

2 *General Information*

Introduction

If you have not had experience with video tape editing, Editing Systems, or with Editware, Inc., please take a few minutes to get acquainted with this manual. Also, we recommend that you read all step-by-step instructions through at least once before performing them.

About The Manual

Your VPE-300 Series Editor is self-contained and this is the Installation Instructions manual for it. The manual is part of a Manual Set shipped with your Editor. A list of available manuals can be found at the front of this book. For ease of use, the manual is divided into topical sections. Sections are identified and briefly described below.

General Information - This section provides introductory material about your Editor. It includes a description of the Editor and its specifications, power requirements, and environmental & safety information.

Installing The Editor - This section gives you step-by-step instructions on installing your Editor. It has cabling information and a start-up procedure.

Glossary - The Glossary is an alphabetical listing of terms used in the manual which you may not be familiar with. This includes acronyms.

The manual may also contain one or more appendices, which are supplemental information included as a convenience for you.

Manual Conventions

Items of discussions within a topic are indicated by titles in the right-hand column. Pages, figures (illustrations), and tables are numbered to reflect the section of the manual within which they are located. For example, in this section, page, figure, and table numbers begin with 2-.

NOTE: *At this point, you may want to go directly to Installing The Editor (the next section) and return to this section at the completion of installation. However, it is recommended that you become more familiar with your Editor by continuing with this section.*

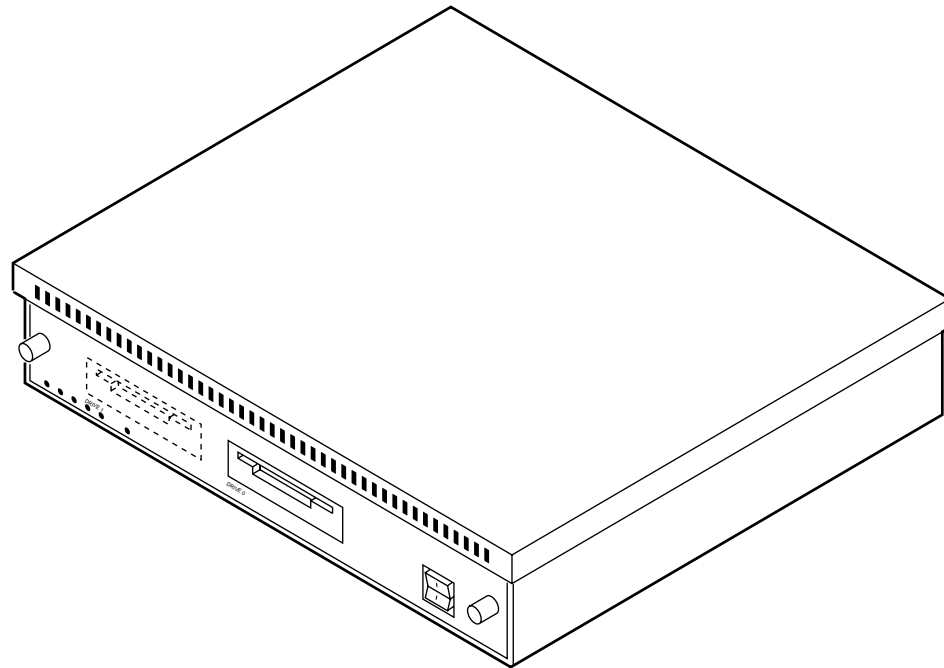
Editor Description

Your Editor is designed to control videotape machines, video switchers, and audio mixers in a post-production environment. It can also control other devices such as a printer. The Editor consists of a Computing Chassis and a Keyboard, and, for the VPE-351, an Expansion Chassis. A color monitor is required (purchased separately from Editware and an optional printer may also be used.

Computing Chassis

The Computing Chassis, illustrated in Figure 2-1, houses the following components of the Editor:

- Single Board Controller
- Fan
- DC Power Supply
- Backplane



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Figure 2-1. Editor Computing Chassis

Single Board Controller (SBC)

The Single Board Controller, mounted inside the Computing Chassis, contains the controller and data processing circuitry for the Editor. It contains all the controls and indicators (except power ON/OFF) for the Editor.

Hard Drive

All VPE models use a Hard Disk Drive, mounted on the SBC board, for long term EDL storage.

Floppy Disk Drives

Two 3.5-inch floppy disk drives, mounted on the SBC board and designated DRIVE 0 (DF0) and DRIVE 1 (DF1), are standard equipment. The Drive fronts extend through the front panel for easy insertion and removal of floppy disks, and viewing the Run indicator LED on the drives' fronts. They are designed for use with 720K double-sided micro-floppy disks (or diskettes).

NOTE: Do not use high density (1.4Mb) diskettes.

Fan

Cooling the Computing Chassis interior is accomplished by a fan mounted on the rear panel. Fan power is +12 VDC from the DC Power Supply through the Backplane. Ambient air is drawn in through a filter in the front and warm interior air is exhausted out the rear of the chassis.

DC Power Supply

The DC Power Supply is mounted on the right-hand side of the Computing Chassis. It receives 115/230 VAC power from the AC line connector on the Input Power Filter Housing at the rear of the chassis. The Power Supply provides the +5 and ± 12 VDC voltages required by the Editor. These outputs are distributed to other components through the Backplane.

Backplane

This is a printed circuit board mounted vertically at the interior rear of the chassis. The interior side of the Backplane has connectors which interface power and signals for the Computing Chassis components. For all the Editors, inputs/outputs for external devices are interfaced to the Backplane by connectors attached to its exterior side. These connectors extend through slots on the rear panel. For the VPE-351, the Expansion Chassis provides additional interfaces for external devices.

Figure 2-2 shows the rear panel of the Computing Chassis. Backplane connectors provide signal interfaces between the Computing Chassis, the Keyboard, the Monitor, peripheral devices, and, for the VPE-351, the Expansion Chassis. Backplane Connectors are:

- Fourteen (14) 9-pin D connectors
- Two (2) BNC connectors
- A Serial I/O connector.
- A GPI terminal strip

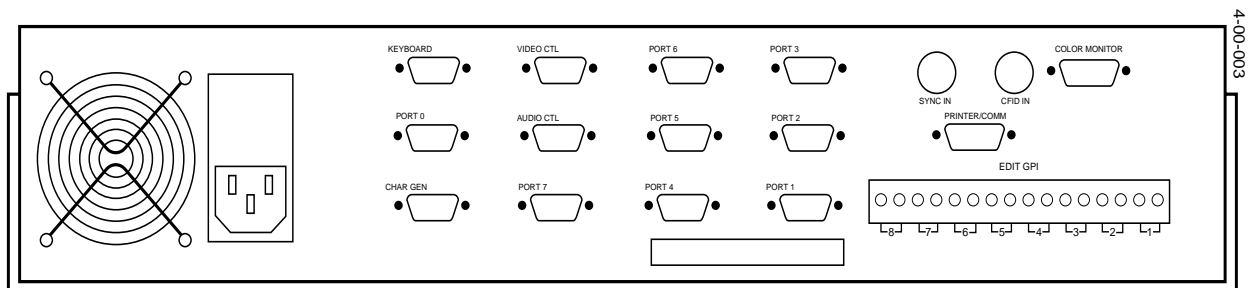


Figure 2-2. Computing Chassis Rear Panel

Expansion Chassis

The Expansion Chassis (VPE-351 only), shown in Figure 2-3, consists of eight (8) 9-pin D connectors and a 64-pin Serial I/O connector. These connectors provide the signal interfaces between the Expansion Chassis, the Computing Chassis, peripheral devices, and, if desired, the K5 Keyboard.

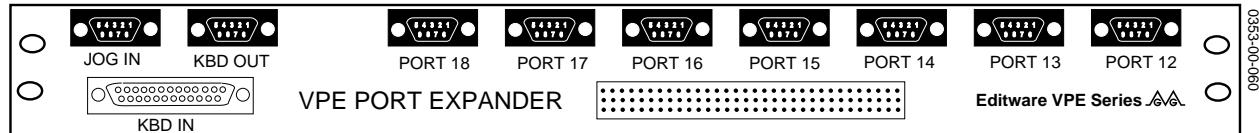


Figure 2-3. Expansion Chassis

Keyboard

The standard Keyboard for your Editor is a model K2 QWERTY style keyboard. (QWERTY refers to the style of keyboard, similar to a typewriter, where the top row of letters, from the left, begins with the letters QWERTY.) An optional K3 style keyboard is available for all models and an optional K5 Keyboard is available for the VPE-351.

NOTE: The K2 Keyboard has a sticker on the bottom which provides brief operation instructions for the AUTO CAL and MANUAL OVERRIDE features of the Keyboard. See Section 2 of the User's Guide for additional information.

K2 Keyboard

The K2 Keyboard, illustrated in Figure 2-4, includes a Jog Knob. The Keyboard connects to the KEYBOARD connector at the chassis rear panel. QWERTY keys are used for normal text entries and for some editing and control functions. Other keys provide special functions.

The Jog Knob provides efficient machine control. It is a motion sensitive device allowing quick access to different motion control modes without the need for additional keystrokes.

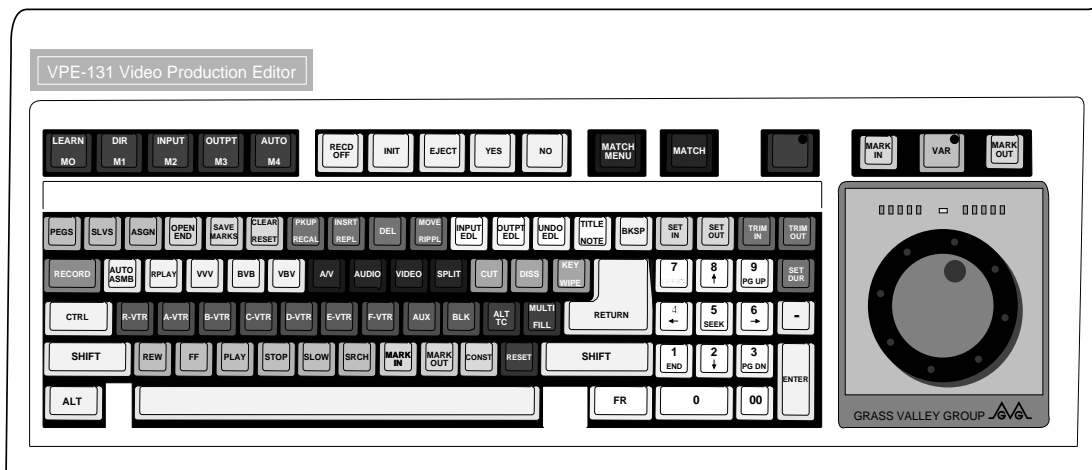


Figure 2-4. K2 QWERTY Style Keyboard

K3 Keyboard

The K3 Keyboard, illustrated in Figure 2-5, is a dedicated keyboard designed for fast, news-style functional applications. It also connects to the KEYBOARD connector. Key layout is designed for maximum speed. This Keyboard is an option for your Editor. The Jog Knob function is identical to the one on the K2 keyboard. (See Appendix C for additional information about the K3 Keyboard.)

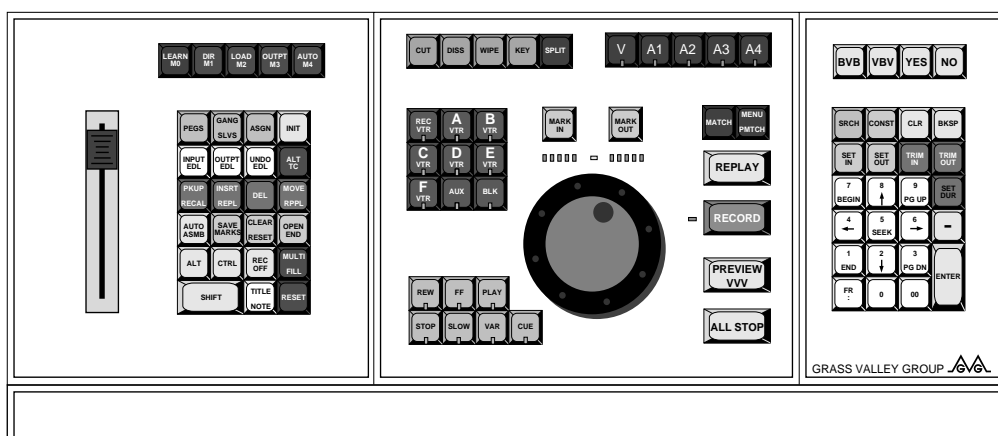


Figure 2-5. K3 Dedicated Functions Keyboard

K5 Keyboard (VPE-351 Only)

The K5 Keyboard, illustrated in Figure 2-6, consists of an expanded keyboard and a separate Jogger panel. The expanded keyboard has special function keys which replace multiple keystrokes which would otherwise be needed with other keyboards. This Keyboard has three connectors on its rear panel. One is for the cable which connects to the Expansion Chassis and one is for the cable from the Jogger panel. The third connector is for power to the Keyboard and, through the Keyboard, to the Jogger panel.

The Jogger panel has a Jog Knob and keys which are duplicates of those on the Keyboard. It also has a direction (forward/reverse) and speed indicator. The Jogger panel is normally connected to the Keyboard and, when so connected, receives power from it. However, the Jogger panel may be connected to the Jogger connector on the Expansion Chassis and then receives power from the Editor.

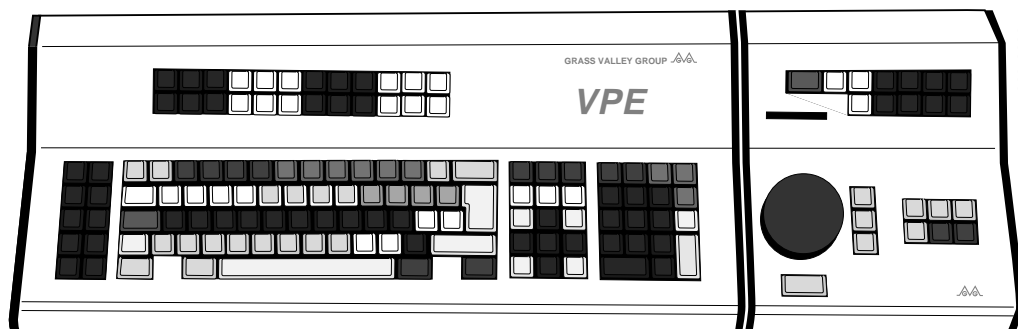


Figure 2-6. K5 Keyboard with Jog Panel

Specifications

The physical and electrical specifications for the Editors are listed in Table 2-1 below.

Table 2-1. PHYSICAL & ELECTRICAL SPECIFICATIONS

		Height	Width	Depth
Dimensions	Computing Chassis	3.5"(8.9cm)	17.0"(43.2cm)*	19.0"(40.0cm)**
	Expansion Chassis	1.6"(4.1cm)	17.0"(43.2cm)	1.0"(2.5cm) 9.0"(22.9cm)
	K2 Keyboard	2.0"(5.1cm)	21"(53.3cm)	9.0"(22.9cm)
	K3 Keyboard	2.0"(5.1cm)	21"(53.3cm)	9.5"(24.1cm)
	K5 Keyboard	4.0"(10.2cm)	21.8"(55.2cm)	9.5"(24.1cm)
	Jogger Panel	4.0"(10.2cm)	8"(20.3cm)	
Weight	Computing Chassis	25.0lbs(11.4kg)		
	Expansion Chassis	1.2lbs(0.5kg)		
	K2 Keyboard	5.4lbs(2.5kg)		
	K3 Keyboard	4.8lbs(2.2kg)		
	K5 Keyboard	7.0lbs(3.2kg)		
	Jogger Panel	4.0lbs(1.8kg)		
Power Consumption	VPE-300 Series	50W		
Input Voltage/Frequency	90 to 264VAC, 47 to 64Hz			
DC Power Supply	Output 1	+5VDC, ±0.05VDC, 5.5A		
	Output 2	+12VDC, ±0.6VDC, 2.5A		
	Output 3	-12VDC, ±0.06VDC, 0.5A		

* Add 2.0"(5.1cm) for brackets on rack mounted unit.

** Add 1.5"(3.8cm) for brackets on rack mounted unit.

NOTE: Dimensions do not include clearances for cabling and air flow.

Safety

Your Editor has been designed to meet UL1419 (3rd Revision) Safety standards. It has also been designed to conform to the emission standards of FCC Part 15, sub-part J for Class A computing equipment.

Environmental Requirements

Your Editor has been designed to operate efficiently in an environment with temperatures of from 0 to 50 degrees Celsius in up to 90% non-condensing humidity.