



Broadcast
Electronics
Limited

CCU-1

Universal camera control unit

Control multiple cameras from a single Remote Control Panel

Compatible with Dreamchip Atom camera range





Overview

The Broadcast Electronics Camera Control Unit (CCU-1) is a unique device interfacing Sony Remote Control Panels (RCP) with specialist cameras including the Dream Chip Atom One miniature camera range. This device allows vision engineers to make detailed adjustments to the cameras using a widely available RCP.

The Dream Chip Atom One cameras provide unprecedented image quality in formats up to 4K-HDR and in a range of different form factors. These versatile cameras incorporate sophisticated colour adjustments and can be configured to a level normally only found on traditional broadcast cameras.

Sports broadcasting in particular can rely heavily, sometimes exclusively on miniature cameras and camera control is an important consideration. The CCU-1 facilitates detailed control of multiple cameras by a single RCP. For applications where miniature cameras are used alongside Sony broadcast cameras the same type of control panel can be used for all cameras.

Features

RCP camera controls - master gain, shutter, auto exposure, individual RGB gain, master pedestal, individual RGB pedestal and flare settings, master gamma control, saturation, knee, white clip, detail and multi matrix

CCU-1 camera controls - format, HDR options and colour space

Multi-camera control from a single Sony RCP

Support for broad range of Sony RCP

RS485 connectivity to the camera

Tally support on the RCP

USB port for firmware upgrades

Benefits

Accurately adjust a broad range of key camera controls using the familiar menus and ergonomics of a Sony RCP. Engineers familiar with this panel can quickly and intuitively adjust Dream Chip Atom One cameras

Multi-camera support so one RCP can be used to control up to five cameras. Efficient and cost-effective way to support more than one miniature camera on a production

Robust RS485 connection to the cameras at a range of data rates. Easily converted for communication over IP or wireless modems.

Settings including format can be configured using the CCU-1. No need for a PC to configure the camera

With integrated tally support on the RCP the vision engineer will always know when the cameras are cut to line.

USB upgrade facility for supporting camera or control panel firmware updates and adding more camera types.

Applications

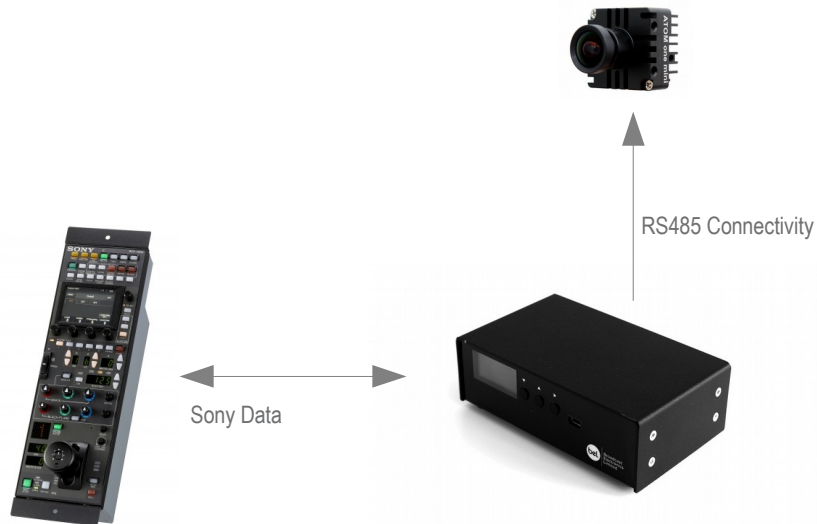
Specialist miniature cameras have a broad range of applications in sports, wildlife, concerts and reality TV. In a situation where it's not practical to use a traditional broadcast camera it can almost always be achieved using a miniature camera.

Some of the biggest sports productions rely on miniature cameras to achieve unique shots in the middle of the action. Typical applications in sports broadcasting include athletics field events, on-board cameras for motor sport, in-goal cameras, referee or even player cameras and UAV mounted cameras.

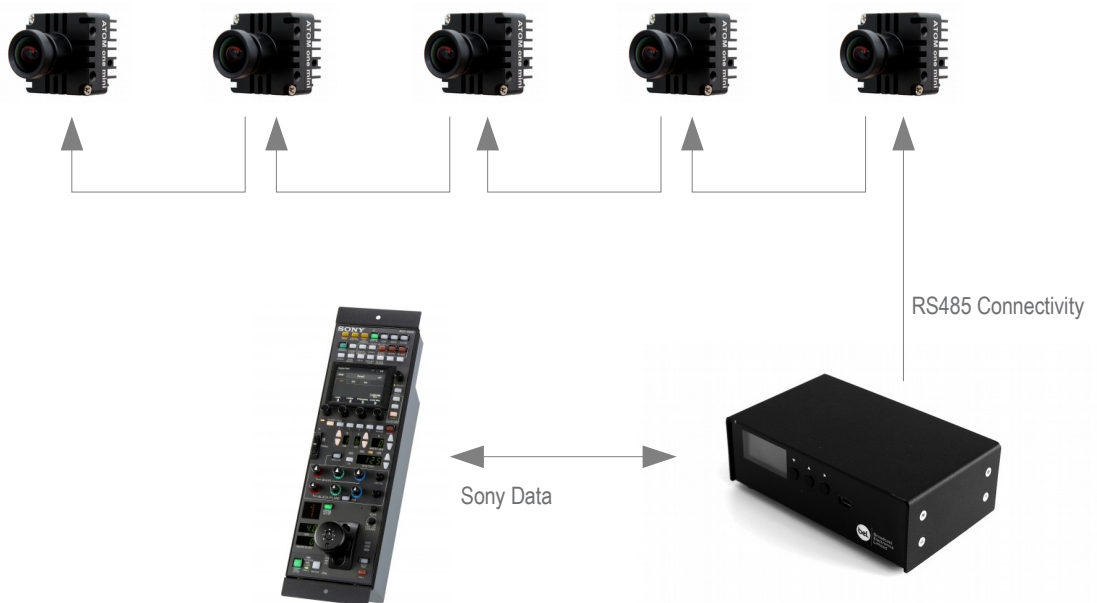
Many reality TV shows use miniature cameras for subtlety as they can be hidden away. For concerts miniature cameras can be placed close to the performance without impeding the audience view. Whatever the application, the cameras have the ability to put the viewer closer to the action.



Single Camera System

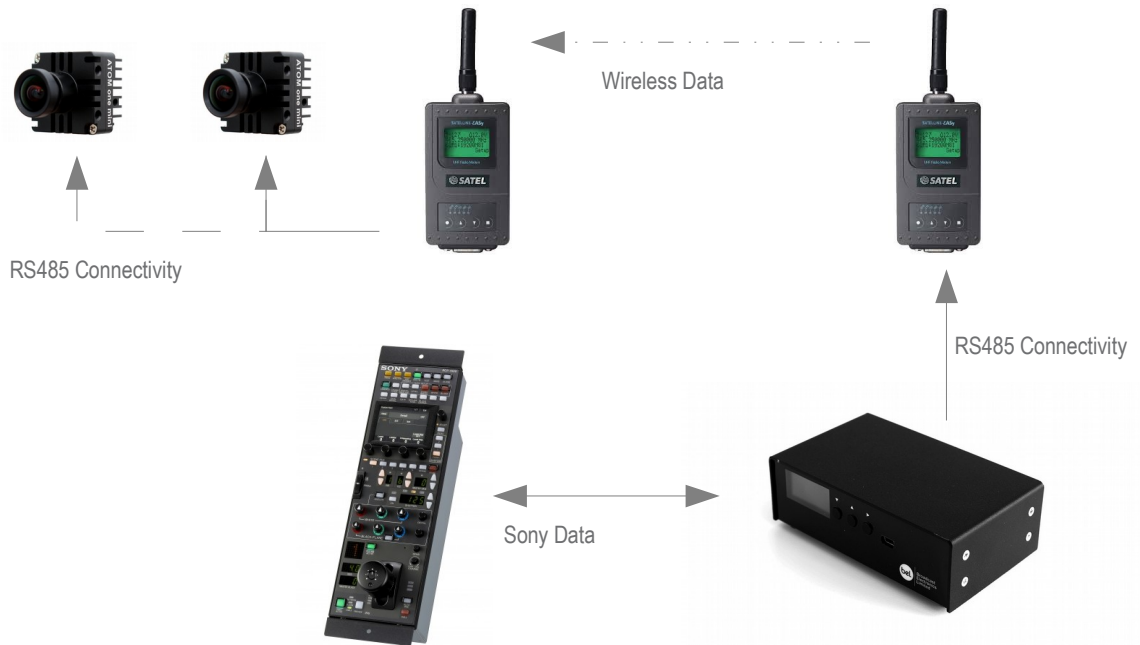


Multi Camera System (Up to 5 Camera Addresses)

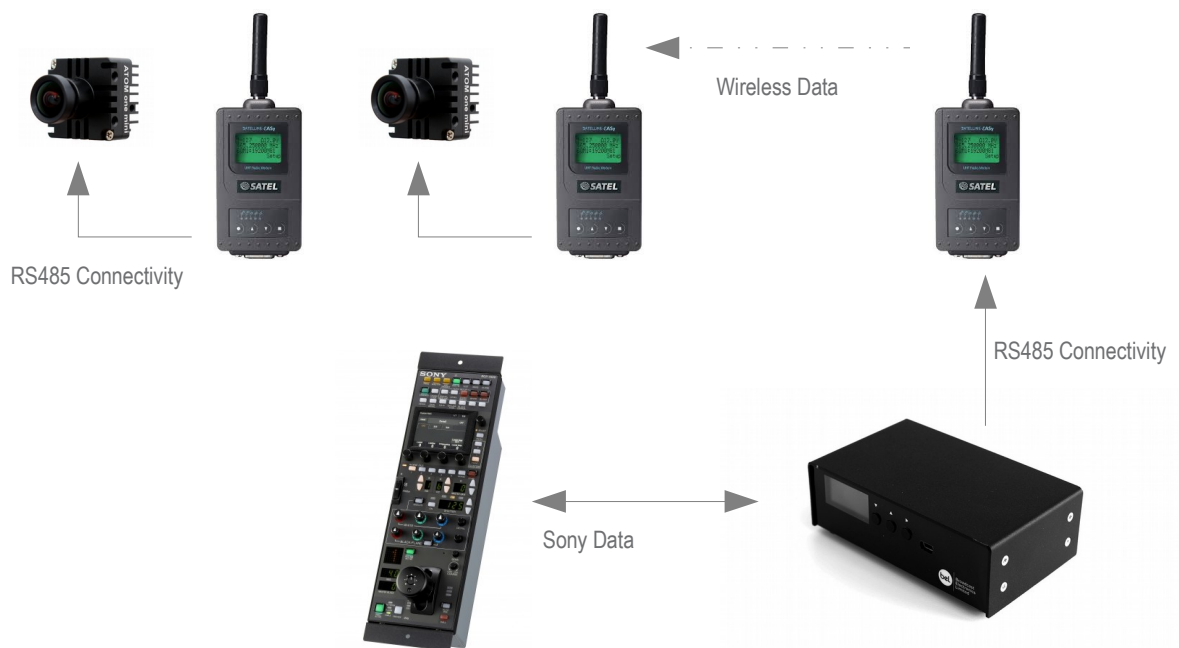




Wireless Camera Option 1 (Up to 5 Camera Addresses)



Wireless Camera Option 2 (Up to 5 Camera Addresses)





Interface Specifications

General

Power Supply	12V. Note : Must be 12V for RCP
Power Consumption	7W Including Remote Control Panel
Dimensions	118X70x38mm

Input / Output

RCP Data	9-Way D-Type Female RS422, Power
Tally	XLR3 Female, Contact Closure pins 2 +VE, 3 GND
RS485	XLR3 Male, 2 RS485+. 3 RS485-
Upgrades	Mini USB socket
Power	XLR4 Male, 4 +VE, 1 GND

CCU-1 | Datasheet





Supported Remote Control Panels

Sony

RCPs – RCP-1500, RCP-720. All other panels are untested but we have no reason to believe they will be compatible.

Supported Cameras

Dream Chip Technologies

Atom One, all models.

For other OEM support please contact Broadcast Electronics Ltd.

Note: All cameras 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 (old or new). Please consult Broadcast Electronics Ltd. for details of specific firmware versions that are known to work with individual OEM products. We advise all users test systems prior to use.



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Contact:

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