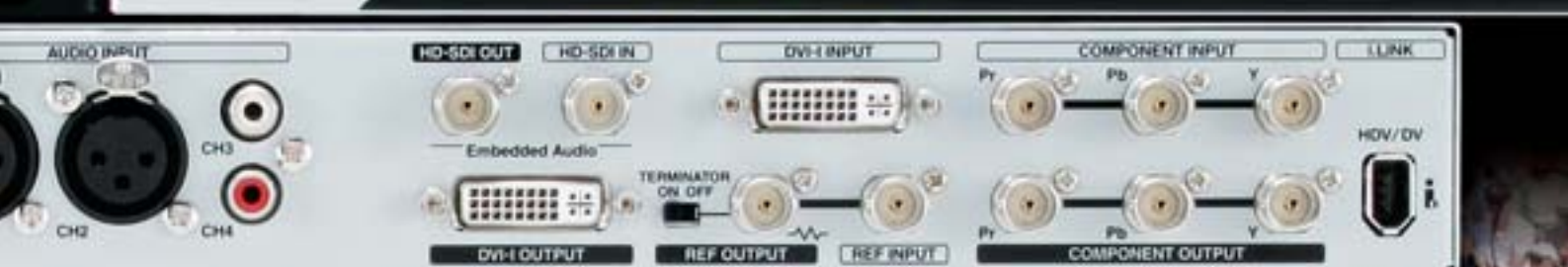
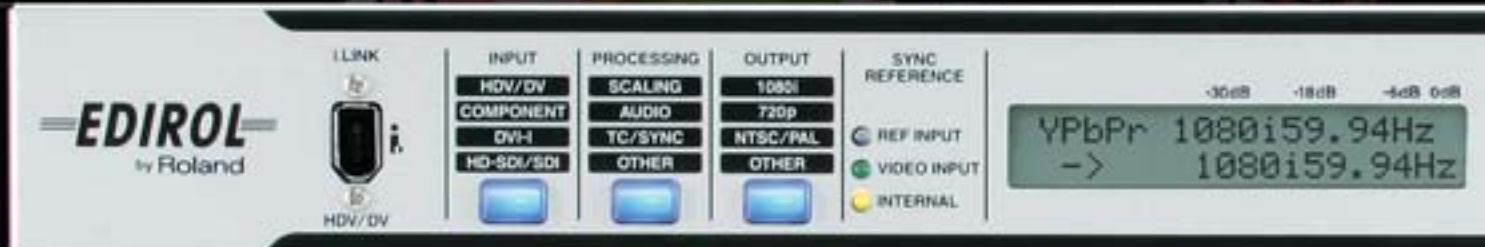


**MULTI-FORMAT CONVERTER**

**VC-300HD/VC-200HD**

**HD-SDI IN / OUT Built-in**  
*Embedded Audio*



**Connect Every Piece of Your World**

The VC series can convert a variety of source signals to the format you desire. The VC series of multi-format converters is designed for all stages of video production and a central piece of your production work flow.



HDV DV RGB HD SD



Signal processing is automatically selected based on selected input and output.

Select input source.

Select output format. Signal after conversion is sent out from all the output terminals

The built-in audio delay for frame-accurate sync

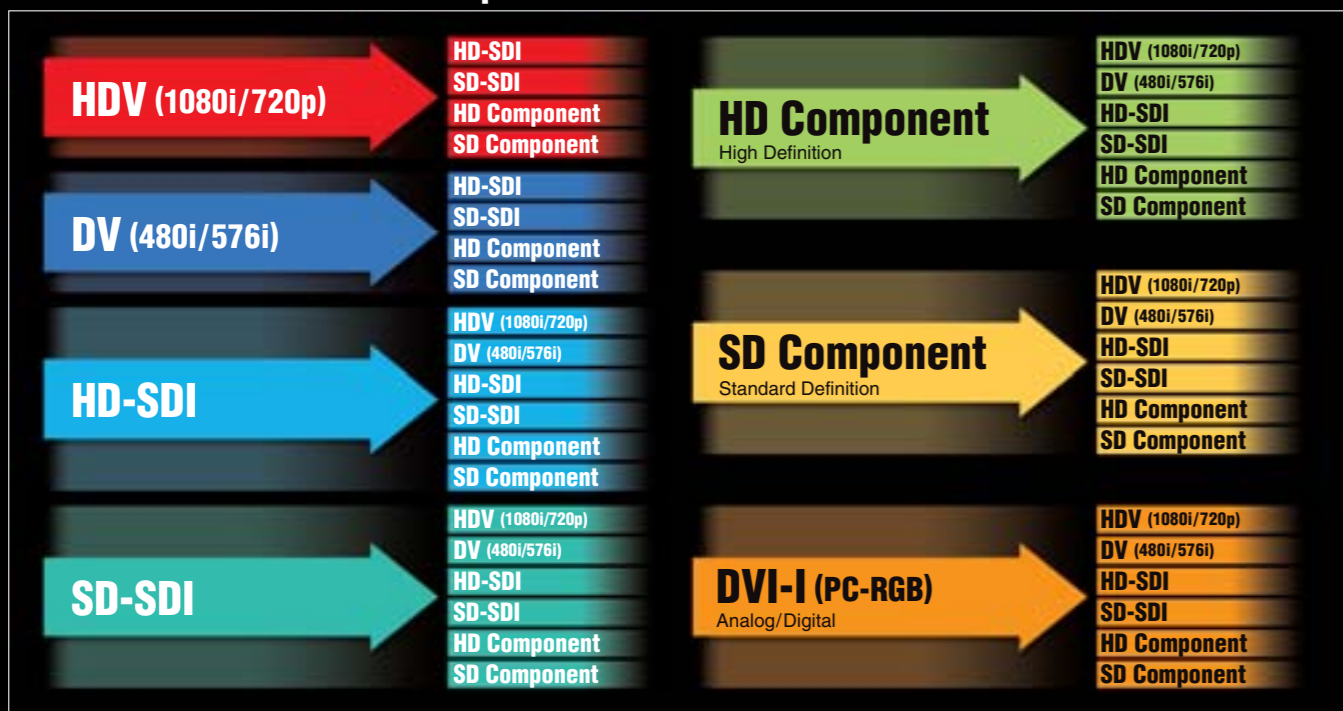
Supports embedded audio with High Quality A/D - D/A conversion

Supports direct input from computer display. Accepts digital RGB signals up to 1600x1200/60Hz and analog RGB signals up to 1024x768/60Hz

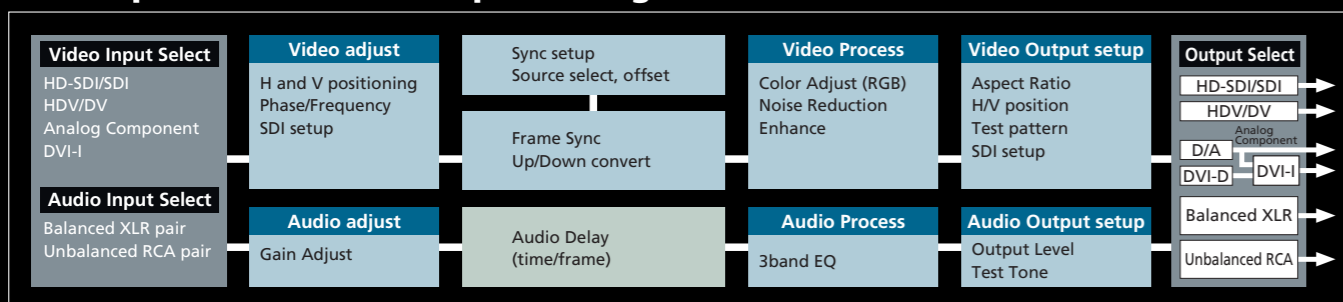
Analog component supports both SD (480i/576i) and HD (720p/1080i)

Supports real-time conversion to HDV.

## Multi-format conversion options



## Multiple video and audio processing functions



\* HDV/DV output is not available when input is HDV/DV

## Multi-format In/Multi-format Out

Designed for a wide range of workflows in mid, post and live video productions, the VC Series offers flexible format conversion of Digital/Analog, HD/SD or compressed/uncompressed signals. The VC series also accepts signals and direct connections from computer RGB sources. A wide variety of output devices like record decks, data projectors or plasma/LCD displays can be directly connected.

## Designed for the Highest Quality Image

The VC Series uses high quality A/D and D/A converters for input and output along with internal 4:4:4 10 bit signal processing. From simple format conversion to MPEG encode/decode to complex frame rate conversions, the VC Series delivers professional results.

**4:4:4**  
10bit Processing

## Compatible with HDV devices

Compatible with wide variety of HDV cameras and VTR's from Sony, Canon and JVC, the VC Series offers a high quality processor for encoding and decoding HDV in real-time. EDIROL's audio technology also makes simultaneous processing of the audio signal possible.

**HDV**  
High Quality encode/decode

## Auto format detection and simultaneous output from multiple terminals

The VC Series features automatic detection of the input source and simultaneous output of the converted signal to multiple terminals such as SDI, IEEE 1394, DVI and analog component. This enables the recording or display of a single source to multiple recording devices or displays.

## Bi-directional Conversion and Scaling

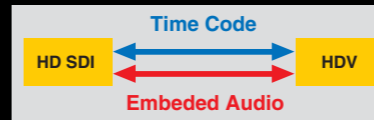
Bi-directional conversion of different formats like 59.94i, 50p etc. is possible with the VC Series. Multiple resolutions like 480i/p, 720p or 1080i can be input/output along with NTSC/PAL conversion.

## Gen lock with external devices

The input and output to and from the VC series can be gen-locked with external devices. The VC supports a variety of sync signals including analog BB, Bi-level (SD) or Tri-level (HD). The VC Series' built-in frame synchronizer helps to lock signals from consumer products or computers.

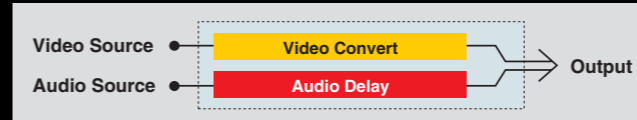
## Time code and embedded audio

When performing HD-SDI/SDI <-> HDV/DV conversion, the VC Series can pass the original time code and audio stream signals. The audio embedded in the HD-SDI or SDI signal can be separated and sent from the analog outputs. The VC Series can embed audio from the analog inputs to the HD-SDI/SDI or HDV/DV signal.

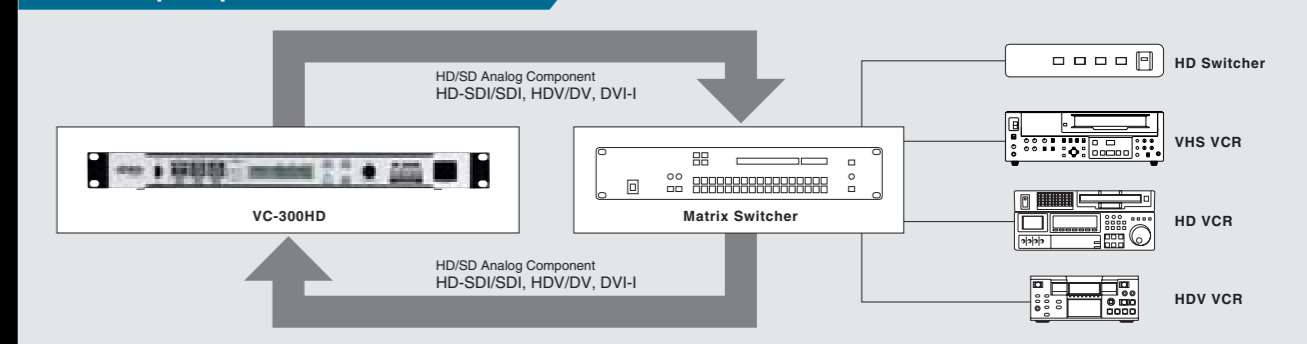


## Audio Delay Function

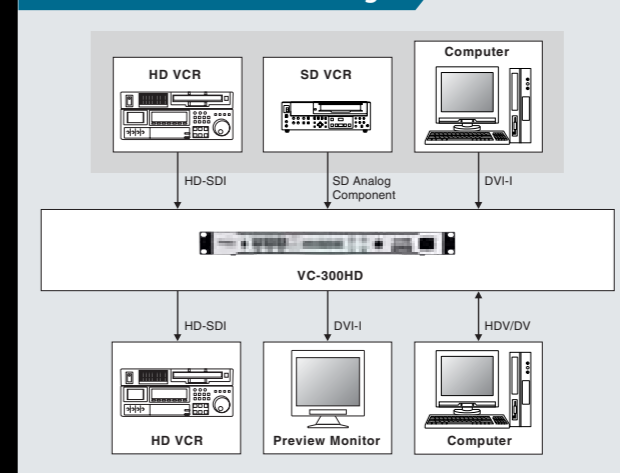
Audio can be precisely delayed by millisecond or frames to compensate for the video delay caused by frame synchronizing or conversion processing. The Audio Delay function makes the perfect "lip sync" possible.



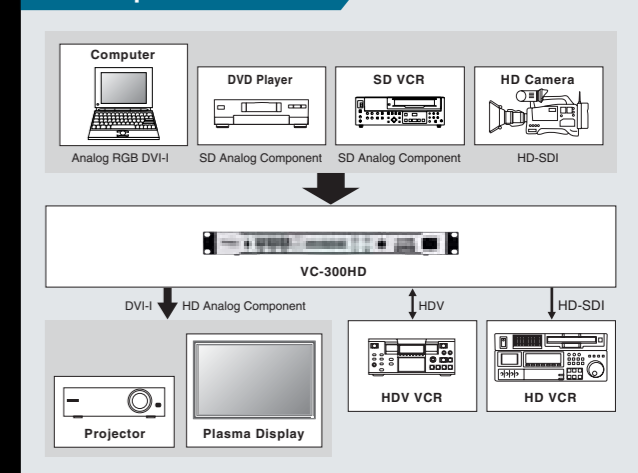
## For video post-production workflow



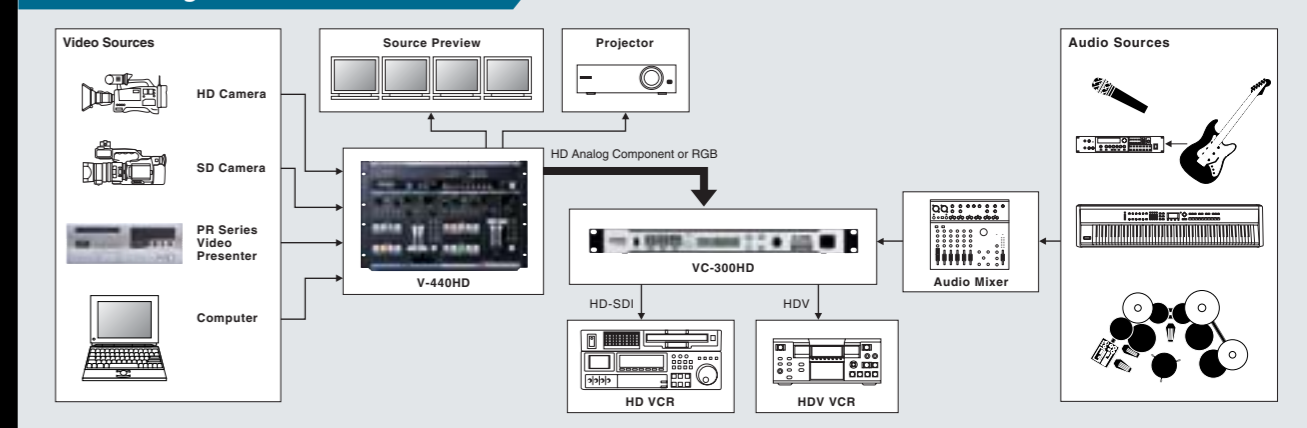
## For non-linear video editing



## For live presentations



## For recording of live video and audio



Affordable model for HDV/DV users

**VC-200HD**  
MULTI-FORMAT CONVERTER  
HDV DV RGB HD SD



# VC-300HD

**MULTI-FORMAT CONVERTER**  
**HDV DV RGB HD SD**  
**HD-SDI IN / OUT Built-in**  
**Embedded Audio**

## Multi Format conversion with Multiple Interfaces in one unit

### Video Input Format

IEEE1394 (i-LINK)	HDV: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p DV: 480/59.94i, 576/50i
Component	Y/Pb/Pr: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94p, 576/50p, 480/59.94i, 576/50i
DVI-I	Digital: 1600x1200/60 Hz, 1400x1050/60/75 Hz, 1360x768/60 Hz, 1280x1024/60/75 Hz, 1280x768/60 Hz, 1280x960/60 Hz, 1152x864/75 Hz, 1024x768/60/75 Hz, 800x600/60/75 Hz, 640x480/60/75 Hz Analog: 1024x768/60 Hz, 800x600/60/75 Hz, 640x480/60/75 Hz
HD-SDI/SDI *	1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94i, 576/50i
Video Sampling Rate	SD: 4:4:4 (Y/Cb/Cr), 10 bits, 13.5 MHz HD: 4:4:4 (Y/Pb/Pr), 10 bits, 74.1758 MHz/74.25 MHz RGB: 4:4:4 (R/G/B), 10 bits, 25 MHz to 90 MHz

### Video Output Format

IEEE1394 (i-LINK)	HDV: 1080/59.94i, 1080/50i, 720/59.94p, 720/50p DV: 480/59.94i, 576/50i
Component	Y/Pb/Pr: 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94p, 576/50p, 480/59.94i, 576/50i
DVI-I	Digital (RGB): 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94p, 576/50p, 480/59.94i, 576/50i Analog (Y/Pb/Pr): 1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94p, 576/50p, 480/59.94i, 576/50i
HD-SDI/SDI *	1080/59.94i, 1080/50i, 720/59.94p, 720/50p, 480/59.94i, 576/50i

### Audio Input

IEEE1394	HDV: MPEG1 Layer II 16 bit 48 kHz 384 kbps DV: Linear PCM 16 bit 48 kHz, Nonlinear PCM 12 bit 32 kHz(2ch)
Analog	Balanced XLR Type (ch1,ch2): +4 dBu, -2 dBu, -4 dBu, -10 dBu Selectable Unbalanced RCA phono type(ch3,ch4): +0 dBu, -6 dBu, -8 dBu, -14 dBu Selectable Audio Sampling Rate: 24 bit, 48 kHz / 32 kHz
HD-SDI/SDI Embedded Audio *	Linear PCM 24 bit 48 kHz

### Audio Output

IEEE1394	HDV: MPEG1 Layer II 16 bit, 48 kHz, 384 kbps DV: Linear PCM 16 bit, 48 kHz, Nonlinear PCM 12 bit, 32 kHz(2ch)
Analog	Balanced XLR Type (ch1,ch2): +4 dBu, -2 dBu, -4 dBu, -10 dBu Selectable Unbalanced RCA phono type (ch3,ch4): +0 dBu, -6 dBu, -8 dBu, -14 dBu Selectable Audio Sampling Rate: 24 bit, 48 kHz / 32 kHz
HD-SDI/SDI Embedded Audio *	Linear PCM 24 bit, 48 kHz

## Processing

Video Processing	Scaling: Scaling between the specified input and output Frame Sync: Built in frame synchronizer and genlock to external device Frame Rate Conversion: from 59.94 to 50 Hz etc. I/P Conversion: De-interlace function built-in
Audio Processing	Delay: Adjustment with Millisecond or Frame Sample Rate Conversion: from 32 to 48 kHz etc.

## Video Connectors

IEEE1394 Connector (i.LINK)	6-pin Type	Conforms to IEEE1394, HDV standards, Same connector on front and rear
COMPONENT Input Connector	BNC Type	HD/SD: Y/Pb/Pr (75 ohms), Bi-Level, Tri-Level Sync
DVI-I Input Connector	DVI 29-pin single link	RGB (8 bit each) Digital RGB dot clock: 25-161MHz (VGA to UXGA) Analog RGB: R/G/B 0.7 Vp-p, 75 ohms, H/V 5VTTL, RGB dot clock: 25-90MHz(VGA to XGA)
HD-SDI/SDI Input Connector *	BNC Type	Supports embedded audio Conforms to SMPTE259M, SMPTE272M, SMPTE292M, SMPTE299M
COMPONENT Output Connector	BNC Type	HD/SD: Y/Pb/Pr (75 ohms), Bi-Level, Tri-Level Sync
DVI-I Output Connector	DVI 29-pin single link	RGB (8 bit each) Digital RGB: same timing as analog component Analog Component: Y/Pb/Pr (75 ohms)
HD-SDI/SDI Output Connector *	BNC Type	Supports embedded audio Conforms to SMPTE259M, SMPTE272M, SMPTE292M, SMPTE299M
REF Input	BNC Type	Black Burst, Bi-Level, Tri-Level Sync
REF Output	BNC Type	Loop Thru Output

\* VC-300HD Only

## Audio Connectors

Input CH1, CH2	XLR type	20 k ohms
Input CH3, CH4	RCA phono type	20 k ohms
Output CH1, CH2	XLR type	600 ohms
Output CH3, CH4	RCA phono type	1 k ohms

## Others

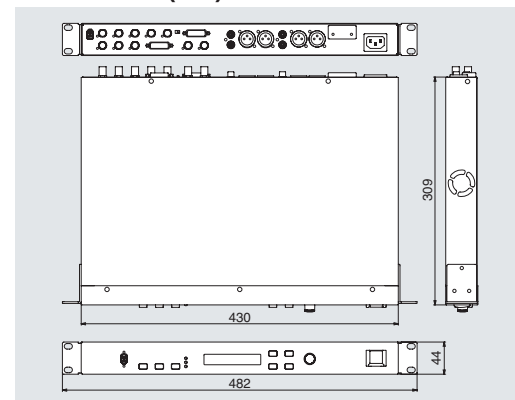
Display	Character Type LCD: 20 characters, 2 lines (backlit LCD)
Power Supply	AC 117 V, AC 230 V, AC 240 V (50/60 Hz), AC 220 V (60 Hz)
Power Consumption	60 W
Dimensions	482 (430 without rack mount bracket) (W) x 309 (D) x 44 (H) mm * EIA-1U Rack Mount Size 19 (16-15/16 without rack mount bracket) (W) x 12-3/16 (D) x 1-3/4 (H) inches
Weight	4.5 kg, 9 lbs 15 oz
Accessories	Owner's Manual, Rubber Foot x 4, Power Cord

## Format Conversion Table

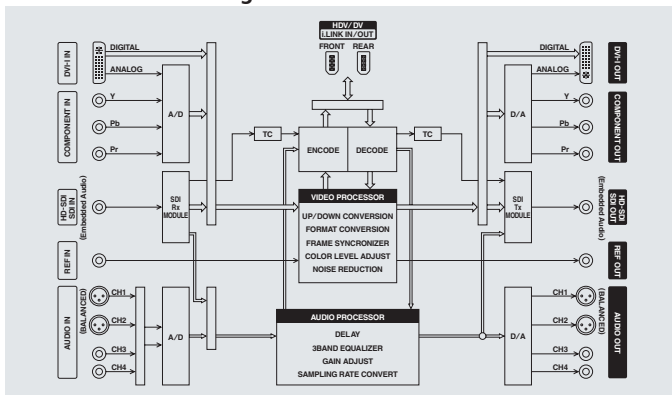
		OUTPUT FORMAT						
		HDV(1080i)	HDV(720p)	DV	COMPONENT	DVI	SDI(HD)	SDI(SD)
INPUT FORMAT	HDV(1080i)	—	—	—	○	○	○	○
	HDV(720p)	—	—	—	○	○	○	○
	DV	—	—	—	○	○	○	○
	COMPONENT	○	○	○	○	○	○	○
	DVI	○	○	○	○	○	○	○
	SDI(HD)	○	○	○	○	○	○	○
	SDI(SD)	○	○	○	○	○	○	○

○ for VC-300HD/VC-200HD    ○ for VC-300HD only

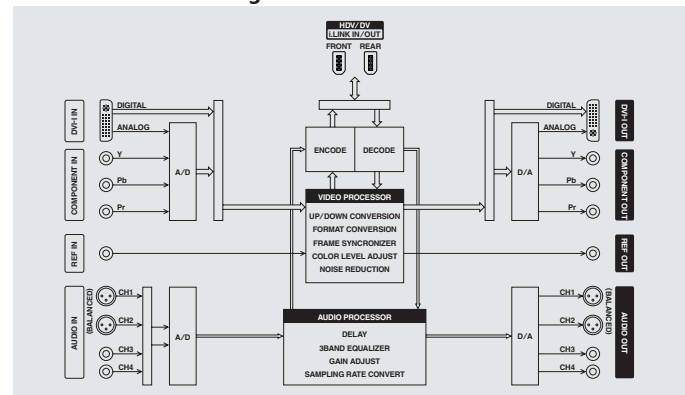
## Dimensions (mm)



## VC-300HD Block Diagram



## VC-200HD Block Diagram



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