

HD/SD D-to-A Converter

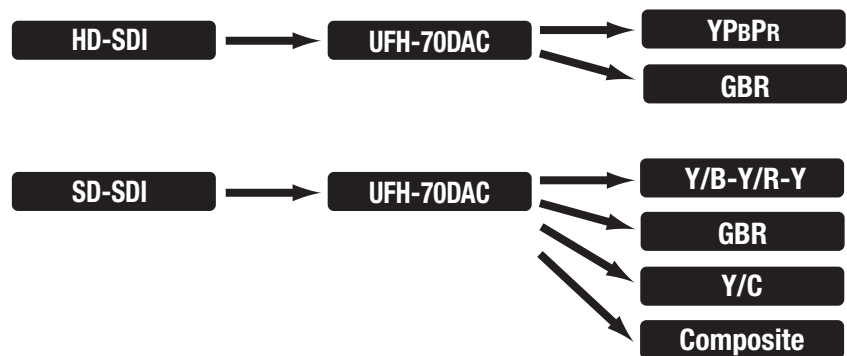
# UFH-70DAC

The UFH-70DAC is a module-type D-to-A Converter that can be installed in a UFH frame. It can convert HD-SDI and SD-SDI signals into analog signals.

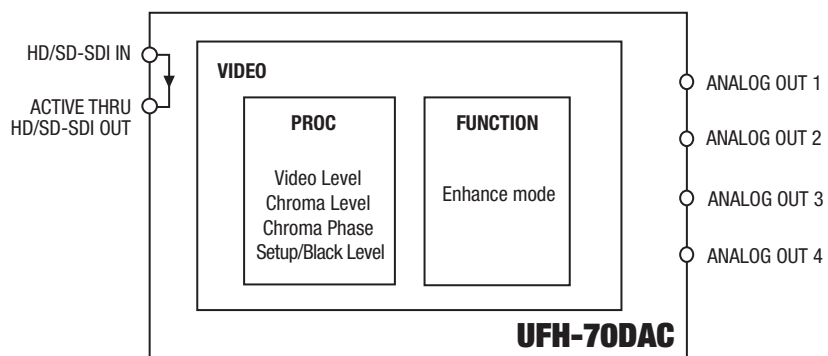
## Features

- Conversion of HD-SDI and SD-SDI signals into analog signals
- Selection of analog signal output enabled (YPbPr, GBR, Y/C, composite signals)
- Sync output signals for monitoring supported
- Process control functions provided (video level, chroma level, chroma phase, setup/black level)
- Selection of enhanced level enabled

## Block Diagram



\* Cannot up-convert or down-convert HD signals into SD signals or SD signals into HD signals.



**D-to-A  
 Converter**

**HD/SD-SDI  
 1 in**

**Analog HD  
 out**

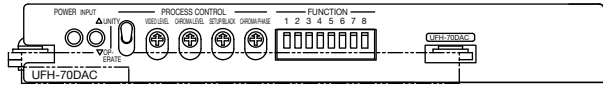
**Analog  
 Component/  
 Y/C / Composite  
 out**

**Proc Amp**

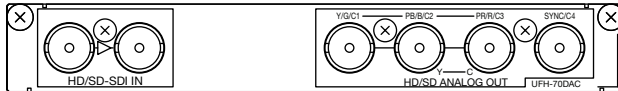
## UFH-70DAC Specifications

● Standard	HD: 1080/60i, 59.94i, 50i, 24p, 23.98p, 720/60p, 59.94p, 50p SD: 525/60 (NTSC), 625/50 (PAL)
● Video Input	HD SDI: 1.5Gbps or SD SDI: 270Mbps, 75Ω, 1ea., BNC
● Video Output	HD SDI: 1.5Gbps or SD SDI: 270Mbps, 75Ω, 1ea., BNC (Active through) <i>Analog Output: Refer to below</i> GBR (HD) or YPbPr (HD) or GBR (SD) or Y/B-Y/R-Y (SD) or Y/C (SD) or Composite (SD) or 2-level sync or tri-level sync output Y or Y/C or Composite: 1.0Vp-p, 75Ω / GBR: 1.0Vp-p, 75Ω (with sync) / PbPr or B-Y/R-Y: 0.7Vp-p, 75Ω / 2-level sync: 0.3Vp-p, 75Ω / tri-level sync: 0.6Vp-p, 75Ω, 4ea., BNC
● Quantization	Y: 10-bit, C: 10-bit
● Sampling Frequency	HD SDI Y: 74.25/1.001MHz or 74.25MHz, C: 37.125/1.001MHz or 37.125MHz SD SDI Y: 13.5MHz, C: 6.75MHz
● Process Control	◆Video Level: Over ±3dB ◆Chroma Level: Over ±3dB ◆HUE: ±30° ◆Setup / Black Level: ±15IRE
● Temperature / Humidity	10°C - 40°C / 30% - 90% (no condensation)
● Power / Consumption / Draw	Supply from UFH Frame, +24VDC / Approx. 8.4VA (8.4W) / Approx. 350mA
● Dimensions / Weight	138.5 (W) x 400 (D) mm (Front board), 141 (W) x 101 (D) mm (Rear board) / Approx. 1.0kg
● Require Slot	1 slot
● Accessories	Operation manual

### UFH-70DAC Front View



### UFH-70DAC Rear View

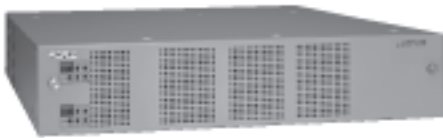


### Analog Output Details

Input Signal	Analog Output Signal			
	ANALOG OUT 1	ANALOG OUT 2	ANALOG OUT 3	ANALOG OUT 4
SD-SDI	1 Y (SD)	B-Y (SD)	R-Y (SD)	Composite (SD)
	2 G (SD)	B (SD)	R (SD)	Composite (SD)
	3 G (SD)	B (SD)	R (SD)	Sync (SD)
	4 -	Y (SD)	C (SD)	Composite (SD)
	5 Composite (SD)	Composite (SD)	Composite (SD)	Composite (SD)
HD-SDI	1 Y (HD)	Pb (HD)	Pr (HD)	-
	2 G (HD)	B (HD)	R (HD)	Sync (HD)

## UFH Frame Line-up

### UFH-108A



#### Holds up to 8 UFH modules

The UFH-108A frame can hold up to 8 UFH modules. It features support for duplicate power supplies, and has a compact size that is only 2U high. It also supports installation of UFM series modules.

### UFH-112A



#### Holds up to 12 UFH modules

The UFH-112A frame can hold up to 12 UFH modules. It features support for duplicate power supplies, and has a compact size that is only 3U high. It also supports installation of UFM series modules.

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