Remote Camera Panel Mk3

- Standard Size
- 4 Camera control
- Multiple camera types
- Mutliplexed control data

The **Remote Camera Panel** from *BR Remote* fits into a standard engineering desk with recessed connectors on the underside. It has the familiar engineer's joystick control, dedicated main controls and an assignable menu for multiple other parameters.

The controller can address up to 4 cameras, of different types (Sony, Ikegami, Panasonic, Hitachi, JVC, Bradley, etc.) with up to 99 cameras on a system. Camera type selection is via the menu and internal DIP switches set which 4 cameras are to be addressed. An **RD_12 Radio CCU receiver** (Cable or Radio) or a **Protocol Converter** (cable only) is required at each camera to communicate with each individual camera type.

Multiple **RCPs** can be cascaded onto the same data stream which is 9.6k baud, RS485 and can be readily sent via radio, TCP/IP networks or twisted pair cable making this a very flexible controller.

The main controls operate in the standard fashion with Master Pedestal, Iris and 'touch-down' on the joystick to switch the operator's monitor to the currently selected camera.

The sensitivity of the joystick can be adjusted and the whole panel can be 'locked' to prevent inadvertent adjustments.

Clear LED readouts display the major settings for each camera as it is selected; Iris, Gain, Shutter, Camera No. etc.

'Touch-down' knobs enable instant return to 'shutter OFF' and '0dB Gain'. Auto Iris is also selected with a touch down.

All the buttons and knobs on the panel are illuminated to a user adjustable level and each button illuminates brightly when selected.

The camera address range can be set to any 4 sequential cameras up to 99.

Tally light inputs via the built-n GPIO port, indicate above the selected camera and also each monitor switching output is indicated.

Assignable Menu

The Assignable Menu sets this RCP apart from others. To minimise the number of knobs and buttons and maximise the information display area, a user assignable menu is used for less often needed parameters. There are 3 instantly accessible menus, each with 3 adjustable parameters.

Each of these 9 parameters can be changed by the operator and put into any menu making it fully customisable to the operator preference.

4 Scene Files are available for each camera.

Connection Sockets

The sockets on the underside of the panel are recessed and angled to use the minimum of space under the panel.

Standard XLR connectors are used for both power input and for data output.

Additionally, there is a Dsub GPIO connector for triggering the tally lights and also for monitor switching outputs.

The 4 pin Hirose enables cascading of multiple RCPs onto a single data stream using a single power supply.

Radio CCU Control

An **RD_11** Data Transmitter can transmit to multiple **RD_12** CCU Receivers for radio CCU control.

Network Connectivity

Using *BR Remote* **RS485-to-IP** converters enables communication over TCP/IP networks.

Currently Available Controls

Iris, Iris Range, Auto Iris
Master Pedestal, Gain, Shutter, ECS Shutter, Bars
Gamma, Matrix settings 1 or 2 (Bradley)
Horizontal Detail, Vertical Detail
Scene Files A, B, C, D.
White Balance - Scene, PUSH, Auto Tracing, 5600K, 3200K
Auto Black Balance
Red Gain, Green Gain (Sony), Blue Gain
Red Pedestal, Green Pedestal, Blue Pedestal
Chromanance, Knee,
Output Standards (1080i/p/50,1080i/p/60, 720p/50, 720p/60, PAL 4:3/16:9, NTSC 4:3/16:9)
Filter Wheel, Filter Wheel 2 (Sony), Camera Menu Access
Tally output to cameras
Remote Relay Switching (used for lens heaters etc.)
Image Stabiliser On/Off
Zoom & Focus
Picture Invert & Flip
InfraRed On/Off

Iris Control Sensitivity, Panel Lock
Camera type selection
Camera select (any 4 sequential cameras up to 99)
Panel Backlight Intensity
Tally Inputs, Monitor select via GPIO

Other functions can be adjusted via the camera menu displays. Additional functions not supported on the standard panel can be included in the assignable function panel by arrangement with **BR Remote**.

Camera Models Supported

Currently the **RCP3** supports commands for the following camera models;
Sony (most models)
Panasonic (2 protocols)
JVC (LANC & Professional)
Ikegami
Hitachi
Bradley (all models)
AltaSens ALCM460
Grass Valley - TBA

Remote Pan & Tilt Systems

When used with **BR Remote** systems the RCP data is multiplexed onto the same data stream as pan, tilt and lens controls. This is extremely efficient and can reduce the number of links to just 1 single data path (or radio link) to the remote cameras for complete control of camera CCU, pan and tilt, lens and any other required functions.

Using either a **BR Remote** switcher or off-the-shelf RS485-to-IP converters enables communication over TCP/IP networks.

Electrical Specifications

Power: 8 - 15v DC, 2 watts.

Mechanical Specifications

Height 353mm, Width 100mm, Depth under panel 90mm (including plugs)

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