

4K/3G/HD KEYER
DSK-400



The DSK-400 is a 4K(UHD) keyer with 12 inputs and 8 outputs for 3G-SDI. Add DSK-400CK for 4K chroma keying. Connect to an HVS-100 for control via HVS-100OU. Also controllable via dedicated GUI.

- 1080p/1080i supported
- 3G-SDI Level A input and Level B (only for FILL/KEY) input supported
- SQD and 2SI(59.97p, 50p) supported
- Supported inputs: LINE (3G/HD-SDI x 4), FILL/KEY (3G/HD-SDI x 4 each)
 - 4K mode: LINE x 1, FILL/KEY x 1 each
 - HD (3G/1.5G) mode: LINE x 4, FILL/KEY x 4 each
- Supported outputs: PGM (SDI x 4), AUX (SDI x 4)
 - 4K mode: PGM x 1, AUX x 1
 - HD (3G/1.5G) mode: PGM x 4, AUX x 4
- Enables combined FILL/KEYs on LINE input. Equipped with FS on FILL/KEY input
- Equipped with INPUT STILL on FILL/KEY input. Available as still image source
- BOX mix, KEY INVERT, GAIN, TRANSPARENCY function
- Offers 1080p down-converted output from 4K for monitoring use
- Supports Genlock, BB or Tri-level Sync. Line lock supported for LINE input
- Bypass output supported as standard
- Built-in web server allows individual settings to be configured over web browser
- GPI input/tally output, with 16 pins assignable to input or output
- Remote control via RS-422 port available
- Simultaneous control from up to four DSK-RU, optional remote control unit
- 4K high-performance DSK-400CK chroma keyer (Option)*
- Redundant DSK-400PSM power supply (Option)

*Not available in 4K 2SI, or 29.97p and 25p format.

4K keying



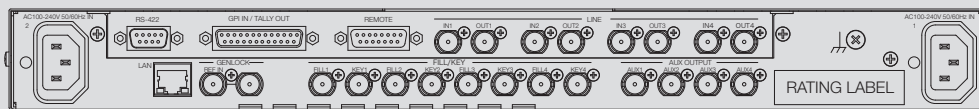
When using as 4K chroma keyer with optional DSK-400CK



Specifications

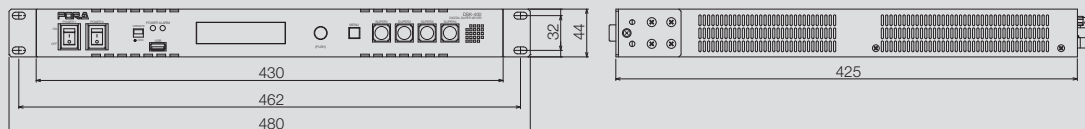
Video format	3G-SDI: 1080/59.94p, 1080/50p, HD-SDI: 1080/59.94i, 1080/50i, 1080/29.97p, 1080/25p
Processing	4:2:2:4, Digital component 10-bit
Quantization	Y: 10-bit, C: 10-bit, KEY: 10-bit
Video input	
BKGD (LINE)	3G-SDI: 3 Gbps (Level A), HD-SDI: 1.5 Gbps, 75Ω, BNC x 4
FILL	3G-SDI: 3 Gbps (Level A/B), HD-SDI: 1.5 Gbps, 75Ω, BNC x 4 (w/ built-in FS function)
KEY	3G-SDI: 3 Gbps (Level A/B), HD-SDI: 1.5 Gbps, 75Ω, BNC x 4 (w/ built-in FS function)
Reference Input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p or Tri-level Sync: 0.6 Vp-p, 75Ω BNC x 1, loophrough (terminated w/ 75Ω terminator if unused)
Video Output	
PGM (LINE)	3G-SDI: 3 Gbps (Level A), HD-SDI: 1.5 Gbps, 75Ω, BNC x 4 (Bypass function available when powered OFF)
AUX	3G-SDI: 3 Gbps (Level A), HD-SDI: 1.5 Gbps, 75Ω, BNC x 4
I/O Delay	
Min. LINE	HD, UHD(29.97p, 25p): Approx. 6 μs/3G, UHD(59.97p, 50p): Approx. 3 μs
Min. FILL/KEY	HD, UHD(29.97p, 25p): Approx. 6 μs/3G, UHD(59.97p, 50p): Approx. 3 μs
If FS used	0 to 1 frame plus minimum delay
If FS + CK used	1 to 2 frames plus minimum delay
If FS + CK + Downconverter used	2 to 3 frames plus minimum delay (4K 2Sl: 1 to 2 frames plus minimum delay)
Video Mixing	
Keying	External KEY/Self KEY/Full KEY selectable
KEY: CLIP/GAIN/TRANSPARENCY	Level Adjustable
FILL source	FILL input/MATTE selectable
KEY source	KEY video input for external keys
FILL MAT	Hue/saturation/luminance (color adjustment)
Edge Effect	Off/Soft/Hard selectable, Edge width 1H to 8H, Position: max. ±4 lines, Edge color adjustable
Box Mask	Top/Bottom/Left/Right/Mirror settings available
Transition	Cut or Fade in/out, remote control available
Interface	
REMOTE	15-pin D-sub (female) x 1
GPI-IN/GPI-OUT/ALARM	25-pin D-sub (female) x 1 (16-input/output)
RS-422	9-pin D-sub (female) x 1
LAN	10/100BASE-TX, RJ-45 x 1
Temperature/Humidity	0°C to 40°C/10% to 90% (no condensation)
Power	100 V AC to 240 V AC ±10%, 50/60 Hz
Consumption	100 V AC to 120 V AC: 105 W, 200 V AC to 240 V AC: 109 W
Dimensions/Weight	430 (W) x 425 (D) x 44 (H) mm/6.2 kg as standard, 6.6 kg with full option
Accessories	AC cable (w/ retaining clip), Rack mount brackets, Cable for DSK-RU connection, Operation manual (CD-ROM), Quick Setup Guide
Consumables (if used 24 hours a day at room temperature)	Power supply unit: Replace every 5 years DSK-400PSM: Replaced every 5 years Cooling fan: Replace every 4 years
Options	DSK-400CK: Chromakey expansion software, DSK-RU: Remote control unit, DSK-400PSM: Redundant power supply

Rear Panel



Unit: mm

External Dimensions



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