

8964DEC/-FS

4-CH NTSC/PAL TO SDI DECODER MODULE

Instruction Manual

SOFTWARE VERSION 1.0.5

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Grass Valley Web Site

The www.thomsongrassvalley.com web site offers the following:

Online User Documentation — Current versions of product catalogs, brochures, data sheets, ordering guides, planning guides, manuals, and release notes in .pdf format can be downloaded.

FAQ Database — Solutions to problems and troubleshooting efforts can be found by searching our Frequently Asked Questions (FAQ) database.

Software Downloads — Software updates, drivers, and patches can be downloaded.

8964DEC Release Notes

Introduction

This document provides information on the latest release of the software for use with the 8964DEC module. Read this document completely before attempting to download the latest software.

Pertinent reference documents are available on-line at www.thomson-grassvalley.com or hard copies can be ordered from Grass Valley Sales or Service.

This document details:

- Summary of software release features,
- Hardware Modifications (Field Modification Notes),
- Acquiring and updating software, and
- Accessing reference documents.

Version 1.0.5 Software Release

The latest software release for the 8964DEC module offers the following new features:

- Automatic input gain and chroma controls (AGC and ACC) have been separated and are set to default to disabled
- Monochrome In signal indicator added to Composite Video In controls
- EDH insertion has been moved to the Functional View web page

Note Check your module assembly number as described in [Table 1 on page 8](#) to determine if a hardware modification is necessary before proceeding.

AGC/ACC Controls

The Automatic Gain Control (AGC) and Automatic Chroma Control (ACC) settings for input video and chroma gain are now separate web page and local controls. These were tied together in previous releases.

Remote Control

The **Enable AGC** and **Enable ACC** are now separate controls on the Video Composite web page and are set to default to disabled as shown in [Figure 1 on page 5](#).

When either of the controls is enabled (checked), the AGC or ACC controls will no longer appear and the read-only state (100%) will show as illustrated in [Figure 2 on page 5](#).

Note AGC and ACC parameters cannot be controlled remotely from a Newton Control Panel.

Local Control

The AGC and ACC controls are also separate in the on-board local controls as described below. Select the desired channel using the Channel Select Mode controls described in the 8964DEC User Manual.

AGC Local Controls

To enable or disable the AGC in local mode, select Bank 1 (2nd LED off), Function Setting 3. Moving the paddle switch up, enables AGC, moving it down, disables AGC. Use Function Switch Setting 4 in Bank 1 to increase or decrease the input video gain.

ACC Local Controls

To enable or disable the ACC in local mode, select Bank 2 (2nd LED On), Function Setting 9. Moving the paddle switch up, enables ACC, moving it down, disables ACC. Use Function Switch Setting 5 in Bank 1 (2nd LED off) to increase or decrease the input chroma gain.

Figure 1. Video Composite In Web Page with AGC and ACC Enabled

 **Video Composite In** 

Model: [8964DEC-FS](#) Description: [4 Channel NTSC/PAL to SDI Decoder](#)
 Frame Location: [Bay 9 QA 8900 frame](#) , Slot: [3](#)
 Last Recalled E-MEM: [Factory Defaults](#)

Current Line Rate

Channel 1	<input type="button" value="Channel 2"/>	<input type="button" value="Channel 3"/>	<input type="button" value="Channel 4"/>
Input 1	Input 2	Input 3	Input 4
Input Signal: Not Present <input checked="" type="checkbox"/> Report Signal Loss <input type="checkbox"/> Monochrome In			
<input checked="" type="checkbox"/> Remove setup from active video			
<input type="checkbox"/> Enable AGC		<input type="checkbox"/> Enable ACC	
Input Video Gain (%) <input type="button" value="<<"/> <input type="text" value="100.0"/> <input type="button" value=">>"/> <input type="button" value="<"/> <input type="button" value="Apply"/> <input type="button" value=">"/>		Input Chroma Gain (%) <input type="button" value="<<"/> <input type="text" value="100.0"/> <input type="button" value=">>"/> <input type="button" value="<"/> <input type="button" value="Apply"/> <input type="button" value=">"/>	
Decode Mode: <input checked="" type="radio"/> comb adaptive <input type="radio"/> comb non-adaptive <input type="radio"/> notch			
Apply Settings To: <input type="button" value="Channel 2"/> <input type="button" value="Channel 3"/> <input type="button" value="Channel 4"/> <input type="button" value="All"/>			
Reset Defaults For: <input type="button" value="Current Channel"/> <input type="button" value="All Channels"/>			

[Back](#) [Functional View](#) [Next](#)

Figure 2. Video Composite In Web Page with Automatic AGC and ACC Enabled

<input checked="" type="checkbox"/> Enable AGC	<input checked="" type="checkbox"/> Enable ACC
Input Video Gain: 100.0 %	Input Chroma Gain: 100.0 %

Monochrome In Controls

A new feature has been added to the Video Composite In remote and local controls to indicate to the module whether an input signal is monochrome (or any signal with no burst, such as a key signal).

Remote Control

On the Video Composite In web page, select the **Monochrome In** checkbox to indicate to the module that a monochrome signal is being fed to the selected channel input as shown in [Figure 3](#).

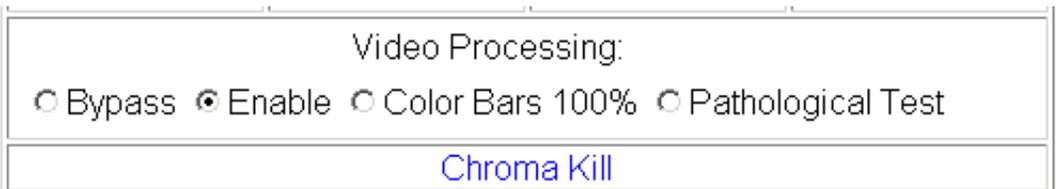
Figure 3. Video Composite In Monochrome In Checkbox



Note Monochrome In indication cannot be controlled remotely from a Newton Control Panel.

When Monochrome In is selected on the Video Composite In web page, the Chroma Kill function portion on the Video Proc page will change to a read-only state as shown in [Figure 4](#). If the Monochrome In selection is turned off, the status of the Chroma Kill checkbox will return to its previous state. The SDI output will be a Y luminance signal only with no color difference present

Figure 4. Video Proc Web Page with Monochrome Selected



Local Control

The Monochrome In control is accessible in Local mode in Bank 2 (2nd LED on), Function Setting A. Moving the paddle switch up sets Monochrome In to the On position, moving the paddle down, turns off the Monochrome In function.

EDH Insertion

The EDH insertion function for each channel has been moved from the Video Proc web page to the Functional View web page as shown in Figure 5.

Select the **Insert** checkbox to insert EDH into the SDI output for each channel. Uncheck the box for no EDH insertion.

This function is not available from the Newton Control Panel or with local on-board controls.

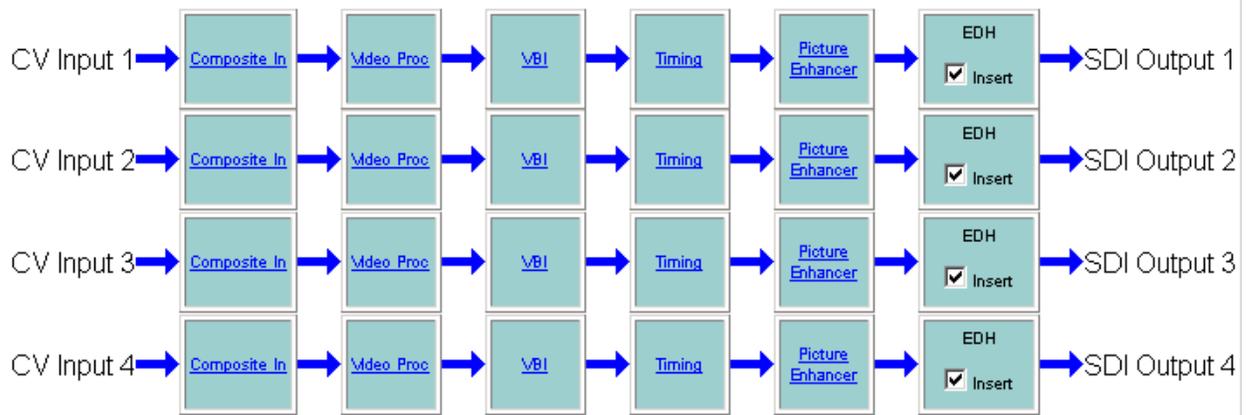
Figure 5. 8964DEC Functional View Web Page

Functional View

Model: 8964DEC Description: 4 Channel NTSC/PAL to SDI Decoder

Frame Location: Bay 9 QA 8900 frame , Slot: 3

Last Recalled E-MEM: Factory Defaults



Hardware Modifications

Hardware modifications may be necessary on some versions of the module to enable updating or to be compatible with the latest software. Modification instructions are given in the form of Field Modification Notes (FMN) available on-line or in hard copy from Grass Valley (see *Accessing Reference Documents* on page 11).

Refer to **Table 1** below for an overview of the module versions and any necessary modifications.

Table 1. Hardware Modifications

Module Assembly Number	FMN Number	Comments
671-6471-01 B1 and earlier	075075100	This modification requires soldering a jumper wire on the circuit board.

Acquiring and Updating Software

Software upgrade packages are available from the Grass Valley Customer Service FAQ site or the public FTP site. The free FTP server software is also available.

You may connect to the Grass Valley FAQ site to access the latest module and free FTP Server software and subscribe to software updates automatically at the following URL:

<http://gvg.custhelp.com>

The information provided here is the most up-to-date. Using this link is recommended so that when new versions of software are released, you are notified by email

To find the latest available 8900 software on the FAQ site, do the following:

1. Navigate to the FAQ site and click on the first FAQ in the list labeled DOWNLOAD THE LATEST SOFTWARE?
2. Select the link to the correct module software.

If you cannot find the software you need you may also go directly to the Thomson Grass Valley FTP site to download the software at the following location:

<ftp://ftp.thomsongrassvalley.com/pub/modular>

FTP Method

If you do not have NetConfig, use the detailed FTP Server download procedure outlined in the 8900NET Instruction Manual available on-line.

NetConfig Method

To use this method, you must have the NetConfig Networking Application option running on a networked PC on the same subnet as the frame with an 8900NET module and the 8964DEC/-FS to be updated. Two files are required for updating software, an .fld and an .sw2 for the module being updated. For acquiring software, refer to [Acquiring and Updating Software on page 8](#).

To use NetConfig for software updating, follow the steps below:

1. Locate the PC directory in which the NetConfig application has been installed. The default location is C:\Program Files\Grass Valley Group\NetConfig.

If this is not where NetConfig was installed, right-click on the NetConfig desktop shortcut and select **Properties**, click on the **Shortcut** tab and note the location of the installation in the **Start In** field.

2. Create a subdirectory named **modular** (if one does not already exist) in the main NetConfig directory.
3. Copy the .fld file for the update into this modular subdirectory in the Netconfig directory.
4. Copy the .sw2 file for the module update into the main NetConfig directory.
5. Open NetConfig and click on the **Load SW** icon on the top toolbar (shown at left).



6. The NetConfig Update Devices window will open showing the device types available for update ([Figure 6 on page 10](#)).

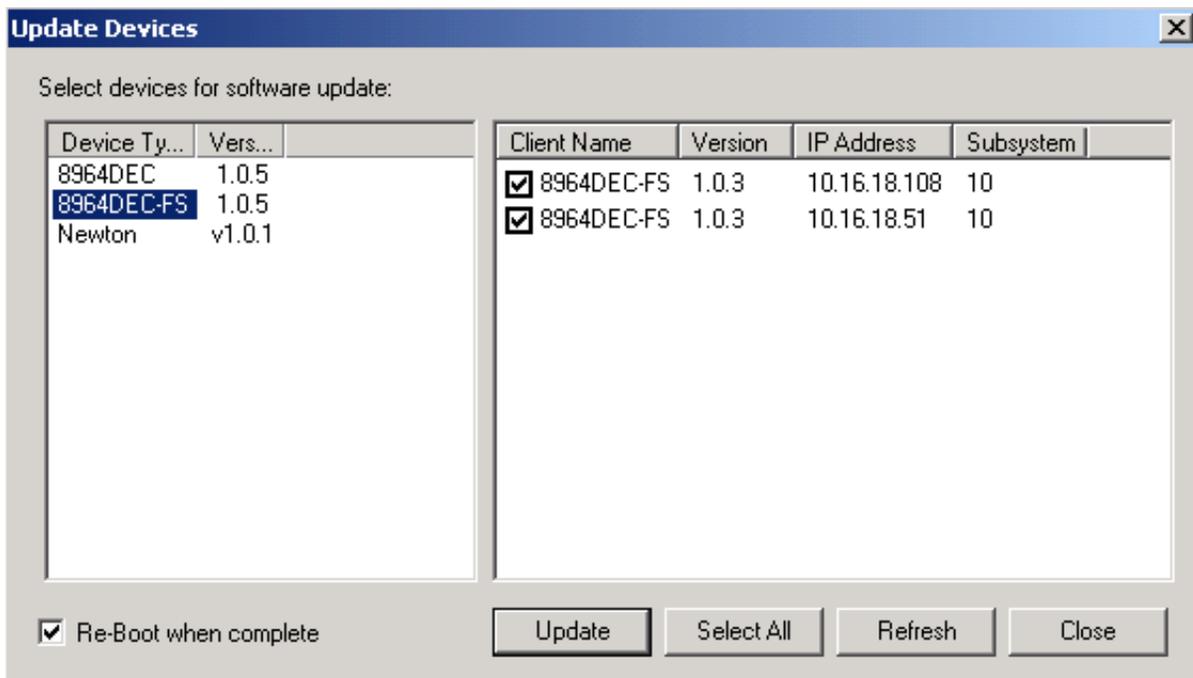
These device types and versions represent the .sw2 and .fld files loaded in the NetConfig main directory and the modular subdirectory. These files must be present on the PC running NetConfig for them to appear in the Device Type list.

7. Select the Device Type you wish to update. In the example in [Figure 6](#), the 8964DEC-FS Device Type has been selected. The modules accessible on the network of this device type will appear in the window on the right under the **Client Name** heading as shown.

The current software loaded on each module will be listed as well as the IP address of the module client.

8. Check the corresponding **Client Name** boxes to upgrade the modules or use the **Select All** button to update all modules of this type present on the network.
9. Press the **Update** button to perform the update to all the selected modules.
10. Once the updating is complete, select the **Refresh** button to make sure all selected modules have updated to the correct software version which will be reported in the window.

Figure 6. NetConfig Update Devices Window



For more information on using NetConfig, refer to the NetConfig Networking Application Instruction Manual which is included with the option, available on the Thomson Grass Valley web site, and may also be present in the NetConfig directory during some product installations (Newton Control Panel installation is one example).

Accessing Reference Documents

For on-line access to reference documents referred to in these Release Notes, navigate to the following URL:

<http://www.thomsongrassvalley.com/docs/>

Select **Broadcast Products**, then the **Modular Products** link and scroll through the available documents. All of the documents referred to may also be ordered in hard copy from any Grass Valley Sales or Customer Service source. Refer to *Contacting Grass Valley* at the front of this document.

