

Installation Manual

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KRYSTAL 4300
MULTI-CHANNEL UPGRADE

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Installation Instructions

Krystal Multi-Channel Upgrade

Introduction

This document explains how to upgrade a single channel Krystal Video Processor to a multi-channel Video Processor and install the channel into a multi-channel Krystal system.

If you purchased a new multi-channel Krystal system, you will not have to upgrade the hardware. The correct modules will have been installed in the proper locations at the factory.

Hardware

The Multi-Channel Upgrade kit consists of:

- One Video Processor I/O Module (#066237)
- Control cables

Documentation

- Installation Instructions (this document #071016500)

Tools and Materials Required for Installation

- Anti-static work surface
- #15 Torx or straight blade screwdriver
- The following module from the single channel Video Processor Frame:
 - Effect Manager (#066224-00S or higher).

Note If your Effect Manager is no revision S or higher, we strongly recommend you contact Tektronix/Grass Valley Products customer service for an upgrade.

- Serial Outputs module (#066227-00L or higher). Versions earlier than revision L are *not* compatible for combining.

Note If you have incompatible modules, contact Tektronix/Grass Valley Products customer service for an upgrade.

Installation Procedure

Save Configuration Files to Disk

You should always save your configuration files to disk before you install any hardware or software.

Note More than one Effect Manager and Control Panel usually exist in larger systems. We recommend you save your Krystal System Configuration (All System Data, Network) to floppy disk, save the Effects and User Pref for every Effect Manager, and save the Panel Configuration and Macros for every Control Panel onto separate labeled disks before updating your software.

Update Software to 3.0 or Later

If you are not running 3.0 or later software, upgrade your existing system before you install the new hardware. Follow the Software Installation procedure described in your latest Krystal Software Release Notes.

Hardware Installation

1. Power off all the components (Video Processors, System Controllers, Control Panels) in your Krystal system.

Note Modules in Krystal systems cannot be hot-swapped safely. Always power down Krystal frames before removing or inserting Krystal modules.

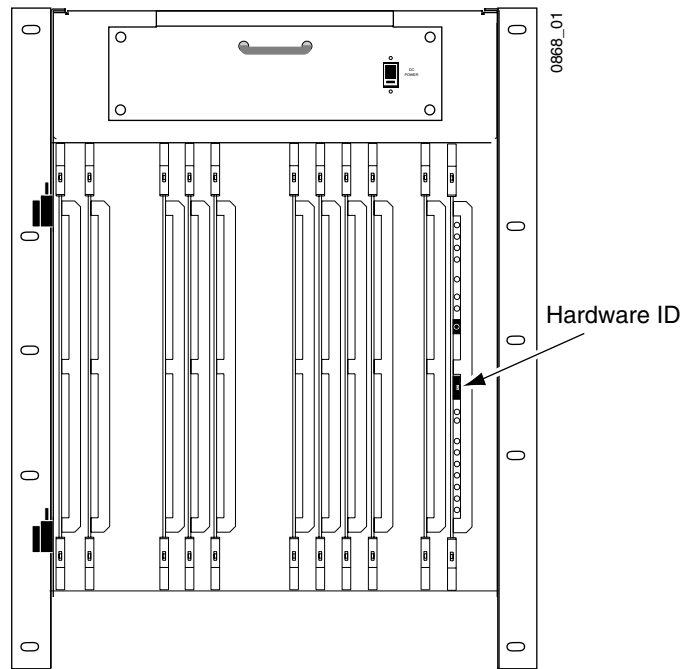
2. Observing anti-static precautions, remove the Effect Managers and Effect Manager I/O modules from all Video Processor frames that are to be connected to the multi-channel system.
3. Install the Effect Manager modules in the System Controller Frame.
 - a. The Small System Controller frame has slots for two Effect Managers and two Effect Manager I/O modules. Each Effect Manager and Effect Manager I/O pair that is installed supports one user. Install at least one Effect Manager and one Effect Manager I/O module. If only one board set is installed, the modules must be in slot 1 in both the front and back. If more than two channels are to be connected to a Small System Controller frame, the extra Effect Managers and Effect Manager I/Os can be put aside for spares.

- b. The Large System Controller frame has slots for up to four Effect Managers and four Effect Manager I/O Modules. Install at least one Effect Manager (#066224-00S or later) and one Effect Manager I/O module. Effect Manager CPU modules are inserted into the labeled slots in the front bay of the Large System Controller, starting at the slot labeled 1 (actually slot #12 counting from the left) with subsequent modules inserted toward the left (slots labeled 2, 3, and 4). If only one Effect Manager is being installed it must be in the slot labeled 1 (#12). The Effect Manager I/O modules go into slots at the rear of the frame that correspond to the Effect Manager CPU modules installed in the front (rear labeled slots 1, 2, 3, 4).

Note Each Effect Manager in the Large System Controller frame that will be used for combining will need a 4 Channel Combiner Output module installed in the numbered slot that corresponds to that Effect Manager.

4. Observing anti-static precautions, remove the single channel Video Processor I/O module (#066226) in the back of each Video Processor frame being upgraded and replace it with the multi-channel Video Processor I/O module (#066237) included in the upgrade kit.
5. Set the hardware IDs of all the Video Processor frames in your system. The hardware ID is set using a screwdriver dial adjustment located on the right side of the switch (Figure 1). You may need to remove the module from the frame to reach this switch. Each Video Processor CPU must have a different hardware ID. Setting 0 corresponds to the Video Processor module in the frame identified as Channel 1 in the Physical Channel Configuration menu (**System Setup \ SYSTEM CONFIG> \ CHANNEL CONFIG>**), Setting 1 corresponds to the Video Processor CPU module in the frame identified as Channel 2, and likewise for the remaining channel assignments. The settings must be correct for the system to work properly.
6. Connect your Video Processor video and control wiring as required for your facility. Refer to the Krystal Installation and Service Manual for detailed information.

Figure 1. Video Processor Hardware ID



System Power Up

Power up the components of your system in the following order:

1. All Video Processor frames
2. System Controller frame (wait 45 seconds for initialization)
3. All Control Panels

Configuration

You need to install each new channel (in software) so the system recognizes the available hardware.

1. Acquire an Effect Manager.
2. Install the physical channels: **System Setup \ SYSTEM CONFIG > \ OK \ CHANNEL CONFIG >**. Select **TRUE** for all the channels present. You must exit from the menu to save this change to NV RAM. Press the **Exit** button.
3. Make any other configuration changes required for your system, then save the configuration files to NV RAM and to floppy disk. Refer to the latest Krystal Software Release notes for specific procedures.



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