analog Reference..... 1 x BNC Terminated in 75 Ohms
GPI..... 2 Closing Contact style inputs + 1 I/O via BNC

Signal Outputs

Serial Digital..... 2 x SDI Program
Serial Digital..... 2 x SDI Preview
Standards..... SMPTE 259M-C-1997



Card Edge & RollCall Controls

Controls

Bkgd / Fill Luma Gain Adjust ± 6 dB in 0.1 dB steps
Bkgd / Fill Chroma Gain Adjust ± 6 dB in 0.1 dB steps
Bkgd / Fill Black Level Adjust ± 100 mV in 0.8 mV steps
Fill / Key Picture Position ± 593 ns in 74 ns steps
Key Gain..... 0 – 15.999 (0x0000 - 0xFFFF)
Key Lift -10% - +110% (0x800 - 0x7ff)
Program Fade to Black Fade On / Off
Program Fade to Black Time 0 – 2047 Frames (0x0000 - 0x0800)
Default Program Output..... Default Fill, Fill Matte, Color Bars, Black
Preview Output Select Bkgd / Fill / Key I/P, Matte, Keyed Output, Pattern
Preview Caption On / Off
Default Preview Output Fill Matte, Color Bars, Black
Genlock Mode..... Analog Reference / Background Input (Note: Fill and Key inputs can be up to 1 line earlier, but not later than the background input in this mode)
Genlock H Phase..... ± 32 μ s in 37 ns steps

Keyer Controls

Keyer Fade..... Fade On / Off
Keyer Fade Time 0 – 2047 Frames (0x0000 - 0x0800)
Keyer Cut Off / On
Keyer Mode..... Linear, Luma
Key Source..... Key Input / Matte / Fill Input (Self-Key)

Fill Source..... Fill Input / Matte
Key Invert Off / On
Memory Store / Name / Recall
GPI/O function..... GPI – Programmable to recall any memory
GPO - (GPI/O 3 only) – Tally Output
Preset Unit..... Returns all settings to factory defaults

Matte Controls

Matte Select Background / Fill Input / Single Color/ Frame Store
Matte Hue..... 0 – 360°
Matte Saturation 0 - 100%
Matte Luminance 0 - 100%

Card Edge Controls

EDH Reset..... Background, Key and Fill

Indicators

Input Loss..... Background, Key and Fill
Reference Loss
EDH Present/Errors Background, Key and Fill

Additional Controls via RollCall™ Remote Control System

Logging EDH, Input Loss, Standard Change, Reference Loss
RollTrack Set up to 8 unit destinations for Key On / Off / Fade, Background Input Loss/Restore and Keyer Loss/Restore

Matte Download

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Specifications

Serial Input Return Loss Better than 15 dB to 270 MHz
Maximum Input Cable length > 200m (PSF1/2 or equiv. Cable)
Serial Output Level 800 mV \pm 10%
Output Overshoot..... < 70 mV
Output Return Loss..... Better than 15 dB to 270 MHz
Output Jitter < 0.2 UI

EMC Performance Information

Environment Commercial and light industrial E2
Peak Mains Inrush Current following a 5 second mains interruption
No Mains Input
Performance Information.
No performance degradations or cable length limitations

Power Consumption

Module Power Consumption 6.1 W max