

## HD/SD Frame Rate Converter

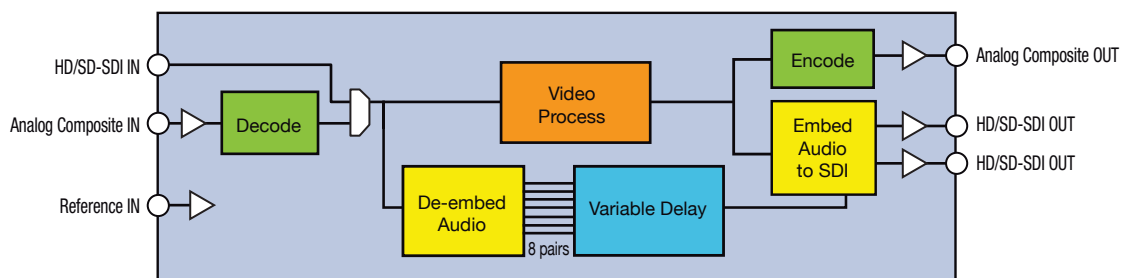
# FRC-30



**The FRC-30 is a one-RU high, half-RU wide frame rate converter based on the UFM-30FRC. Capable of both motion compensation and linear conversions, the FRC-30 achieves outstanding levels of conversion regardless of video content. Last but not least, the FRC-30 further offers Up/down/cross converters are standard features.**

- Motion compensation mode and linear conversion mode are switchable
  - Motion compensation mode: detects the motion vector amount of a moving object and generates the object's motion in frames
  - Linear conversion mode: frame conversion based on previous and next frames
- Supports HD/SD-SDI, and analog composite signals
  - Supports 1080/59.94i, 1080/50i, 1080/23.98PsF, 720/59.94p, 720/50p, 525/60, 625/50 inputs, and frame rate conversions
- Up/down/cross converters are standard features
  - From SD up to HD, from HD down to SD, and from 1080i to 720p

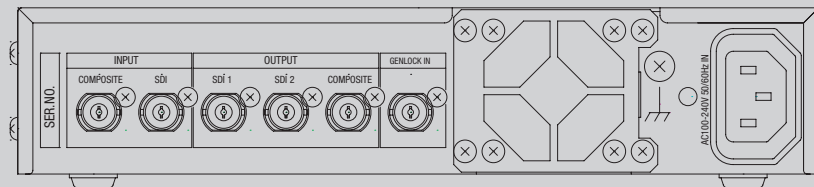
### ■ Block Diagram



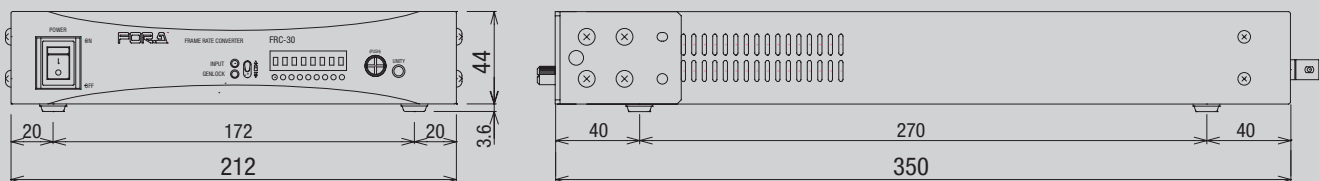
## Specifications

Video Format	HD: 1080/59.94i, 1080/50i, 1080/23.98PsF, 720/59.94p 720/50p SD: 525/60 (NTSC) 625/50 (PAL)
Video Input	Analog Composite: 1.0 Vp-p HD-SDI: 1.5 Gbps SD-SDI: 270 Mbps 75Ω, BNC x 1 *HD/SD-SDI or analog composite can be selected from the input select menu.
Genlock Input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: ±0.3 Vp-p, 75Ω, BNC x 1
Sync Mode	Reference lock mode / Input mode / Free-run mode
Phase Control	Reference lock mode: System horizontal phase ±1/2 H
Video Output	HD-SDI: 1.5 Gbps SD-SDI: 270 Mbps 75Ω, BNC x 2 (distributed)
Monitor Output	Analog Composite: 1.0 Vp-p ±0.1V, 75Ω, BNC x 1 *It can be used when SD-SDI output is selected.
Proc Amp	Set up level: -14.0% to +14.0% (0.1% step) Y level: 70.0% to 130.0% (1.0% step) Chroma level: 70.0% to 130.0% (1.0% step)
Audio Input/Output	Embedded Audio: 16 channels (GROUP 1-4), 48 kHz *asynchronous audio is not supported.
Temperature/Humidity	0°C to 40°C / 30% to 90% (no condensation)
Power·Consumption	100V AC to 240V AC ±10%, 50/60 Hz · 30VA(28W) (at 100V AC)
Dimensions·Weight	212 (W) x 44 (H) x 350 (D) mm · 3kg

## Rear Panel



## External Dimensions



## FOR-A COMPANY LIMITED

Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

FOR-A Corporation of America: 11155 Knott Ave., Suite G&H, Cypress, CA 90630, U.S.A.

FOR-A Corporation of America East Coast Office: 2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee NJ 07024, U.S.A.

FOR-A Corporation of America Distribution & Service Center: 2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

FOR-A Corporation of America Miami Office: 5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, U.S.A.

FOR-A Corporation of Canada: 346A Queen Street West, Toronto, Ontario M5V 2A2, CANADA

FOR-A UK Limited: Unit C71, Barwell Business Park, Leatherhead Road, Chessington Surrey, KT9 2NY, UK

FOR-A Italia S.r.l.: Via Voltorno, 37, 20047, Brugherio MB, Italy

FOR-A Corporation of Korea: 1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea

FOR-A China Limited: 708B Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China

FOR-A Middle East-Africa Office: Jebel Ali Free Zone, LOB-16, Office 619, P.O. Box 261914, Dubai, U.A.E.

URL: <http://www.for-a.com/>

Tel : +81 (0)3-3446-3936

Tel: +1-714-894-3311

Tel: +1-201-944-1120

Tel: +1-352-371-1505

Tel: +1-305-931-1700

Tel: +1-416-977-0343

Tel: +44 (0)20-8391-7979

Tel: +39-039-881-086/103

Tel: +82 (0)2-2637-0761

Tel: +86 (0)10-8721-6023

Tel: +971 4 887 6712

Fax : +81 (0)3-3446-1470

Fax: +1-714-894-5399

Fax: +1-201-944-1132

Fax: +1-352-378-5320

Fax: +1-305-264-7890

Fax: +1-416-977-0657

Fax: +44 (0)20-8391-7978

Fax: +39-039-878-140

Fax: +82 (0)2-2637-0760

Fax: +86 (0)10-8721-6033

Fax: +971 4 887 6713

ISO 9001 and 14001 certified (Sakura R&D)

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