Utah Scientific

National Park Service Photo

Router Control Panels
UCP-Series

UCP Router Control Panels

The Standard UCP Series provides a traditional feature set along with a wide array of powerful and cost effective panels.

Utah Scientific's Ucon GUI configuration software enables programming of UCP control panels. A software emulation enables users to program the panel simply by dragging and dropping sources, destinations, groups, and functions onto each button. Copy and Paste is available to duplicate when needed. Users are also able to program panels for immediate use, or capable of saving configurations for a more convenient time.

UCP Features

- LCD Switches with High-Resolution displays
- Multi-color LED illumination of buttons
- Intensity adjustments for superb legibility under all lighting conditions
- User configurable menu driven operation
- Easy set up via Ucon software, with the ability to customize each application
- 8 character, alphanumeric LED status displays
- Ability to restrict access to certain sources and destinations
- Multi-level switching capability
- Output Protect/ lock options
- Flexible connection options - Ethernet, U-net or both with CAT-5 cabling
- Audio attribute switching and status
- Salvo Execution - making multi-bus salvos are just as easy as single source selection
- Monitor matrix bus control
- Console mount available on many models

UCP-MM/A/E
Multimode with full X-Y and dynamic
16 button LCD Keypad

The UCP-MM/A/E is a full-matrix X-Y panel used to route any source to any destination, with full, 16-level breakaway. The panel's four touchscreen LCD display panels offer highly legible read-out of levels, sources, destinations, or router status, and the 16 selector buttons each have an eight-character LCD display.

In the X/Y mode, the panel offers two LCD displays giving page views of destinations. Multiple pages are available, with each page containing 12 user-assignable destinations. Takes can be made directly in these displays, with scroll-up and scroll-down buttons for easy navigation. The panel also features a button-per-source mode for switching sources quickly to the selected destination. Multiple pages are available, with user-assignable sources using the scroll buttons.

UCP-36/E
64 user-programmable buttons

With 36 buttons, the UCP-36/E is typically configured as a button-per-source panel for direct switching up to four destinations and multi-level breakaway. This panel is generally used in applications that require fast, simple access to a limited number of sources. For special applications, the UCP-36's buttons can be programmed as source, destination, salvo, or level-select buttons. This allows the panel to be set up for any combination of 44 selections. An extender panel, CX-36, is available to add 44 more buttons if required.

Universal UDS-GPIO
16 GPI and 16 GPO

The UDS-GPIO is a universal GPIO unit that can operate with any Utah Scientific control system. Its functionality duplicates that of the UCP-GPIO/E, allowing mapping of individual contacts to a specific source-destination combination. Latching and revert (joystick override) modes are also included. The UDS-GPIO does not utilize Ucon Utah configuration software but instead provides an internal web server that operates with standard web browsers for simple setup. With its small footprint, the unit can be placed in a discrete location.

UCP-GPIO/E
16 GPI and 16 GPO

The UCP-GPIO/E provides the means to extend any Utah Scientific router control system to external devices by means of contact closures. The 16 in-bound contact closures (GPIs) are opto-isolated for ease of installation. These contacts can be configured for latching or momentary operation, and they are programmable for mapping the individual contacts to specific source-destination combinations.

In momentary operation, the crosspoint associated with that contact is activated as long as the closure is active. When the closure is released, the router output is switched back to the input that was selected before the closure was activated. This mode of operation is generally referred to as "Joystick Override" mode.

The 16 outbound closures are provided by relays, allowing external devices such as tally lights or other indicators to be activated when a specific source-destination combination is active in the router.

Rear View of 2-RU and 1-RU control panels

Flexible connection options include Ethernet or U-Net (Utah Scientific's network that enables serial looping of panels) using standard CAT-5 cabling. In critical applications, UCP panels provide unique redundancy by allowing both connection methods; in the event of an Ethernet or U-Net failure, the panel automatically switches to the alternate connection mode.

Hardware Panel Specifications

Connection

(1) RJ-45:	10/100 Ethernet
(2) RJ-45:	Looping U-Net
	(Utah Scientific control network)
(1) 422/232:	DB-9F Subminiature
	Utah Scientific RCP-1 serial protocol
(1) RJ-45:	Diagnostic port
(1) RJ45:	Can Exp port - panel expansion

Connection Using GPIO Terminal Blocks

(8) Detachable blocks with push release

Power

100-240VAC 50/60Hz
Power consumption less than 15 watts

Physical Rack Mount

Width:	19" (48.26cm)
Depth:	5.5" (14cm)
Height:	1RU, 1.75" (4.45cm)
	2RU, 3.5" (8.9cm)
Weight:	1RU, 3.5lb (1.6kg)
	2RU, 5lb (2.27kg)

SoftPanel-2 Specifications

Processor	Pentium 4 (1 GHz)
Operating System	Windows XP, 7, 8
RAM	Windows XP, 1GB / Windows 7,8, 4GB
Hard Disk Space	10MB
Display	1440x900 (WXGA+)
CD-ROM	CD
Ethernet	10 Megabit

Physical Console Mount Electronics Chassis

Width:	19" (48.26cm)
Depth:	5.5" (14cm)
Height:	1RU, 1.75" (4.45cm)
Weight:	1RU, 3.5lb (1.6kg)
	2RU, 5lb (2.27kg)

Button Panel

Width:	19" (48.26cm)
Depth:	3" (7.6cm)
Height:	1RU, 1.75" (4.45cm)
	2RU, 3.5" (8.9cm)

Environmental

Operating temperature 32-104 degrees F (0-40 degrees C)
Relative humidity range: 0-90%, non-condensing