OCEAN MATRIX®

Instruction Manual

OMX-PSWFWC

6-Pin IEEE 1394 FireWire Smart A/B Switcher

Thank you for purchasing this Ocean Matrix component. This unit is designed to give you years of trouble free professional operation for your most demanding applications. It is our goal to develop long term partnerships with our customers through our commitment to exceed their expectations.

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OMX-PSWFWC

6-Pin IEEE 1394 FireWire Smart A/B Switcher

The **OMX-PSWFWC** is a “Smart A/B Switcher” for firewire DV media signals: Designed to work with the entire family of “Smart Switchers”, the **OMX-PSWFWC** provides front panel A-B switching and can also be controlled from any other Smart Switcher, a remote hand held control: PSW-REM, or any GPI(General Purpose Interface) equipped device. The product is designed for MEDIA DV signals only(100Mbps) and is not intended for use with power managed peripherals such as printers, hard drives, scanners or any IEEE1394 power managed device. The **OMX-PSWFWC** uses high quality 6 pin IEEE1394 receptacles and is to meet the utility requirements of the modern DV media environment.

Note: The **OMX-PSWFWC** is designed to handle IEEE1394 (FireWire) 100Mbps media data signals only. The product was not designed for IEEE1394 peripherals such as hard drives, scanners or printers which require power management protocols.

Some equipment such as cameras may have to be powered down before switching, and then power back on afterwards. The **OMX-PSWFWC** should not be used as a “HOT SWITCH”. It should be used as a data selector.

External Control (GPI)

The OMX Series Smart A/B Switchers can be controlled by either dry contact closure or by providing a ground signal to the 5-Pin DIN Tally IN Connector. Follow the pin-out below.

Pin#	Function
1	No Connection
2	Trigger In
3	Frame Ground
4	12 Volt In (not needed if powerpack is used for power)
5	No connection

To externally trigger the unit, short Pin 2 and 3 with a dry contact closure or provide ground level to Pin 2 (provided ground must be tied to pin 3).

Specifications

Inputs-Outputs:	6-Pin IEEE1394 receptacles vertical mounted
Controls:	REMOTE-LOCAL: Toggle for selection of operational mode
	A-B : Toggle for A or B input Selection
Status Display:	LED confirm of A or B selection.
Tally Connector:	5-Pin DIN connector for Tally IN and Tally Out
	Used for remote control and Cascade Configurations
Power:	12Vdc 500mA external powerpack
Dimensions:	8.25"W x 1.625"H x 6"D
Options:	1RU rackmount adapter: hold 2 units: OMX-RK1
	Tally Control cables - 2 foot, 4 foot, 8 foot and 20 foot

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Safety Precautions

1. To prevent fire or shock hazard, do not expose this equipment to the environment of Humidity and/or dust. Do not use this equipment in an unprotected outdoor installation or any area classified as a wet area.
2. The operating temperature of this product must be kept between -40°C and +95°C. Direct sunlight or an intense source of heat, direct or ambient, must not be introduced to the product either by induction or contact.
3. Always keep the product on a stable and secure base or enclosure. Do not drop the product or subject it to sudden heavy impact.
4. Provide adequate ventilation so that thermal characteristics do not cause an increase in product temperature to resulting in overheating.
5. Do not clean the unit by using electrically conductive or corrosive chemicals. Always be certain to unplug the unit from AC wall power before any major cleaning. Use a damp cloth only for cleaning.
6. Do not subject the product to electrical mains power over voltage: The product must be used at the rated supply voltages indicated on the product rear panel only.
7. Do not plug the product into an overloaded electrical outlet. This may result in fire or electrical shock.
8. Object Ingress and Liquid Entry: Never insert or push sharp metal objects into the product or use such devices for an attempt at opening or servicing the product. Servicing should be referred to a trained and qualified technician only. Do not allow liquid of any type to enter the unit. Do not allow the unit to be submersed in water as this may cause a shock hazard.
9. A trained qualified technician should perform all servicing of the unit. There are no serviceable components within the unit for user access.

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