UDC

The UDC is a broadcast quality Up/Down/Cross Mini-Converter which can convert between SD, HD, and 3G video formats. Using the same AJA industry leading conversion technology as in our model FS2, the UDC provides very high quality conversions at a low price. I/Os include SD/HD/3G SDI Input and Output, HDMI output, and 2-channel RCA style audio output. The UDC can be controlled by local dipswitches with additional control available via USB and AJA's MiniConfig application. A Reference Input allows the UDC to be locked to a local reference.

$989 US MSRP

https://static.aja.com/products/udc

Video Formats

- (HD) 1920 x 1080p
- (HD) 1920 x 1080PsF
- (HD) 1920 x 1080i
- (HD) 1280 x 720p
- (SD) 720 x 625i
- (SD) 720 x 576i
- (SD) 720 x 525i
- (SD) 720 x 480i

Video Input Digital

- 1x 3G-SDI BNC, SMPTE-259/292/372/424
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080i 50, 59.94, 60
- (HD) 1280 x 720p 50, 59.94, 60
- (SD) 625i 50
- (SD) 525i 59.94

Video Output Digital

- 1x 3G-SDI BNC, SMPTE-259/292/372/424
  - (HD) 1080p 23.98 (for 23.98 video inputs)
  - (HD) 1080p 24 (for 24 video inputs)
  - (HD) 1080p 25 (for 50 video inputs)
  - (HD) 1080p 29.97 (for 59.94 video inputs)
  - (HD) 1080p 30 (for 60 video inputs)
  - (HD) 1080p 50 (for 50 video inputs)
  - (HD) 1080p 59.94 (for 23.98, 59.94 video inputs)
  - (HD) 1080p 60 (for 24, 30 or 60 video inputs)
  - (HD) 1080PsF 23.98 (for 23.98 video inputs)
  - (HD) 1080PsF 24 (for 24 video inputs)
  - (HD) 1080PsF 25 (for 50 video inputs)
  - (HD) 1080PsF 29.97 (for 59.94 video inputs)
  - (HD) 1080PsF 30 (for 30 or 60 video inputs)
  - (HD) 1080i 59.94 (for 23.98, or 59.94 video inputs)
  - (HD) 1080i 60 (for 24, 30, or 60 video inputs)
  - (HD) 1080i 50 (for 25 or 50 video inputs)
  - (HD) 720p 50 (for 50 video inputs)
  - (HD) 720p 59.94 (for 23.98, 59.94 video inputs)
  - (HD) 720p 60 (for 24, 30, or 60 video inputs)
  - (SD) 625i 50 (for 25 or 50 fps video inputs)
  - (SD) 525i 59.94 (for 23.98 or 59.94 video inputs)

Reference Source

- Free Run
- Ext Ref

Reference Input

- Supported reference video inputs include
  - 1080i tri-level sync
  - 1080p tri-level sync
  - 720p tri-level sync
  - 625i Color Black
  - 525i Color Black
- 75-ohm terminating

HDMI Output

- 10-bit HDMI v1.4a

Audio I/O

- 16-channel embedded SDI audio input
- 16-channel embedded SDI audio output
- 8-channel HDMI audio output
- 2x RCA style analog outputs at -10 dBu (nominal)

Ancillary Data

- Supports pass-through of PCM embedded audio
- Supports pass-through of non-PCM audio when source is in time with the selected ref (SDI In or Ext Ref). Non-PCM audio is not supported during frame sync operation.
- All other ANC data is stripped

HDCP

- The UDC does not encode the HDMI output with HDCP encryption. By definition, HD-SDI inputs to the UDC are unencrypted. The HDMI specification requires HDMI monitors to support unencrypted inputs.

User Interface

- USB port used with supplied cable and Mini-Config software application to configure device via PC or Mac

Size (w x d x h)

- 5.8" x 3.1" x 1.0" (147.32 x 78.74 x 25.4 mm)

Power

- +5VDC Regulated, 7.0 Watts, Power Supply Required (included with purchase)

Environment

- Safe Operating Temperature: 0 to 40 C (32 to 104 F)
- Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)