CCC-1

Standards Converter control

Support for broad range of OEM control panels

Compatible with AJA and Blackmagic Standards Converters

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Overview

The Broadcast Electronics CCC-1 is a unique device interfacing Sony Remote Control Panels (RCP) with Standards Converters including the AJA FS2, FS4 and Blackmagic Teranex range. Putting colour correction at the fingertips of vision engineers.

There are many situations where Standards Converters are used synchronise, scale and adjust the colour balance of a live video feed. The CCC-1 marries the familiar ergonomics of the Sony RCP with the colour correction features of Standards converters, enabling vision engineers to paint/shade any video source.

Features

Adjustment of master gain, RGB gain, master pedestal, individual RGB pedestal and gamma settings, saturation and sharpness can be controlled from the RCP.

Support for broad range of Sony Remote Control Panels

IP Ethernet connectivity between the CCC-1 interface and the Standards Converter.

Tally support on the RCP

Compact interface for space sensitive installations

Intuitive control interface with OLED display indicating data communication and connectivity status

Benefits

Colour correct, legalise and scale any video feed using Standards Converters.

Putting colour correction and the fingertips of the vision engineer with the ergonomics and familiarity of an RCP.

Instantaneous control of the colour corrector features without the need to log in to web interfaces or have the device physically in front of the engineers monitoring position.

IP connectivity means the CCC-1 can be integrated into existing networks or simple connected to a standards converter using a CAT5 cable.

With integrated tally support the vision engineer will always know when the colour corrected pictures are cut to line.

Applications

The systems primary application is to provide live colour correction and standards conversion of any video feed. In sports broadcasting the system might be used to legalise, colour balance and scale a POV minicam. By using this system it opens up the possibility of using almost any camera. Even those that do not ordinarily support remote paint control such as high speed cameras, action cameras or DSLR cameras.
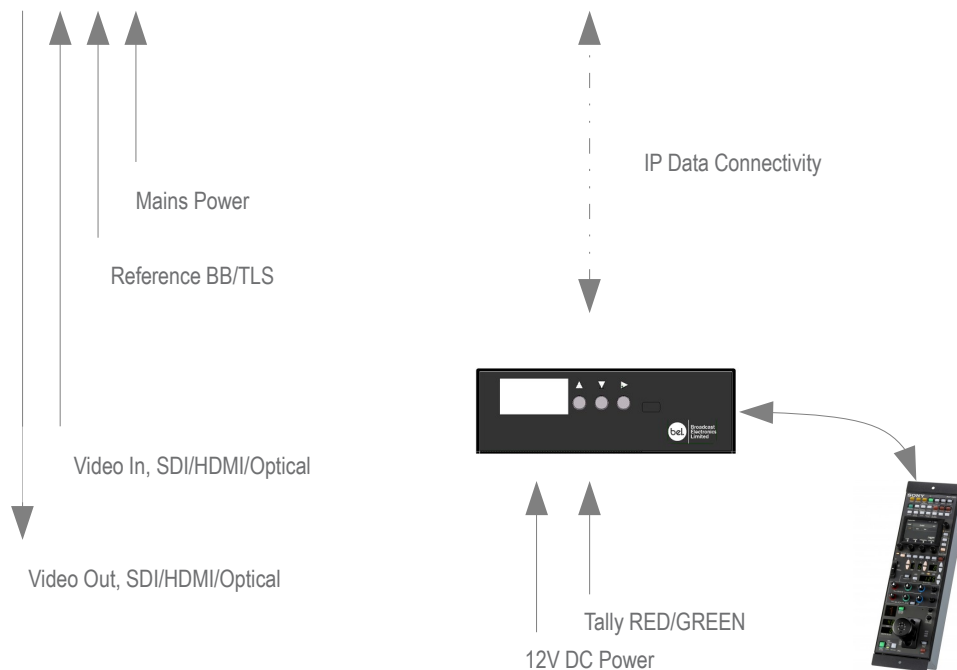
In addition to colour correction of live cameras, the system can be used to provide live colour correction to incoming programs such that they can be subtly tweaked to match another program. Particularly useful for news programs.

A further application might be to tweak the colours of in-vision monitors and projection. Vision engineers can quickly make adjustments to these feeds to make them appear the correct colour through a camera.

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System Diagram

Mains Power

Reference BB/TLS

IP Data Connectivity

Video In, SDI/HDMI/Optical

Video Out, SDI/HDMI/Optical

Tally RED/GREEN

12V DC Power

Interface Specifications

General			
	Min	Typ	Max
Power Supply	4.5V	12V	30V
Power Consumption	7W Including Control Panel		
Dimensions	118X70x38mm		

Input / Output	
RCP Serial Camera Data	9-Way D-Type Female RS232 / RS422, Power
Tally	XLR3 Female
Ethernet	RJ45 10/100Base-T
Upgrades	Mini USB
Power	XLR4 Male

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USB

RCP Serial Data Connector

Tally Inputs

RJ45

12V Power
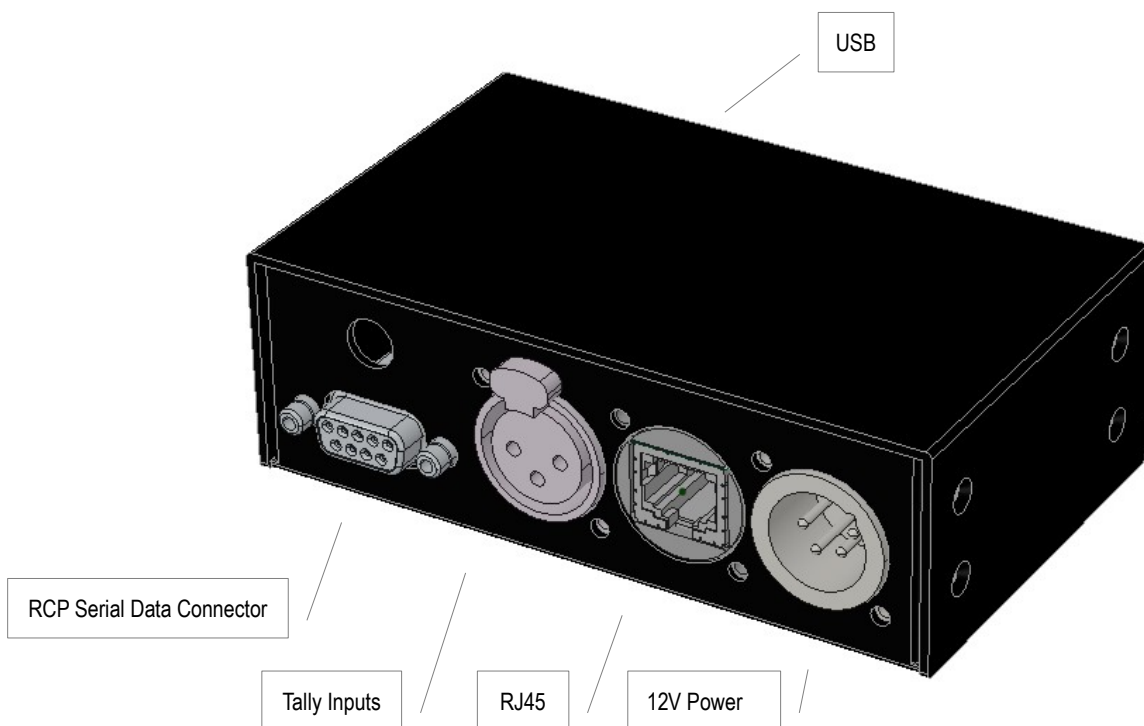
Supported Remote Control Panels

Sony

RCPs – RCP-1500, RCP-750, RCP-720, RM-B150, RM-B170. All other panels are untested.

Supported Standards Converters

AJA

FS2, FS4

BlackMagic

Teranex – AV, Express, 2D, 3D

For other OEM support please contact Broadcast Electronics Ltd.

Note: All Standards converters and Remote Control Panels are tested with known and recorded firmware version where possible. Broadcast Electronics Ltd. can not be held responsible for incompatibilities with other firmware (older or more recent). Please consult Broadcast Electronics Ltd. for details of specific firmware versions that are known to with individual OEM products. We advise all users test systems prior to use.

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