

Specifications

Video format	1080/59.94i, 1080/50i, 1080/24PsF, 1080/23.98PsF, 720/59.94p, 720/50p, 525/60 (NTSC), 625/50 (PAL)
Video Input	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω BNC x 2 Analog Composite: 1.0 Vp-p 75Ω BNC x 1
Video Output	HD-SDI: 1.5 Gbps or SD-SDI: 270 Mbps 75Ω BNC x 4 Analog Composite: 1.0 Vp-p 75Ω BNC x 2
Signal Process	4:2:2 Digital Component
Quantization	HD/SD-SDI: 10-bit, Analog component: 12-bit
Sampling Frequency	HD-SDI: Y: 74 MHz C: 37 MHz SD-SDI: Y: 13.5 MHz C: 6.75 MHz
Frequency Response (Composite I/O)	NTSC: 100 kHz to 4.2 MHz: -0.5 dB to +0.5 dB, 4.2 MHz to 5.0 MHz: -1.0 dB to +1.0 roll off above 5.0 MHz PAL: 100 kHz to 4.2 MHz: -0.5 dB to +0.5 dB, 4.2 MHz to 5.5 MHz: -1.0 dB to +1.0 roll off above 5.5 MHz
DG/DP (Composite I/O)	1% / 1°
S/N Ratio (Composite I/O)	60 dB or better (without quantization noise)
K Factor (2T pulse, Composite I/O)	1%
Comb Filter	2D or 3D comb filter (selected by menu)
Genlock Input	BB: NTSC: 0.429 Vp-p / PAL: 0.45 Vp-p or Tri-sync: 0.6 Vp-p 75Ω or loop through BNC x 1 (Terminate with 75Ω terminate plug)
Synchronization Mode	Frame sync mode, Line sync mode, Input sync mode
System Phase Adjustment	
Frame Sync Mode	H phase: -1/2 H to +1/2 H V Phase: -1/2 frame to +1/2 frame Delay: Max: 1 frame +1 H / Min: 1 H
Line Sync Mode	H phase: -1/2 H to +1/2 H V Phase: -1/2 frame to +1/2 frame Delay: Max: 1 H +1/2 H / Min: 1 +2 H
Input Sync Mode	H phase: -1/2 H to +1/2 H V Phase: -1/2 frame to +1/2 frame Delay: Max: 1 frame/ Min: +520 clk
Video Function	12 axis color corrector, RGB color corrector, Proc Amp, and Video Clip
12 Axis Color Correction	Saturation and hue setting for following 12 colors individually (R, R-Ye, Ye, Ye-G, G, G-Cy, Cy, Cy-B, B, B-Mg, Mg, Mg-R)
RGB Color Correction	Balance mode / Differential mode / Sepia mode
Video Clip	YPbPr Mode / RGB Mode / Composite Mode
Process Amplifier	Video Level: 0.0% to 200.0% Y Level: 0.0% to 200.0% Chroma Level: 0.0% to 200.0% Black Level: -20.0% to 100.0% HUE: -179.8° to +180°

Audio Input (Embedded)	HD: 16 Channel (Group 1 to 4), 48 kHz, 16-bit to 24-bit, Sync/ Async SD: 12 Channel (Group 1 to 3), 48 kHz, 16-bit to 24-bit, Sync
Audio Output (Embedded)	HD: 16 Channel (Group 1 to 4), 48 kHz, 16-bit to 24-bit, Sync/ Async SD: 12 Channel (Group 1 to), 48 kHz, 16-bit to 24-bit, Sync
Interface	Ethernet: 10 Base-T/100 Base-TX/1000 Base-T, RJ-45 x 2 Remote (GPI): 9-pin D-sub (Male) x 1, 7 circuits (IN/OUT) TTL Negative Logic or Make contact
Temperature / Humidity	0°C to 40°C / 30% to 90% (no condensation)
Power	100 VAC to 240 VAC ±10% 50/60 Hz
Consumption	Approx. 50 VA (47 W) (at 100 VAC to 120 VAC) Approx. 64 VA (52 W) (at 220 VAC to 240 VAC)
Dimensions / Weight	430 (W) x 44 (H) x 350 (D) mm / Approx. 3.0 kg
Consumables (if used 24 hours a day at room temperature)	Cooling fan: Replace every 6 years. Power unit: Replace every 5 years.
Accessories	Operation manual, AC cord, Rack mount brackets
Options	DCC-70RU: Remote Control Unit (IU type) DCC-70DRU: Remote Control Unit (tabletop type)

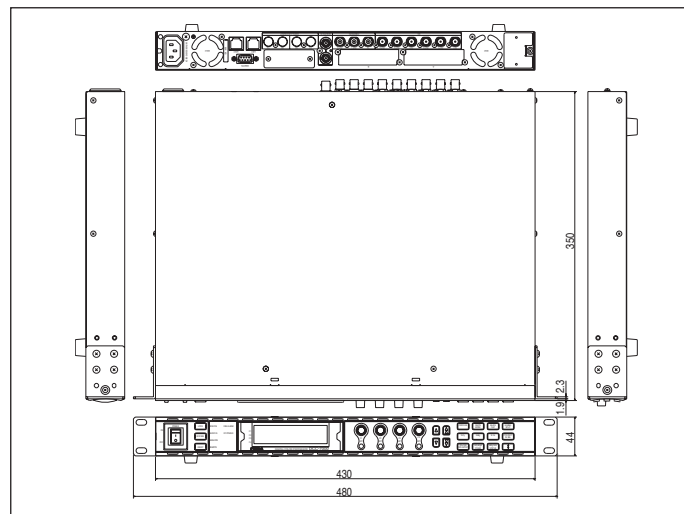
DCC-70DRU Specifications

Interface	Ethernet: 10 Base-T/100 Base-TX RJ-45 x 1
Temperature / Humidity	0°C to 40°C / 30% to 90% (no condensation)
Power	100 VAC to 240 VAC ±10% 50/60 Hz
Consumption	Approx. 18 VA (17 W) (at 100 VAC to 120 VAC) Approx. 22 VA (16 W) (at 220 VAC to 240 VAC)
Dimensions / Weight	440 (W) x 78 (H) x 278 (D) mm / Approx. 6.5 kg
Consumables	Power unit: Replace every 5 years
Accessories	Operation manual, AC cord

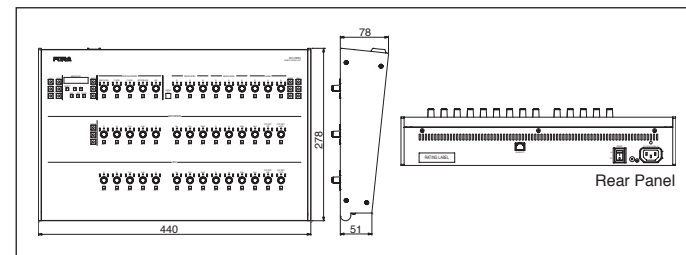
DCC-70RU Specifications

Interface	Ethernet: 10 Base-T/100 Base-TX RJ-45 x 1
Temperature / Humidity	0°C to 40°C / 30% to 90% (no condensation)
Power	100 VAC to 240 VAC ±10% 50/60 Hz
Consumption	Approx. 18 VA (10 W) (at 100 VAC to 120 VAC) Approx. 24 VA (12 W) (at 220 VAC to 240 VAC)
Dimensions / Weight	430 (W) x 44 (H) x 145 (D) mm / Approx. 2.2 kg
Consumables	Power unit: Replace every 5 years
Accessories	Operation manual, AC cord, Rack mount brackets

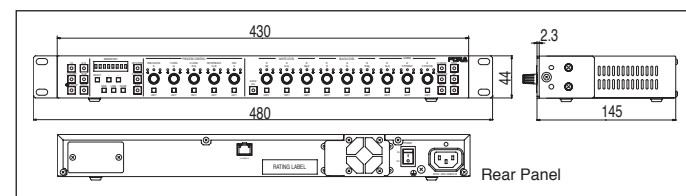
DCC-7000 External Dimensions



DCC-70DRU External Dimensions



DCC-70RU External Dimensions



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DCC-7000

HD/SD Advanced Color Corrector



High-performance HD/SD color corrector, for precise color correction in real time using 12 color parameters. In addition to offering black level adjustment and versatile processing, the unit incorporates a frame synchronizer. Dedicated control panels are also available, enabling more efficient operation.



Applications include:

- Correction/fine-tuning to compensate for discrepancies in colors from various manufacturers or models of cameras
- Correction/fine-tuning of on-set monitors to match color temperature of lighting
- Efficient color correction/fine-tuning for the editing process

12-axis color correction in real time

The DCC-7000 goes beyond typical RGB color correction to offer adjustment based on 12 colors. Hue and saturation can be adjusted in each of the 12 axis, making it easy to adjust specific colors in isolation. Enjoy advanced color correction from specialized hardware design with the convenience of real-time processing.

Includes a traditional color correction mode

A mode for conventional RGB correction is also included. After general adjustment in this mode, users can switch to more precise color correction in the 12-axis mode. Three color correction modes are available: Balance, Differential, and Sepia.

- Balance mode: RGB-based color correction
- Differential mode: Color correction maintaining white balance
- Sepia mode: Monotone color conversion

Note: 12-axis color correction is not usable when Sepia mode



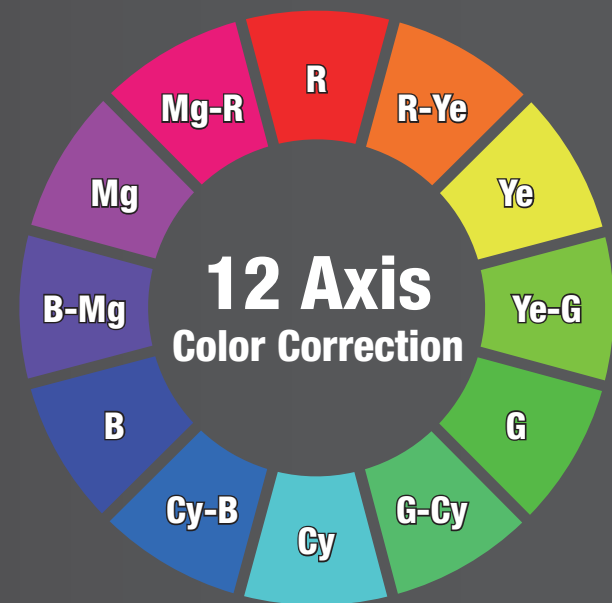
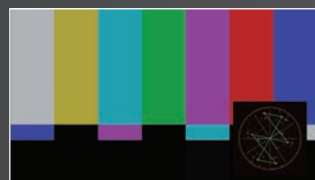
Balance mode: Provides correction of white-unbalanced pictures.

Differential mode: Provides correction without affecting white-balance.

Sepia mode: Provides mono-tone color effects.

Vector display

For precise color correction, video signals can be displayed using the built-in vectorscope. Detailed color adjustment is possible while viewing waveforms. Using multiple outputs, an alternative coordinate system can be displayed without displaying the main line.



Split before/after display

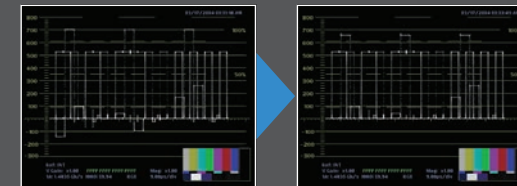
Images can be viewed before and after color correction together for comparison. Images can be displayed vertically or horizontally, for easy color correction while comparing the original image. Before and after images can also be displayed on individual outputs without using the split display.



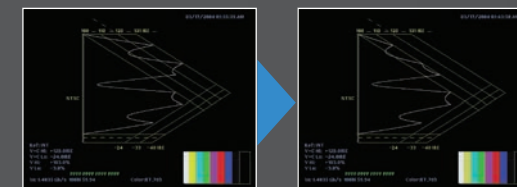
Clip Level functions

RGB and composite clip functions keep color information within the optimal range.

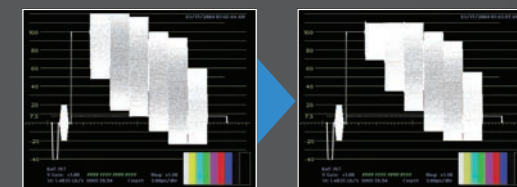
- RGB clip uses white clip and black clip functions to correct color information in video that is too bright or dark.



- Composite clip automatically adjusts color information in HD video to suit SD signal ranges while preserving the original appearance. By determining differences between color information in HD video and that available with SD video, color inconsistency in simulcasts can be instantly corrected.



Correct within SD color range



Correct within SD color range

Dedicated controllers

Dedicated controllers are available for more efficient color correction work. A tabletop controller provides direct access to parameters, and a portable unit is perfect for control in the field. Up to five controllers can be connected at once for simultaneous control.



DCC-70RU: Portable version for remote control

Dual independent outputs

Equipped with two HD/SD-SDI inputs and one analog composite input, the unit can process signals from one input at a time and switch between each signal as required.

The unit is equipped with two HD or SD-SDI outputs and one analog composite output. Using dual- outputs, one can be used for precise adjustment with before/after or vector display, while the other is used as the production output.

The analog composite output can be used with SD-SDI signal

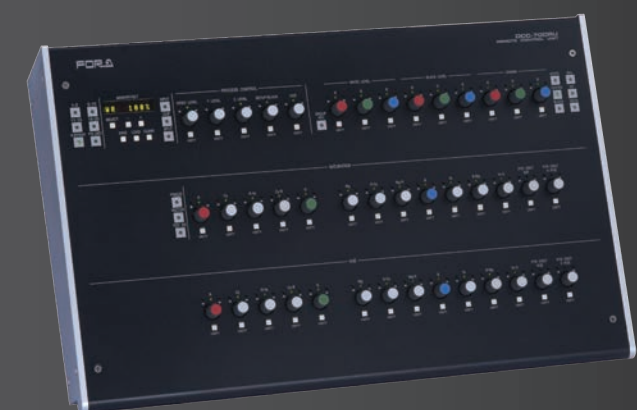
Event memory

Color-correction settings can be stored on the unit for instant recall of 100 events. Additionally, the unit's built-in browser can be used to export or save data to an external computer. This makes it easy to use the color corrector when correction settings are edited in the field.

Other features

Video processing controls for: video level, luminance level, chroma level, black level, and hue.

- Frame synchronizer (FS) functions: Frame Sync, Line Sync, and Input Sync modes.
- Embedded audio pass-through: Supports up to 16 channels of embedded audio. Audio is de-embedded before processing and then re-embedded afterward.



DCC-70DRU: Tabletop version