

## DSK-400 Datasheet

### 1. Specifications

#### Basic specifications

Temperature	0°C to 40°C
Humidity	10% to 90% (no condensation)
Power	100 V - 240 V AC $\pm$ 10% 50/60 Hz
Consumption	105 W at 100 V-120 V AC 109 W at 200 V- 240 V AC
Dimensions	430 (W) x 425 (D) x 44 (H) mm 480 (W) (Including rack mount brackets)
Weight	Standard: 6.2 kg Full option: 6.6 kg
Consumables (at 24-hour operation)	Power supply unit: Replace every 5 years DSK-400PSM: Replace every 5 years Cooling fan: Replace every 4 years

#### Technical specifications

Video Formats	1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 1080/29.97p, 1080/25p
Signal 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 75 $\Omega$ , BNC $\times$ 4
FILL	3G-SDI: 3 Gbps (Level-A/B) HD-SDI: 1.5 Gbps 75 $\Omega$ , BNC $\times$ 4 (with built-in frame synchronizer)
KEY	3G-SDI: 3 Gbps (Level-A/B) HD-SDI: 1.5 Gbps 75 $\Omega$ , BNC $\times$ 4 (with built-in frame synchronizer)
Reference Input	BB: 0.429 Vp-p (NTSC) /PAL: 0.45 Vp-p, Tri-level sync (0.6 Vp-p) , 75 $\Omega$ BNC x 1, loop-through (Terminate with 75 $\Omega$ terminator, if unused.)
Video Output	
PGM (LINE)	3G-SDI: 3 Gbps (Level-A) HD-SDI: 1.5 Gbps 75 $\Omega$ , BNC $\times$ 4 (Pass-through LINE input to LINE output when powered off)
AUX	3G-SDI: 3 Gbps (Level-A) HD-SDI: 1.5 Gbps 75 $\Omega$ , BNC $\times$ 4

I/O Delay	
LINE	Minimum: Approx. 6 $\mu$ s (HD) / Approx. 3 $\mu$ s (3G, UHD)
FILL/KEY	Minimum: Approx. 6 $\mu$ s (HD) / Approx. 3 $\mu$ s (3G, UHD)
If FS used	0-1 frame plus minimum delay
If FS + CK used	1-2 frames plus minimum delay
If FS + CK + Downconverter used	2-3 frames plus minimum delay (4K 2Sl: 1-2 frames plus minimum delay)
Video Mixing	
Keying	External key, Self key or Full key selectable
Key clip/gain	Key clip, gain and transparency levels adjustable
FILL source	Fill video input or matte selectable
KEY source	Key video input for external keys
FILL MAT	Matte color adjustable using hue, saturation and luminance
Edge effects	Edge Off, Soft or Hard selectable, Edge width: 1 H to 8 H Edge position: Max $\pm$ 4 lines, Edge color adjustable
Box mask	Top, bottom, left and right adjustable, Invert available
Transition	Cut, Fade in/out Remote control available
Interfaces	
REMOTE	15-pin D-sub (female) x 1
GPI-IN/TALLY OUT	25-pin D-sub (female) x 1, 16-input/output
RS-422	9-pin D-sub (female) x 1
LAN	Ethernet 10/100Base-TX RJ-45 x 1

### Options

DSK-400CK	Chroma-key expansion software
DSK-RU	Remote control unit
DSK-400PSM	Redundant power supply unit

### Accessories

AC cord, EIA rack mount brackets, Converter cable for connecting DSK-RU, and Quick Setup Guide

