

# **Vector Node**



Copyright © 2007 Compulite Systems (2000) Ltd. All rights reserved.

This guide is delivered subject to the following conditions and restrictions:

This product or document is protected by copyright and distributed under licenses restricting its use, copying, distribution and decompilation. No part of this product or document may be reproduced in any form by any means without the prior express written authorization of Compulite Systems (2000) Ltd. and its licensors (if any). Information contained herein is subject to change without notice.

Document version

1a.0

August 2007

from Vector software version 3.15

## Overview

Vector Node is 19" x 2U rack-mount unit that serves as a:

- Designer station for examining console displays and viewing live data. (requires external monitor, a keyboard, and a mouse).
- Multi user station that functions as an independent console.
- Tracking back up (slave) unit, which tracks the main console and takes over in the event of a main console failure (requires ePort to output DMX).
- Stand alone replay unit that automatically runs pre-programmed shows independently or in synchronization with SMPTE, MIDI, etc.(requires additional hardware).

Vector Node runs Vector PC software and has all the functionality of a Vector PC.

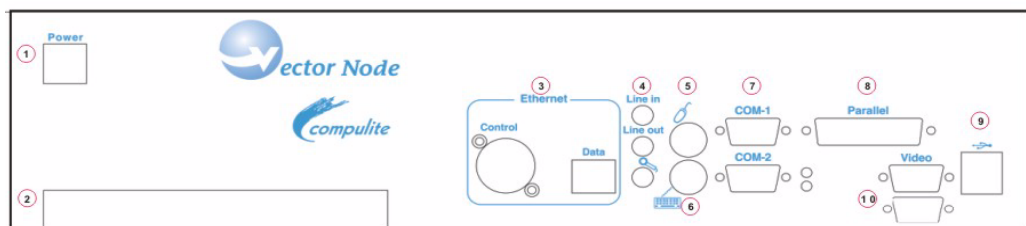


Figure 1: Vector node front panel

| No. |                         | No. |                 |
|-----|-------------------------|-----|-----------------|
| 1   | Power switch            | 6   | PS2 Keyboard    |
| 2   | CRW/DVD drive           | 7   | 2 x Com ports   |
| 3   | 2 x Ethernet connection | 8   | 1 parallel port |
| 4   | Line in/out (not used)  | 9   | 2 x USB         |
| 5   | PS2 Mouse               | 10  | 2 X VGA output  |

Standard hardware includes:

- Intel Pentium 4 2.8 GHz, 512 DRAM processor
- 40GB, 3.5" hard disk
- Internal 100 -240V switching power supply unit

The optional integral hardware includes:

- Up to 2 x ePort (4 x DMX output ports, 1 x DMX input port per ePort)

**OR**

- 1 x ePort and 1 x SMS (SMPTE, MIDI)

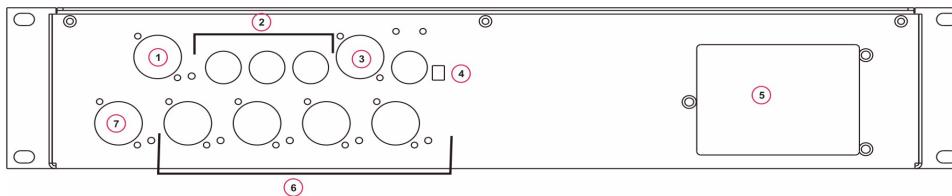


Figure 2: Back panel when optional hardware is installed

| No. |                                | No.   |                    |
|-----|--------------------------------|---|--------------------|
| 1   | SMPTE                          | 5   | Mains power        |
| 2   | MIDI In/Out/Thru               | 6   | DMX Out 1, 2, 3, 4 |
| 3   | Audio                          | 7   | DMX In             |
| 4   | Internal speaker on/off switch | <b>Note:</b> If Vector Node is supplied without the optional internal ePorts or SMS card, only the mains input appears on the back panel. |                    |

Optional external devices include:

- Vector Editor Wing
- Vector Channel Wing
- Vector Playback Wing
- Up to 2 monitors
- Keyboard
- Mouse

## **Output DMX via the Vector Node**

As the Vector Node runs Vector PC software it is necessary to enable VCs for DMX over Ethernet transmission.

### **To configure the Vector Node to output DMX**

- 1** Go to Tools menu ► Settings and open the Communication tab.
- 2** Tap **VIRTUAL CONNECTORS** (VCs) to enable DMX over Ethernet transmission.

---

## **Connection and configuration**

### **Connecting the Vector Node**

The Vector Node connects to Vector consoles via the standard Ethernet network.

On connection the show running on the Vector console is automatically downloaded to the Vector Node. Changes in show data are monitored and immediately updated on the Vector Node.

### **To connect the Vector Node to console**

Connect the control ports (Vector and Vector Node), using a crossed-linked Ethernet cable. (Recommended)

**OR**

Use an Ethernet switching hub. Connect both Vector and Vector Node to the hub using standard Ethernet cables from the Data port on each unit.

## **Setting the IP address**

### **To set the IP address**

- 1** Tap the Tools menu and choose Settings.  
The System Settings dialog box opens.
- 2** Go to the Communications tab.

- 3 Make sure the network ID in the master console and the Vector Node is identical.
- 4 Tap **OK**.

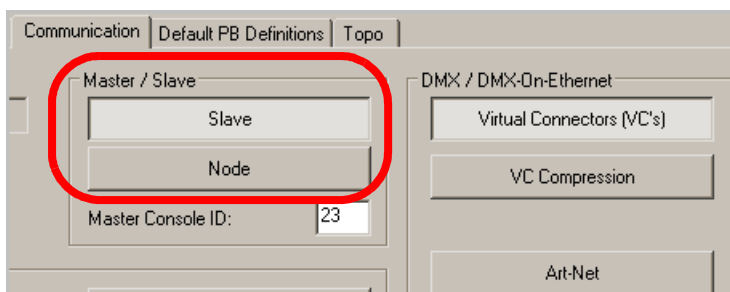
### **Configuring the internal ePort**

The optional ePort installed in the Vector runs the C-Net Manager software. Use the C-Net Manager to configure the DMX universes and Ethernet VCs. For more information, see the C-Net Manager documentation.

### **Setting operation modes**

Vector Node can be configured as:

- **Node** Choose this setting when using Vector Node as:
  - A designer station
  - A replay (stand alone) unit
- **Slave** Choose this setting when using Vector Node as a back up unit.



*Figure 3: Vector Node configuration in the Settings dialog box*

## Vector Node as a backup (slave) unit

When using Vector Node as a slave unit (requires the optional ePort hardware) connect DMX cables to the ePort and run the ePort via virtual connectors. In case of a main console failure there is no need to begin switching DMX cables.

---

**ATTENTION!** Make sure Virtual Connectors (VCs) are enabled in the main console, as the slave/ node adopts the settings from the master console.

---

### *To configure Vector node as a backup (slave) unit*

- 1 Go to Tools menu ► Settings and open the Communication tab.
- 2 Tap **SLAVE** in the Master/Slave group.
- 3 Enter the master console ID number.
- 4 Tap **OK**.

The dialog closes and Vector Node operates as back up slave unit to the master console.

## Vector Node as a replay or designer unit

Vector Node can run as a:

- Video node, which allows the lighting designer or stage manager to examine the show and see live output data without interfering with the programming.
- Replay unit that can run the show independently of the console when triggered manually or run using SMPTE or MIDI.

### *To configure Vector node as a replay or designer unit*

- 1 Go to Tools menu ► Settings and open the Communication tab.
- 2 Tap **NODE** in the Master/Slave group.
- 3 Enter the master console ID number.
- 4 Tap **OK**.

The dialog closes and Vector Node operates as a stand alone designer station or replay unit.



**Compulite Systems (2000) Ltd.**  
9 Hanagar St. Neve Ne'eman B Industrial Zone Hod Hasharon, 45421, Israel  
Tel: 972 9 744 6555 ~ Fax: 972 9 746 6515 ~ [www.Compulite.com](http://www.Compulite.com)