OCEAN MATRIX®

Instruction Manual

Thank you for purchasing an 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.

OMX-4012

For Repair Information and to view the entire Ocean Matrix product line, please visit our web site.

www.oceanmatrix.com

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1 Introduction

Congratulations on purchasing your OCEAN MATRIX® **OMX-4012** *4x1 VGA / XGA Switcher*.

The **OMX-4012** *4x1 VGA / XGA Switcher* is ideal for the following applications:

- Any professional display system requiring simple four way input selection
- Multimedia and presentation source selection
- Remote monitoring of computer activity in schools and businesses

2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this instruction manual

3 Overview

The **OMX-4012** *4x1 VGA / XGA Switcher* is a mechanical 4x1 switcher for VGA/XGA signals.

In addition, the high performance **OMX-4012**:

- Is designed to route one of up to four inputs to one output using 15 pin HD female connectors
- Can also route one input to any one of up to four outputs when functioning as a *1x4 VGA / XGA Switcher* (its passive design supports backward operation)
- Has a bandwidth exceeding 750MHz, ensuring transparent performance even at the highest resolution UXGA modes (1600x1200)
- Includes high quality switching components that provide excellent isolation between inputs
- Is extremely rugged and dependable. Its unpowered, passive design is an advantage in applications where various regulatory compliances would otherwise be required. The passive "hard-wire" signal path can also switch other signal formats

Achieving the best performance means:

- Connecting only good quality connection cables, thus avoiding interference, deterioration in signal quality due to poor matching, and elevated noise levels (often associated with low quality cables)

- Avoiding interference from neighboring electrical appliances that may adversely influence signal quality and positioning your **OMX-4012** in a location free from moisture and away from excessive sunlight and dust

4 Your VGA / XGA Switcher

Figure 1 and Table 1 define the **OMX-4012**:
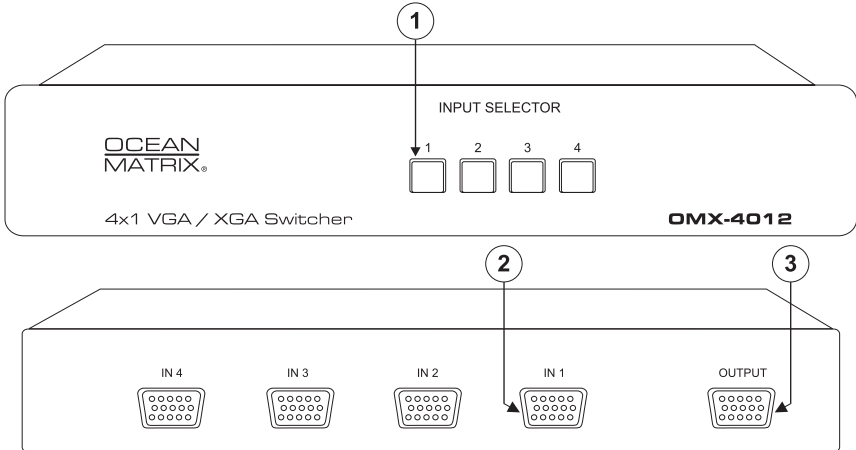
Figure 1: OMX-4012 4x1 VGA / XGA Switcher

Table 1: OMX-4012 Front and Rear Panel Features and Functions

#	Feature	Function
1	*INPUT SELECTOR* Buttons	Select the VGA / XGA source from 1 to 4
2	*INPUT* VGA / XGA Connectors	Connect to the VGA / XGA video sources from 1 to 4
3	*OUTPUT* VGA / XGA Connector	Connects to the VGA / XGA video acceptor

5 Connecting the VGA / XGA Switcher

To connect an **OMX-4012** *4x1 VGA / XGA Switcher*, do the following:

1. Connect up to four VGA / XGA sources to the VGA / XGA IN connectors.

2. Connect the VGA / XGA OUTPUT connector to a VGA / XGA acceptor.

3. Press an INPUT SELECTOR button to route that VGA / XGA source to the acceptor.

6   Technical Specifications

Table 2 includes the technical specifications:

Table 2: OMX-4012 4x1 VGA / XGA Switcher Technical Specifications

INPUTS:	4 VGA / XGA on HD 15F connectors
OUTPUT:	1 VGA / XGA on an HD 15F connector
VIDEO BANDWIDTH:	750 MHz -3dB
SWITCH CONTROL:	Four front panel switches
CROSSTALK:	< - 58dB at adjacent channels @ 10MHz
COUPLING:	Direct
DIMENSIONS:	25.5cm x 10.2cm x 4.5 cm (10" x 4" x 1.8"), W, D, H.
WEIGHT:	1.1 kg. (2.4 lbs.) approx.