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

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**Rear Panel**

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**External Dimensions**

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