

HD/SD Down Converter

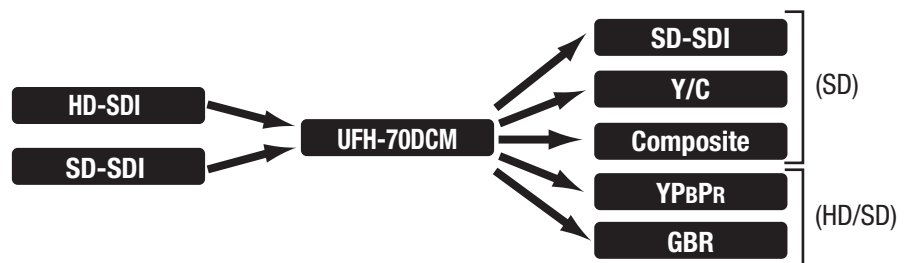
# UFH-70DCM

**This is a down-converter used for monitoring applications and is available in a modular format for installation in a UFH frame. It can convert HD-SDI signals into SD-SDI signals and analog signals or convert SD-SDI signals into analog signals.**

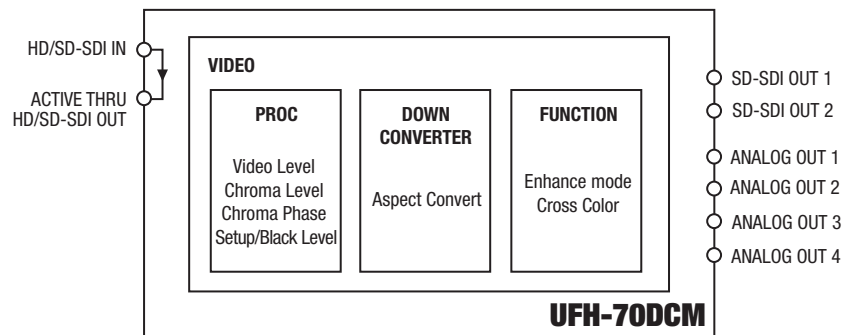
## Features

- Down-conversion of HD-SDI signals into SD-SDI signals and analog signals (HD or SD)
- Conversion into any of four aspect ratios (4:3, 13:9, 14:9, 16:9, squeeze)
- 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)
- Built-in cross color reduction circuit
- Selection of enhanced level enabled

## Block Diagram



\*HD analog signals cannot be output when SD-SDI signals are input.



**Down Converter**

**HD/SD-SDI 1 in**

**SD-SDI 2 out**

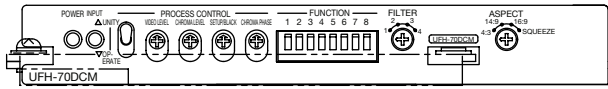
**Analog HD out**

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

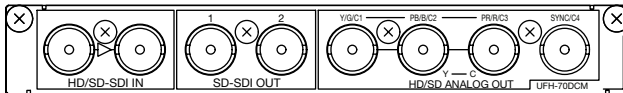
## UFH-70DCM Specifications

● Standard	HD: 1080/59.94i, 50i, 720/59.94p, 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) SD SDI: 270Mbps, 75Ω, 2ea., BNC <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. 9.6VA (9.6W) / Approx. 400mA
● 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-70DCM Front View



### UFH-70DCM Rear View

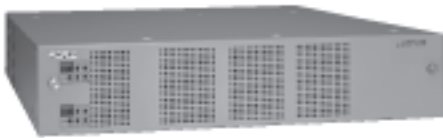


### Analog Output Details

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)	Y (SD)	Composite (SD)
	5 Composite (SD)	Composite (SD)	Composite (SD)	Composite (SD)
HD-SDI	1 Y (HD)	Pb (HD)	Pr (HD)	Composite (SD)
	2 G (HD)	B (HD)	R (HD)	Composite (SD)
	3 G (HD)	B (HD)	R (HD)	Sync (HD)
	4 Y (SD)	B-Y (SD)	R-Y (SD)	Composite (SD)
	5 G (SD)	B (SD)	R (SD)	Composite (SD)
	6 G (SD)	B (SD)	R (SD)	Sync (SD)
	7 -	Y (SD)	Y (SD)	Composite (SD)
	8 Composite (SD)	Composite (SD)	Composite (SD)	Composite (SD)

## UFH Frame Line-up

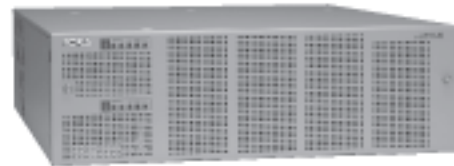
### UFH-108A



#### 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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