

TABLE OF CONTENTS

1.	OVERVIEW.....	1
2.	INSTALLATION.....	3
2.1.	CARE AND HANDLING OF OPTICAL FIBER.....	4
3.	SPECIFICATIONS.....	5
3.1.	OPTICAL INPUT.....	5
3.2.	ANALOG VIDEO OUTPUTS	5
3.3.	ELECTRICAL	5
3.4.	COMPLIANCE.....	5
3.5.	PHYSICAL (NUMBER OF SLOTS)	6
3.6.	ORDERING INFORMATION	6
4.	STATUS INDICATORS AND DISPLAYS	7
4.1.	STATUS INDICATOR LEADS.....	7
4.2.	DOT-MATRIX DISPLAY	8
4.2.1.	Display of Warning Status Indications.....	9
4.2.2.	Displaying the Video Standard	9
4.2.3.	Displaying the Optical Power	9
4.2.4.	Displaying the Firmware Version.....	10
4.2.5.	Setting the Video Pre-emphasis.....	10
4.2.6.	Setting the Video Gain	10
4.2.7.	Setting the DC Offset	11
4.2.8.	Setting the Password for Channel Blocking and Selecting Channels to be Blocked	11
4.2.9.	Setting the Orientation of the Text on the Card Edge Display.....	12
4.2.10.	Resetting Factory Defaults	12
5.	JUMPERS.....	13
5.1.	SELECTING WHETHER LOCAL FAULTS WILL BE MONITORED BY THE GLOBAL FRAME STATUS	13
5.2.	CONFIGURING THE MODULE FOR FIRMWARE UPGRADES	13
6.	VISTALINK® REMOTE MONITORING/CONTROL.....	14

6.1. WHAT IS VISTALINK®?	14
6.2. VISTALINK® MONITORED PARAMETERS	15
6.3. VISTALINK® CONTROLLED PARAMETERS	15
6.4. VISTALINK® TRAPS	16

Figures

Figure 1-1: 7707CVR-8 Block Diagram	2
Figure 2-1: 7707CVR-8 Rear Panels	3
Figure 4-1: Card Edge Menu Structure	8
Figure 5-1: Location of Jumpers and Card Edge Controls	13

Tables

Table 6-1: VistaLINK® Monitored Parameters	15
Table 6-2: VistaLINK® Controlled Parameters	15
Table 6-3: VistaLINK® Traps	16

REVISION HISTORY

<u>REVISION</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1.0	Initial Release	Sept 09

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Although every attempt has been made to accurately describe the features, installation and operation of this product in this manual, no warranty is granted nor liability assumed in relation to any errors or omissions unless specifically undertaken in the Evertz sales contract or order confirmation. Information contained in this manual is periodically updated and changes will be incorporated into subsequent editions. If you encounter an error, please notify Evertz Customer Service department. Evertz reserves the right, without notice or liability, to make changes in equipment design or specifications.

WARNING



Never look directly into an optical fiber. Non-reversible damage to the eye can occur in a matter of milliseconds.



Do not hook up the 7707CVT-8 series DWDM cards and any 7707CVR-8 series cards directly with a short fiber optic cable. The 7707CVT-8 series DWDM card produces +7dBm of power, which will damage the receiver if connected directly.



Do not hook up the 7707CVT-8 series cards that output more than -7dBm of power and 7707CVR-8 series high sensitivity (-H versions) receiver cards directly with a short fiber optic cable. The 7707CVT-8 series cards that produce more than -7dBm of power will damage the receiver if connected directly.

1. OVERVIEW

The 7707CVR-8 is a VistaLINK[®]-capable, composite analog video fiber receiver for broadcast quality video signals. This single card module accepts a fiber optic input from the companion 7707CVT-8 composite analog video fiber transmitter, demultiplexes the signals, performs D to A conversion and outputs NTSC or PAL analog video.

The 7707CVR-8 occupies two card slots and can be housed in a 1RU frame which will hold up to 3 modules, a 3RU frame which will hold up to 7 modules, a 350FR portable frame which holds up to 3 modules, or a standalone enclosure which will hold 1 module.

Features:

- Single card fiber optic receiver for up to eight analog video signals
- Supports both NTSC and PAL video signals
- Broadcast quality analog video performance
- Meets or exceeds EIA/TIA RS250-C short haul specifications for analog video transport
- Adjustable gain, DC offset and pre-emphasis for up to 250m of Belden 1694A coaxial cable
- Comprehensive signal and card status monitoring via four digit card edge display or remotely through SNMP and VistaLINK[®]
- VistaLINK[®] capability is available when modules are used with the 3RU 7800FR or 350FR portable frame and a 7700FC VistaLINK[®] Frame Controller module in slot 1 of the frame
- Fully hot-swappable from front of frame with no fiber disconnect/reconnect required
- Supports single-mode and multi-mode fiber optic cable
- Accepts any wavelength in the 1270nm to 1610nm range

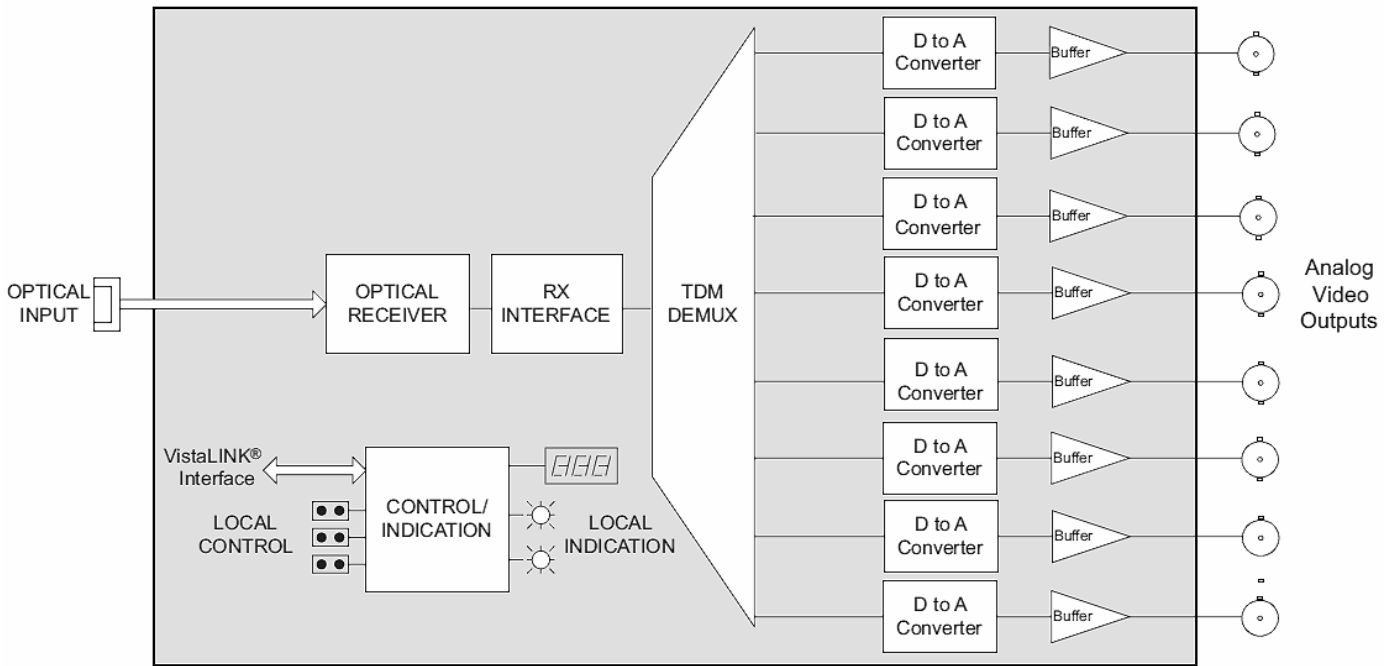


Figure 1-1: 7707CVR-8 Block Diagram

2. INSTALLATION

The 7707CVR-8 comes with a companion rear plate that has eight BNC connectors and one SC/PC, ST/PC or FC/PC optical connector. For more information on mounting the rear plate and inserting the module into the frame see section 3 of the frame chapter.

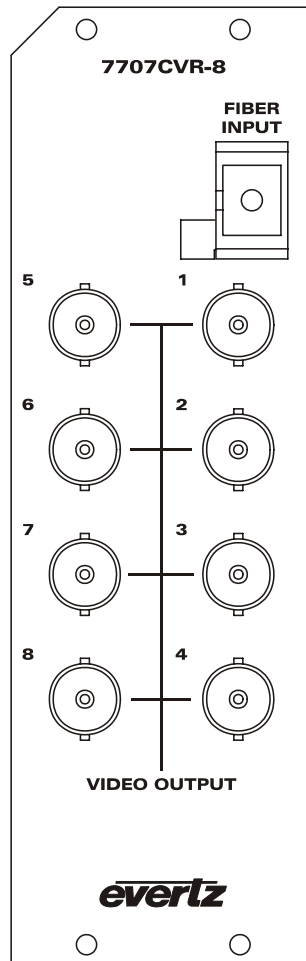


Figure 2-1: 7707CVR-8 Rear Panels

FIBER INPUT: SC/PC, ST/PC or FC/PC female connector. This wide range input accepts optical wavelengths of 1270nm to 1610nm for standard, CWDM or DWDM transmission schemes.



Do not hook up the 7707CVT-8 series DWDM cards and any 7707CVR-8 series cards directly with a short fiber optic cable. The 7707CVT-8 series DWDM card produces +7dBm of power, which will damage the receiver if connected directly.



Do not hook up the 7707CVT-8 series cards that output more than -7dBm of power (see 7707CVT-8 series specifications for output power of various laser types) and 7707CVR-8 series high sensitivity (-H versions) receiver cards directly with a short fiber optic cable. The 7707CVT-8 series cards that produce more than -7dBm of power will damage the receiver if connected directly.

ANALOG VIDEO OUTPUTS

1 to 8: On the 7707CVR-8 series card module, there are eight composite analog video outputs. Each output can have cable pre-emphasis applied independently.

2.1. CARE AND HANDLING OF OPTICAL FIBER



Never touch the end face of an optical fiber. Always keep dust caps on optical fiber connectors when not connected and always remember to properly clean the optical end face of a connector before making a connection.

The transmission characteristics of the fiber are dependent on the shape of the optical core and therefore care must be taken to prevent fiber damage due to heavy objects or abrupt fiber bending. Evertz recommends that you maintain a minimum bending radius of 5 cm to avoid fiber-bending loss that will decrease the maximum attainable distance of the fiber cable. The Evertz fiber optic modules come with cable lockout devices, to prevent the user from damaging the fiber by installing a module into a slot in the frame that does not have a suitable I/O module. For further information on the care and handling of fiber optic cable see section 3 of the Fiber Optics System Design chapter in the front of the binder.

3. SPECIFICATIONS

3.1. OPTICAL INPUT

Number of Inputs:	1
Connector:	Female SC/PC, ST/PC, FC/PC
Operating Wavelength:	1270nm to 1610nm
Maximum Input Power:	
Standard:	0dBm
High Sensitivity:	-7dBm
Optical Sensitivity:	
Standard:	-23dBm
High Sensitivity:	-28dBm

3.2. ANALOG VIDEO OUTPUTS

Standards:	NTSC, SMPTE 170M, PAL, ITU-R624-4
Number of Outputs:	8
Connector:	BNC per IEC 61169-8 Annex A
System bandwidth:	5.5MHz
Output Level:	1V p-p (nominal), 2V p-p maximum
Gain:	Unity gain nominal, adjustable 50% to 150%
Output Impedance:	75Ω
Return Loss:	> 20dB
SNR:	> 70dB
Differential Gain:	< 1.0%
Differential Phase:	< 0.7°
Pre-Emphasis:	Cable loss compensation for up to 250m of Belden 1694A (each output adjustable separately)
Passband Ripple:	
NTSC:	< ±0.1dB to 4.1MHz and < ±0.2dB to 5.5MHz
PAL:	< ±0.1dB to 4.8MHz and < ±0.2dB to 5.8MHz
Chroma/Luma Gain:	98% - 103%
Chroma/Luma Delay:	
NTSC:	<5ns
PAL:	<12ns Line Time Distortion:1.2%

3.3. ELECTRICAL

Voltage:	+12V DC
Power:	13W

3.4. COMPLIANCE

Laser Safety:	Class 1 laser product Complies with 24 CFR 1040.10 and 1040.11 IEC 60825-1
EMI/RFI:	Complies with FCC Part 15, Class A EU EMC directive

3.5. PHYSICAL (NUMBER OF SLOTS)

350FR:	2
7700FR-C:	2
7800FR:	2

3.6. ORDERING INFORMATION

7707CVR-8	Eight Analog Video Fiber Receiver, VistaLINK®
7707CVR-8-H	Eight Analog Video Fiber Receiver, High Sensitivity, VistaLINK®

Ordering Options: Rear Plate must be specified at time of order
Eg: Model + 3RU

Rear Plate Suffix:

+3RU	3RU Rear Plate for use with 350FR, 7700FR-C or 7800FR Multiframe
+1RU	1RU Rear Plate for use with 7701FR Multiframe
+SA	Standalone Enclosure Rear Plate

Connector Suffix:

+SC	SC/PC
+ST	ST/PC
+FC	FC/PC

Enclosures:

350FR	3RU Portable Multiframe which holds up to 3 dual slot modules
7700FR-C	3RU Multiframe which holds up to 7 dual slot modules
7800FR	3RU Multiframe which holds up to 7 dual slot modules
7701FR	1RU Multiframe which holds up to 3 single or dual slot modules
S7701FR	Standalone Enclosure

4. STATUS INDICATORS AND DISPLAYS

The 7707CVR-8 has 11 LED Status indicators and a 4 digit alphanumeric display on the front card edge to show operational status of the card at a glance. The card edge pushbutton and toggle switch are used to select various displays on the alphanumeric display. Figure 5-1 shows the location of the LEDs and card edge controls.

4.1. STATUS INDICATOR LEDs

Two large LEDs on the front of the board indicate the general health of the module:

LOCAL FAULT: This Red LED indicates poor module health and will be On during the absence of a valid optical link to a 7707CVT-8 module, or if a local input power fault exists (i.e.: a blown fuse). The LOCAL FAULT indication can also be reported to the frame through the FRAME STATUS jumper.

MODULE OK: This Green LED indicates good module health. It will be On when a valid optical link to a 7707CVT-8 module is present, and board power is good.

There are nine small LEDs on the back side of the board that indicate the presence of video and optical link.

OPTICAL LINK: This Green LED indicates that an optical link is established.
This Red LED indicates that optical link errors are present.

VIDEO 1 PRESENT: This Green LED indicates the presence of a valid signal on the Video 1 input.
This Amber LED indicates that Video 1 output is blocked.

VIDEO 2 PRESENT: This Green LED indicates the presence of a valid signal on the Video 2 input.
This Amber LED indicates that Video 2 output is blocked.

VIDEO 3 PRESENT: This Green LED indicates the presence of a valid signal on the Video 3 input.
This Amber LED indicates that Video 3 output is blocked.

VIDEO 4 PRESENT: This Green LED indicates the presence of a valid signal on the Video 4 input.
This Amber LED indicates that Video 4 output is blocked.

VIDEO 5 PRESENT: This Green LED indicates the presence of a valid signal on the Video 5 input.
This Amber LED indicates that Video 5 output is blocked.

VIDEO 6 PRESENT: This Green LED indicates the presence of a valid signal on the Video 6 input.
This Amber LED indicates that Video 6 output is blocked.

VIDEO 7 PRESENT: This Green LED indicates the presence of a valid signal on the Video 7 input.
This Amber LED indicates that Video 7 output is blocked.

VIDEO 8 PRESENT: This Green LED indicates the presence of a valid signal on the Video 8 input.
This Amber LED indicates that Video 8 output is blocked.

4.2. DOT-MATRIX DISPLAY

Additional signal and status monitoring and control over the card's parameters is provided via the 4-digit alphanumeric display located on the card edge (see Figure 5-1). The card edge toggle switch is used to select whether you are displaying status from the card (monitoring mode) or setting control parameters for the card (control mode).

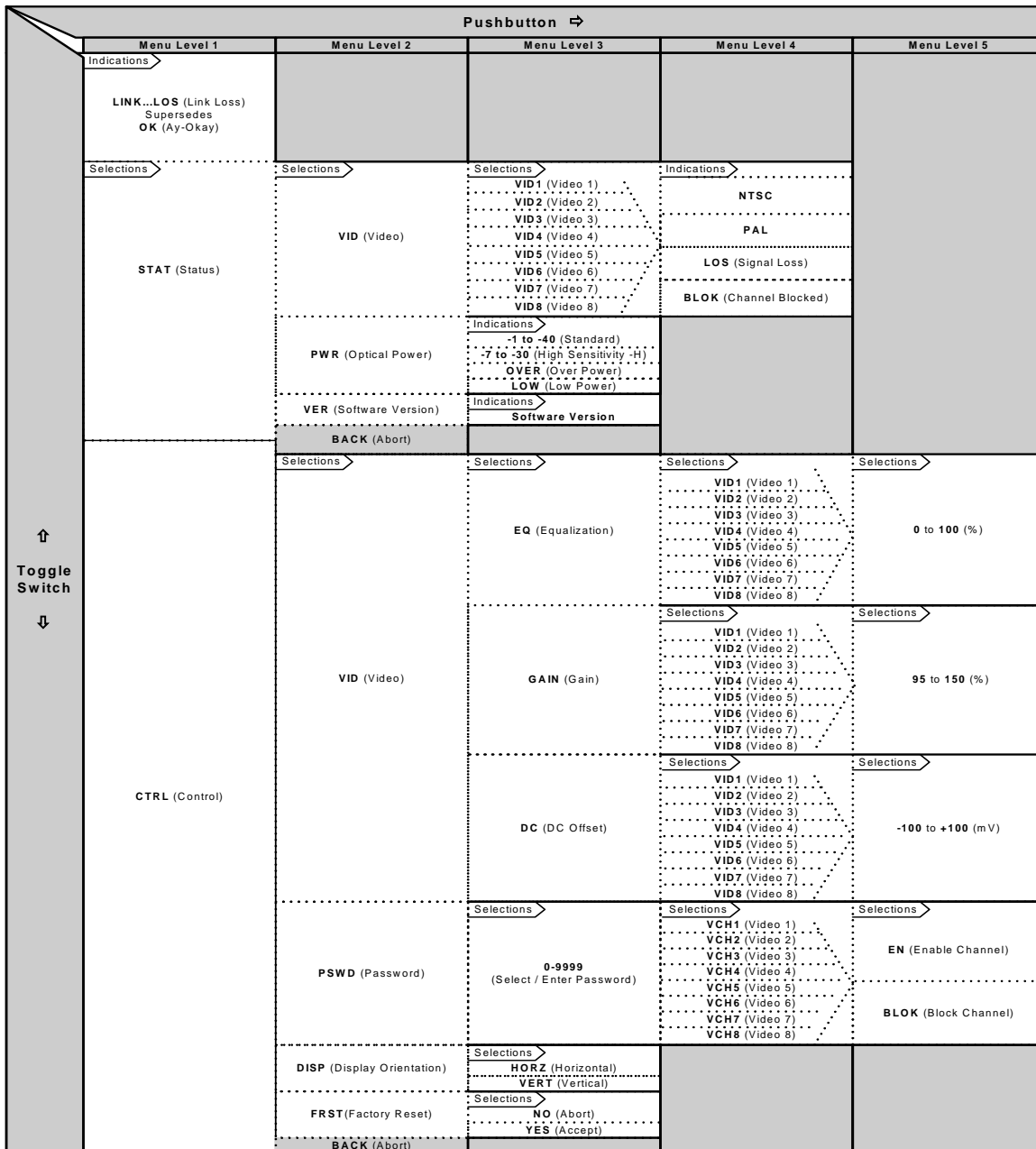


Figure 4-1: Card Edge Menu Structure

If a specific menu selection has a configuration value associated with it, then this may be changed using the toggle switch. Pressing the pushbutton will apply the displayed value and return you to the previous menu level.

The most recent user selection will be maintained in non-volatile memory in the event of power loss to the module.

4.2.1. Display of Warning Status Indications

The top level, default display indicates overall card status and warnings:

OK	Card is functioning properly
LINK...LOSS	No valid optical link established between the 7707CVT-8 and the 7707CVR-8 Flashing alternates between LINK and LOSS

Pressing the pushbutton from this default display will allow the user to select from **STAT** (status) and **CTRL** (control) menu items.

4.2.2. Displaying the Video Standard

The 7707CVR-8 detects the video standard of the signals present at its inputs. To display the video standard, select the **STAT** menu item in menu level 1, select **VID** from menu level 2, then use the toggle switch to display the desired video channel (from **VID1** to **VID8**) and press the pushbutton to select it. For the sake of simplicity, only the **VID1** menu item will be described in the manual.

STAT
VID
VID1
NTSC
PAL
LOS
BLOK

The video standard will be displayed from the list below:

<i>NTSC</i>	<i>NTSC</i> displays that NTSC is present.
<i>PAL</i>	<i>PAL</i> displays that PAL is present.
<i>LOS</i>	<i>LOS</i> displays that there is a Loss of Signal.
<i>BLOK</i>	<i>BLOK</i> displays that there is a Channel Block.

4.2.3. Displaying the Optical Power

The 7707CVR-8 module can measure and display the input optical power over a range of -1dBm to -40dBm at increments of 1dBm for the standard version and -7dBm to -30dBm in 1dBm increments for the -H version. To display the input optical power, select the **STAT** menu item in menu level 1, then use the toggle switch to display the **PWR** option and press the pushbutton to select it.

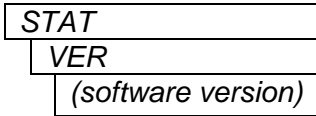
STAT
PWR
OVER
<i>-1 to -40</i>
<i>-7 to -30</i>
LOW

The display will show one of the following:

OVER	Indicates optical input power exceeding -1dBm for standard version and -7dBm for “-H” version
-1 to -40	Optical input power within this range (Standard Version).
-7 to -30	Optical input power within this range (-H Version).
LOW	Input optical power low (< -40 dBm for Standard Version, < -30 dBm for -H Version)

4.2.4. Displaying the Firmware Version

The **VER** option displays the card's current firmware version. To display the firmware version, select the **STAT** menu item in menu level 1 then use the toggle switch to display the **VER** option and press the pushbutton to select it.



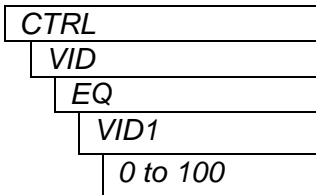
The firmware version will scroll across the display.

For example: **VER 1.0 BLD 067**

4.2.5. Setting the Video Pre-emphasis

The **EQ** controls are used to set the amount of pre-emphasis being applied at the video output(s). It can be adjusted to compensate for various output cable lengths to achieve a flat frequency curve. The display shows a range of approximate cable length values expressed in meters for Belden 1694 cable or equivalent. When set to 0 the video pre-emphasis is turned off.

To set cable pre-emphasis, select the **CTRL** menu item in menu level 1, select **VID** from menu level 2, then select **EQ**. Use the toggle switch to select the desired video channel pre-emphasis (from **VID1** to **VID8**) and press the pushbutton to select it. Use the toggle switch to set the pre-emphasis value of **VID1** to **VID8**. For the sake of simplicity, only the **VID1** menu item will be described in the manual.



This control selects the amount of pre-emphasis that is applied at the video output(s).

0 to 100% Pre-emphasis range, describing a % value

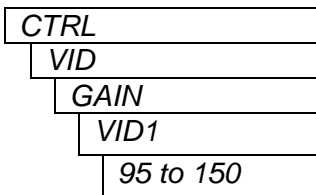
4.2.6. Setting the Video Gain

The Gain control is used to set the gain of the video output on the 7707CVR-8. The display shows a range of gain values expressed as a percentage.



Note: The values other than 100 are approximate only.

To set the Gain, select the **CTRL** menu item in menu level 1, select **VID** from menu level 2, then select **GAIN**. Use the toggle switch to select the desired video channel gain (from **VID1** to **VID8**) and press the pushbutton to select it. Use the toggle switch to set the gain value of **VID1** to **VID8**. For the sake of simplicity, only the **VID1** menu item will be described in the manual.



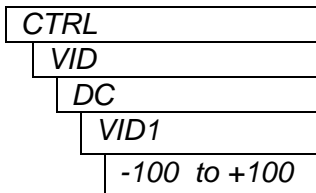
This control enables the user to set the gain of the video output.

95 to 150% Video Gain range, describing a % value

4.2.7. Setting the DC Offset

The *DC Offset* control is used to set the DC offset level of the video output on the 7707CVR-8. The display shows a range of offset values from 0 Volts, expressed in millivolts.

To set the DC Offset, select the **CTRL** menu item in menu level 1, select **VID** from menu level 2, then select **DC**. Use the toggle switch to select the desired video channel DC offset (from **VID1** to **VID8**) and press the pushbutton to select it. Use the toggle switch to set the gain value of **VID1** to **VID8**.



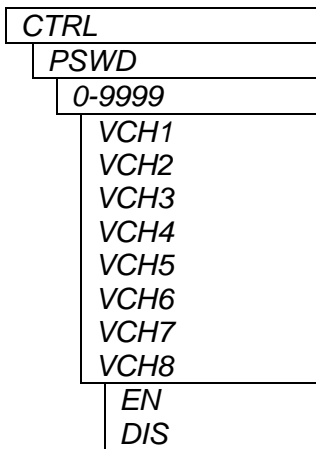
This control enables the user to set the DC offset level of the video output.

-100 to +100 DC Offset range, describing a mV (millivolt) value

4.2.8. Setting the Password for Channel Blocking and Selecting Channels to be Blocked

The 7707CVR-8 allows selective blocking of video channels 1 to 8 with a password. The default password is 7154.

To view the menu for channel blocking, use the pushbutton to select the **CTRL** menu item in menu level 1, then use the pushbutton to select **PSWD** from menu level 2. Use the toggle switch to cycle through password 0...9999. Use the pushbutton to enter the password shown on the display in menu level 3.



In menu level 4 use the toggle switch and then pushbutton to select the following:

- | | |
|-------------|-------------------------------|
| PWSL | Enter a new password 0...9999 |
| VCH1 | Select Video Input 1 |
| VCH2 | Select Video Input 2 |
| VCH3 | Select Video Input 3 |
| VCH4 | Select Video Input 4 |
| VCH5 | Select Video Input 5 |
| VCH6 | Select Video Input 6 |
| VCH7 | Select Video Input 7 |
| VCH8 | Select Video Input 8 |

To enable or disable blocking, select the video channel (**VCH1** to **VCH8**) menu item in menu level 4. Use the toggle switch to set the blocking parameter in menu level 5 of **VCH1** to **VCH8** individually.

- | | |
|-------------|----------------|
| EN | Enable Channel |
| BLOK | Block Channel |



Without the correct password, the blocking or enable setting of each channel cannot be changed. The current Block or Enable status can only be viewed in menu level 5.

4.2.9. Setting the Orientation of the Text on the Card Edge Display

The **DISP** display option allows the user to set a horizontal or vertical orientation for the card edge display messages. To set the display orientation, select the **CTRL** menu item in menu level 1, then use the toggle switch to display the **DISP** menu selection and use the pushbutton to select it. Use the toggle switch to change between **HOR** and **VERT**. Press the pushbutton to make your selection.

<i>CTRL</i>
<i>DISP</i>
<i>HORZ</i>
<i>VERT</i>

This control enables the user to select the display orientation.

HOR Horizontal display used when the module is housed in the 1 rack unit 7701FR frame or the stand-alone enclosure.

VERT Vertical display used when the module is housed in the 3-rack unit 7700FR frame.

4.2.10. Resetting Factory Defaults

The **FRST** menu option will return the 7707CVR-8 to factory defaults. To return all settings to factory defaults, select the **CTRL** menu item in menu level 1, then use the toggle switch to display the **FRST** menu selection and use the pushbutton to select it. Use the toggle switch to change between **YES** and **NO**. Press the pushbutton to make your selection.

<i>CTRL</i>
<i>DISP</i>
<i>YES</i>
<i>NO</i>

This control enables the user to reset the setting to factory default.

YES Return all card settings to factory default.

NO Retain current settings. Abort the factory reset operation.

5. JUMPERS

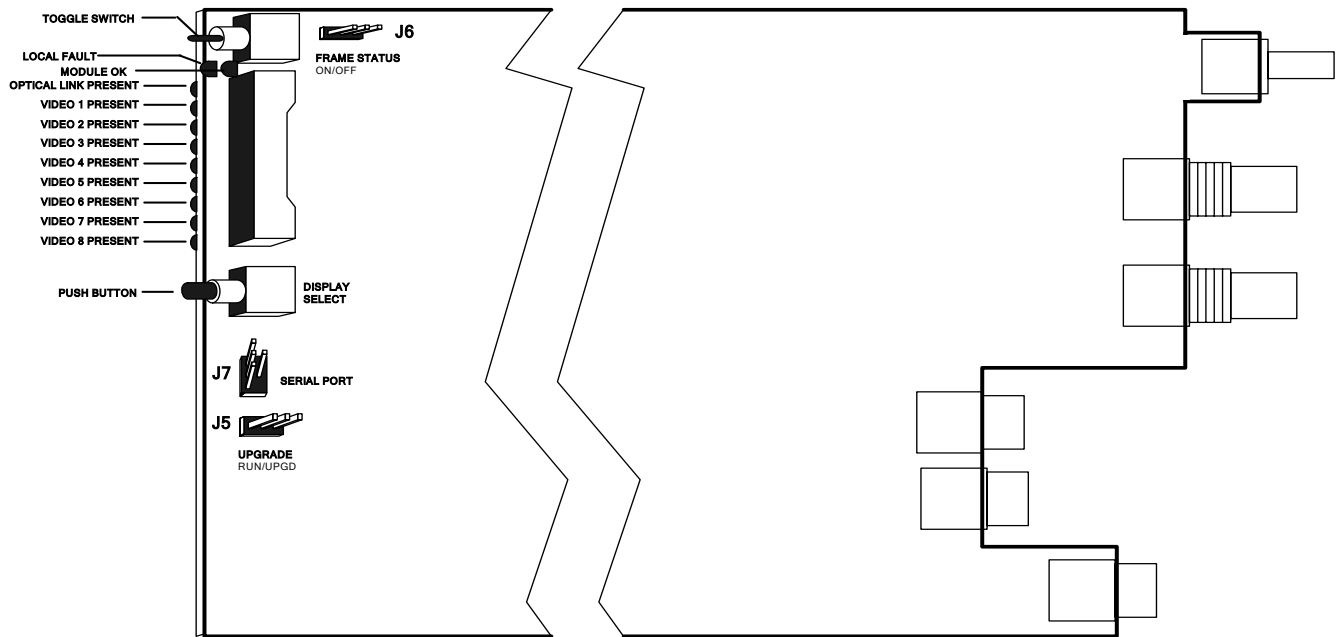


Figure 5-1: Location of Jumpers and Card Edge Controls

5.1. SELECTING WHETHER LOCAL FAULTS WILL BE MONITORED BY THE GLOBAL FRAME STATUS

The FRAME STATUS jumper J6 determines whether local faults (as shown by the Local Fault indicator) will be connected to the 7700FR frame's global status bus.

FRAME STATUS: To monitor faults on this module with the frame status indicators (on the Power Supply FRAME STATUS LED's and on the Frame's Fault Tally output) install this jumper in the On position. (Default)

When this jumper is installed in the Off position local faults on this module will not be monitored.

5.2. CONFIGURING THE MODULE FOR FIRMWARE UPGRADES

UPGRADE: The UPGRADE jumper J5 is used when firmware upgrades are being done to the module. For normal operation it should be installed in the *RUN* position. See the *Upgrading Firmware* chapter of this manual for more information.

To upgrade the firmware in the module unit pull it out of the frame. Move the UPGRADE jumper into the *UPGD* position. Install the Upgrade cable provided (located in the vinyl pouch in the front of this manual) onto the SERIAL header at the card edge. Re-install the module into the frame. Run the upgrade as described in the *Upgrading Firmware* section of this manual. Once the upgrade is complete, remove the module from the frame, move the UPGRADE jumper into the *RUN* position, remove the upgrade cable and re-install the module. The module is now ready for normal operation.

6. VISTALINK[®] REMOTE MONITORING/CONTROL

6.1. WHAT IS VISTALINK[®]?

VistaLINK[®] is Evertz's remote monitoring and configuration platform which operates over an Ethernet network using Simple Network Management Protocol (SNMP). SNMP is a standard computer network protocol that enables different devices sharing the same network to communicate with each other. VistaLINK[®] provides centralized alarm management, which monitors, reports, and logs all incoming alarm events and dispatches alerts to all the VLPro Clients connected to the server. Card configuration through VistaLINK[®] PRO can be performed on an individual or multi-card basis using simple copy and paste routines, which reduces the time to configure each module separately. Finally, VistaLINK[®] enables the user to configure devices in the network from a central station and receive feedback that the configuration has been carried out.

There are 3 components of SNMP:

1. An SNMP manager also known as a Network Management System (NMS) is a computer running special software that communicates with the devices in the network. Evertz VistaLINK[®] Pro Manager graphical user interface (GUI), third party or custom manager software may be used to monitor and control Evertz VistaLINK[®] enabled fiber optic products.
2. Managed devices (such as 7707CVT-8 and 7707CVR-8 cards), each with a unique address (OID), communicate with the NMS through an SNMP Agent. Evertz VistaLINK[®] enabled 7700 series modules reside in the 3RU 7700FR-C MultiFrame and communicate with the manager via the 7700FC VistaLINK[®] frame controller module, which serves as the Agent.
3. A virtual database known as the Management Information Base (MIB) lists all the variables being monitored and which both the Manager and Agent understand. Please contact Evertz for further information about obtaining a copy of the MIB for interfacing to a third party Manager/NMS.

For more information on connecting and configuring the VistaLINK[®] network, see the 7700FC Frame Controller chapter.

6.2. VISTALINK® MONITORED PARAMETERS

The following parameters can be remotely monitored through the *VistaLINK®* interface.

Parameter	Description
Video 1 to 8 Standard	A range of values describing the detected video signal
Video 1 to 8 Signal Valid	Indicates the valid video signal
Optical Power and Threshold	A range of values describing optical power at the fiber input and if this value is below user set threshold
Optical Link	Indicates the presence of a valid optical link with a 7707CVT-8 module
Optical Link Error	Indicates the presence of optical link errors if errors exists
Card Type	Indicates either 7707CVR-8, 7707CVR-8-H card type.

Table 6–1: *VistaLINK®* Monitored Parameters

6.3. VISTALINK® CONTROLLED PARAMETERS

When the MASTER jumper is set to the REMOTE position, the following parameters can be remotely controlled through the *VistaLINK®* interface. When the MASTER jumper is set to the LOCAL position the local jumper settings will override the settings configured through the *VistaLINK®* interface.

Parameter	Description
Video 1 to 8 DC Offset	A range of values describing DC Offset at the Video output (1 to 8)
Video 1 to 8 Gain	A range of values describing Gain of Video 1 to 8 output as a percentage (100 % = unity gain)
Video 1 to 8 EQ	A range of values describing the pre-emphasis being applied to the Video 1 to 8 output
Video 1 to 8 Blocking	Allows user to block channels 1 to 8
New Password	Allows user to change current password
Optical Power Alarm Threshold	Controls the power alarm threshold. VLPro Control Parameter Only.

Table 6–2: *VistaLINK®* Controlled Parameters

6.4. VISTALINK® TRAPS

The following traps can be remotely monitored through the VistaLINK® interface.

Trap	Description
Video Input 1 to 8 Invalid	Indicates a valid video signal on Channel 1 to 8 NOTE: Always loss on blocked channel
Link Presence	Shows if the optical link is established
Link Errors	Indicates the presence of bit errors in the optical link
Optical Power Below Threshold	Indicates whether or not received optical power is below the set threshold

Table 6–3: VistaLINK® Traps