



Instructions

Mini RCP3

Operating Instructions



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Camera type selection
Camera select (any 4 sequential cameras up to 99)
Backlight Intensity
Zoom / Focus Generator

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 Bradley Engineering.

Connections & Pinouts

XLR4 - Power input

Pin 1 = GND
Pin 2 = Data A (RS485)
Pin 3 = Data B (RS485)
Pin 4 = +12v

XLR3/4 - Data Output

Pin 1 = GND
Pin 2 = Data A (RS485)
Pin 3 = Data B (RS485)
Pin 4 = + 12v (XLR4 only)

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Shutter, Iris, Gain

Situated in the central section of the panel are the controls and displays for Shutter, Iris, and Master Gain.

Each of the knobs can be rotated or pushed down. Rotation adjusts the value which is then displayed by the LEDs.

Touch down on the '**Shutter**' knob switches the shutter OFF. (1/50 or 1/60 sec in most cameras)

Touch down on the '**Iris**' knob switches the camera to **Auto Iris** (if supported). The Iris display will also display if BARS are selected.

Touch down on the '**Gain**' knob switched the gain to 0dB.

Camera Selection and Display

The '**Camera Select**' buttons are used to select one of 4 cameras. The selected camera is displayed in the LED display. Any 4 sequential cameras in the range 1 -99 can be controlled by the panel.

Internal DIP switches select the first camera in the range as a binary number. For example; all switches OFF except switch 3 ON is the binary representation of 4. The panel will then control cameras 4 - 7.

Test Pattern

There is a '**Bars**' button above the '**Camera Select**' buttons. Press this for 2 seconds to select colour bars ON. A short press selects colour bars OFF.

Currently Available Controls

Iris, Auto Iris
Master Pedestal, Gain, Shutter, Bars
Gamma, Aperture Correction (Detail)
Scene Files A, B, C, D.
White Balance - Scene, PUSH, Auto Tracing, 5600K, 3200K
Auto Black Balance
Red, Green and Blue Gain
Red, Green and Blue Pedestal
Output Standards (1080i/p/50, 1080i/p/60, 720p/50, 720p/60, PAL 4:3/16:9, NTSC 4:3/16:9)
Filter Wheel, Camera Menu Access
Sync phase adjustments
InfraRed On/Off
Plus others as developed

Introduction

The **Mini Remote Camera Panel Mk3** is a small 'desk top' RCP offering operational control of a variety of cameras from various manufacturers. Up to 4 cameras (from a total of 99) can be controlled from one panel. Each camera requires a 'Protocol Converter' or Radio CCU controller to integrate with the camera. These convert the data from the RCP into the matching data for the camera type.

The camera type is selected from the menu and the parameters particular for that camera then become available. For example: Sony cameras have a 'GREEN Gain' adjustment but most other makes have only BLUE and RED Gain.

Current Camera types;

Sony
Ikegami
Hitachi
Panasonic
Bradley
JVC
AL-CM460
Others becoming available by customer demand

The panel is designed to be free standing on a desk or table with the 2 connectors at the back.

The unit employs our proprietary membrane panel technology with user adjustable backlighting and individual illumination of all buttons and knobs.

Power & Data

Power is supplied to the unit via the male XLR4 socket on the back end. 12 - 16 volts DC. The unit generates RS485 data which is output on the adjacent XLR3 or XLR4 socket. The cable length for the RS485 output can be up to 1km using good quality balanced cable for the data pair.

Tally Inputs

Tally light inputs are **not** provided on this unit. For tally inputs and touchdown outputs the standard **Remote Camera Panel Mk3** is required.

Monitor Switching

Monitor switching is **not** provided on this unit. For monitor switching touchdown outputs the standard **Remote Camera Panel Mk3** is required

Multiple Panels

Multiple panels are **not** supported with this unit. For multiple panel support the standard **Remote Camera Panel Mk3** is required

Assignable Functions

The unique feature of the panel are the Assignable Menus. There are 3 menus, each with 3 adjustable parameters. The 3 menus are selected by simply pushing down the appropriate menu button.

Any knob in any menu can be assigned to any available parameter enabling the operator to customise the 3 menus. As supplied, some of the parameters are as follows;

Menu 1

Red Gain, White Balance, Blue Gain

Menu 2

Red Pedestal, Master Pedestal, Blue Pedestal

Menu 3

Detail -----, Gamma



To assign a different parameter to a knob simply push down on the knob and rotate it to change the function. When the knob is released the knob now controls the parameter shown. If the function requires a switch action a brief touch down on the knob toggles the switch action.

Numeric values are sent as the knob is rotated. Other values e.g. White Balance Modes are only sent when the knob is pushed.

The panel sends unidirectional commands to the cameras but memorises all the sent values for the 4 cameras selected and recalls these values when each camera is selected. It also automatically stores these values whilst powered off and recalls all values and the knob settings when powered up.

Because all the functions are software generated, additional functions can be added as required and updates are simply a matter of replacing one, plug-in chip.

Configuration

The centre knob has additional configuration parameters. The additional settings are;

Camera Model	Sony, Ikegami, Panasonic, Hitachi, Bradley, etc.
Backlight Adjustment	Level 1 - 10 for low light visibility
SDI/HDSI format	Some cameras support multiple formats
Zoom Focus generator	Allows temporary control of zoom & focus for line up