OGCP-9000/CC Remote Control Panel



Product Manual



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Congratulations on choosing the OGCP-9000/CC Remote Control Panel. Should you have questions pertaining to the installation or operation of your OGCP-9000/CC Remote Control Panel, please contact us at the contact information on the front cover.

Manual No.:	OGCP-9000/CC-OM
Document Version:	2.5
Release Date:	August 29, 2016

Important Safety Instructions

	Read these instructions.	
	Keep these instructions.	
	Heed all warnings.	
_	Follow all instructions.	
	Do not use this apparatus near water.	
∠!∖ Warning	Clean only with a dry cloth.	
	Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.	
Warning	Do not defeat the safety purpose of polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.	
	Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.	
A	Only use attachments/accessories specified by the manufacturer and in this manual.	
∠!_ Warning	Unplug this apparatus during lightning storms or when unused for long periods of time.	
Warning	Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.	
Warning	Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.	
A Warning	The AC mains power receptacle on the rear of the apparatus shall only be connected by means of the power cord supplied with this apparatus. No other devices or cables shall be connected to this connector. If the supplied AC power cord is damaged or lost, it shall only be replaced using the AC power cord specified in this manual or by the manufacturer.	
	To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.	
Warning	Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.	
	To reduce the risk of fire, replacement fuses shall be the same type and rating as installed and as specified on the rear label adjacent to the power receptacle fuse holder.	

(Français) Consignes de sécurité importantes

	Lisez ces consignes.	
-	Conservez ces consignes.	
	Observez tous les avertissements.	
	Suivez toutes les consignes.	
^	N'utilisez pas cet appareil près de l'eau.	
Avertissement	Nettoyez l'appareil avec un chiffon sec uniquement.	
	N'installez pas l'appareil près d'une source de chaleur (radiateurs, bouches d'air, poêle, amplificateurs, etc.).	
Avertissement	Ne tentez pas de contourner la protection offerte par la fiche polarisée ou avec mise à la terre. Une fiche polarisée est dotée de deux lames dont l'une est plus large que l'autre. Une fiche avec mise à la terre est dotée de deux lames et d'une broche de mise à la terre. La lame large et la broche de mise à la terre sont des dispositifs de sécurité. Si la fiche de l'appareil ne convient pas à la prise murale, demandez à un électricien de remplacer celle-ci.	
-	Ne placez pas le câble d'alimentation de façon qu'il soit possible de le piétiner ou de le pincer, surtout au niveau de la fiche, de la prise et de l'appareil.	
\wedge	Utilisez uniquement les fixations et accessoires spécifiés par le fabricant et dans le présent manuel.	
Avertissement	Débranchez l'appareil durant les orages et lorsqu'il n'est pas utilisé durant de longues périodes.	
Avertissement	Confiez toute réparation à du personnel qualifié. L'appareil doit être réparé s'il a été endommagé (appareil, câble d'alimentation ou fiche, liquide renversé ou chute d'objets à l'intérieur, exposition à l'humidité excessive ou à l'eau, mauvais fonctionnement ou chute de l'appareil).	
Avertissement	Votre appareil ne doit pas être exposé aux fuites goutte à goutte ou aux éclaboussures et aucun objet rempli de liquide, par exemple un vase, ne doit être placée sur l'appareil.	
Avertissement	La prise d'alimentation à l'arrière de l'appareil doit être utilisée uniquement avec le câble fourni. Aucun autre câble ne doit être branché sur cette prise. Si le câble d'alimentation fourni est perdu ou endommagé, il doit être remplacé par celui indiqué dans le présent manuel ou spécifié par le fabricant.	
	Pour réduire les risques d'incendie ou de choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.	
Avertissement	Danger d'explosion si la batterie est remplacée incorrectement. Remplacez uniquement avec le même type ou équivalent.	
	Pour réduire le risque d'incendie, le fusible doit être remplacé par un du même type et de la même capacité (voir l'étiquette apposée à côté du porte-fusible).	

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Chapter 1

Introduction

Overview

This manual provides installation and operating instructions for the OGCP-9000/CC Remote Control Panel (also referred to herein as the Control Panel).

The manual consists of the following chapters:

- Chapter 1, "Introduction" Provides information about this manual and what is covered. Also provides general information regarding the OGCP-9000/CC Remote Control Panel.
- Chapter 2, "Installation and Setup" Provides instructions for installing the OGCP-9000/CC Remote Control Panel, and connecting the OGCP-9000/CC Remote Control Panel to the system in which it is intended to operate.
- Chapter 3, "Operating Instructions" Provides instructions for using the OGCP-9000/CC Remote Control Panel to monitor and control Cobalt 9084 Color Corrector cards.
- Appendix A, "Supplemental Information" Provides supplemental information for configuring the Control Panel. Also provides examples of using the Control Panel Color Corrector function.

The OGCP-9000/CC Remote Control Panel conveniently and intuitively provides parameter monitor and control specifically suited for use with the Cobalt 9084 HD/SD SDI Color Corrector with Frame Sync card. (The 9084 Color Corrector is an RGB corrector with YCbCr proc features and frame sync that can process HD/SD-SDI signal in all formats.) The OGCP-9000/CC Remote Control Panel allows quick access for the control of gain, gamma, and black levels for each of the RGB channels using 13 control knobs. The settings made using the knobs are correspondingly displayed on a large LCD display. This allows intuitive, fast, and precise control of the 13 primary color corrections parameters.

Although specifically designed with special emphasis for use with 9084 Color Corrector cards, the OGCP-9000/CC Remote Control Panel conveniently and intuitively provides parameter monitor and control of any video and audio processing terminal equipment meeting the open-architecture openGear^{®1} standard for Cobalt[®] COMPASS[®] and FUSION3G[®] cards. It installs in a standard 19" EIA equipment rack, and is 2 RU high. All communication with the frame occurs over an Ethernet network, allowing fast interaction with multiple frames.

The OGCP-9000/CC is totally compatible with the openGear[®] control software DashBoardTM; any changes made with either system are reflected on the other.

This chapter contains the following information:

- Manual Conventions (p. 1-2)
- Safety Summary (p. 1-4)
- Technical Specifications (p. 1-4)
- Warranty and Service Information (p. 1-6)
- Contact Cobalt Digital Inc. (p. 1-7)

Manual Conventions

In this manual, all keys, displays, and connectors are shown using the exact name shown on the Control Panel itself. Examples are provided below.

- Keys are shown like this: Select Device
- Display messages are shown like this:

Chroma 98.9%

• Connector names are shown like this: ETHERNET 10/100

In this manual, the terms below are applicable as follows:

- Control Panel refers to the OGCP-9000/CC Control Panel.
- Frame refers to the HPF-9000, OG3-FR, 8321 (or similar) 20-slot frame that houses the Cobalt Digital Inc. COMPASS[®] and/or FUSION3G[®] cards.
- Device and/or Card refers to a COMPASS[®] and/or FUSION3G[®] card.
- System and/or Video System refers to the mix of interconnected production and terminal equipment in which the Control Panel and COMPASS[®] and/or FUSION3G[®] cards operate.

1. openGear® is a registered trademark of Ross Video Limited. DashBoardTM is a trademark of Ross Video Limited.

Warnings, Cautions, and Notes

Certain items in this manual are highlighted by special messages. The definitions are provided below.

Warnings

Warning messages indicate a possible hazard which, if not avoided, could result in personal injury or death.

Cautions

Caution messages indicate a problem or incorrect practice which, if not avoided, could result in improper operation or damage to the product.

Notes

Notes provide supplemental information to the accompanying text. Notes typically precede the text to which they apply.

Labeling Symbol Definitions

	To reduce risk of electric shock DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL CONNECT AC POWER CORD TO PROPERLY GROUNDED AC OUTLET THIS APPARATUS MUST BE EARTHED
\triangle	Attention, consult accompanying documents.
	 Symbol (WEEE 2002/96/EC) For product disposal, ensure the following: Do not dispose of this product as unsorted municipal waste. Collect this product separately. Use collection and return systems available to you.

Safety Summary

Warnings

! WARNING !	 To reduce risk of electric shock DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	CONNECT AC POWER CORD TO PROPERLY GROUNDED AC OUTLET.
Cautions	
CAUTION	This device is intended for environmentally controlled use only in appropriate video terminal equipment operating environments.
CAUTION	Do not edit or alter the file contents preceding the ## start of Device Definitions ## section.
CAUTION	When performing the firmware update, use only the files provided by Cobalt Digital Inc. and obtained as described here.

Technical Specifications

Table 1-1 lists the technical specifications for the OGCP-9000/CC Control Panel.

Item	Characteristic
Part number, nomenclature	OGCP-9000/CC Remote Control Panel
AC power requirements	90 to 264 VAC, 47-63 Hz (automatically sensed)
AC power inlet	IEC C14 chassis receptacle with 2-position integral fuse holder. Fuse type: Two, 500 mA, 250 V, 5 x 20 mm fast-action
AC power cord (standard and available alternatives)	Image: Second constraints Image:

Table 1-1 Technical Specifications	Table 1-1	Technical Specifications
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Item	Characteristic
Auxiliary DC power inlet	Locking connector, 12 VDC @ 1 A max
Connector Polarity (as viewed from rear panel) Note: Optional mating male connector not supplied. Order Cobalt PN 5030-0002-000R or Conxall PN 16282-3SG-311.	GND +12 VDC 12VD
Power consumption	9 Watts maximum
Environmental: Operating temperature: Relative humidity (operating or storage):	32° – 104° F (0° – 40° C) < 95%, non-condensing
Installation dimensions	Standard EIA 19 in. rack mounting 2RU height 5 in. (127 mm) depth (not including component projections)
Frame communication	10/100 Mbps Ethernet with Auto-MDIX using RJ-45 receptacle. DC isolation provided.
Auxiliary communication ports	 GPIO; 12 GPI (opto-isolated), 16 GPO TIA/EIA-422 and TIA/EIA-485 using Phoenix terminal blocks TIA/EIA-232 using female DB-9 receptacle Two USB ports (reserved)
Display	LCD display: • 3.75 x 2.25 in. W x H (95 x 57 mm) • 500 cd/m ² , 300:1 contrast ratio. Adjustable brightness.
Controls	 Control knobs for R, G, and B channels with Gain, Gamma, and Black level controls for each channel (9 total controls)
	 Four control knobs; flexible function based on operating mode. Numeric keypad and control buttons

Table 1-1	Technical Specifications — continued

Warranty and Service Information

Cobalt Digital Inc. Limited Warranty

This product is warranted to be free from defects in material and workmanship for a period of five (5) years from the date of shipment to the original purchaser, except that 4000, 5000, 6000, 8000 series power supplies, and Dolby[®] modules (where applicable) are warranted to be free from defects in material and workmanship for a period of one (1) year.

Cobalt Digital Inc.'s ("Cobalt") sole obligation under this warranty shall be limited to, at its option, (i) the repair or (ii) replacement of the product, and the determination of whether a defect is covered under this limited warranty shall be made at the sole discretion of Cobalt.

This limited warranty applies only to the original end-purchaser of the product, and is not assignable or transferrable therefrom. This warranty is limited to defects in material and workmanship, and shall not apply to acts of God, accidents, or negligence on behalf of the purchaser, and shall be voided upon the misuse, abuse, alteration, or modification of the product. Only Cobalt authorized factory representatives are authorized to make repairs to the product, and any unauthorized attempt to repair this product shall immediately void the warranty. Please contact Cobalt Technical Support for more information.

To facilitate the resolution of warranty related issues, Cobalt recommends registering the product by completing and returning a product registration form. In the event of a warrantable defect, the purchaser shall notify Cobalt with a description of the problem, and Cobalt shall provide the purchaser with a Return Material Authorization ("RMA"). For return, defective products should be double boxed, and sufficiently protected, in the original packaging, or equivalent, and shipped to the Cobalt Factory Service Center, postage prepaid and insured for the purchase price. The purchaser should include the RMA number, description of the problem encountered, date purchased, name of dealer purchased from, and serial number with the shipment.

Cobalt Digital Inc. Factory Service Center

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Contact Cobalt Digital Inc.

Feel free to contact our friendly and professional support representatives for any of the following:

- Name and address of your local dealer
- Product information and pricing
- Technical support
- Upcoming trade show information

Phone:	(217) 344-1243
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Chapter 2

Installation and Setup

Overview

This chapter contains the following information:

- Installing the Control Panel in Equipment Rack (p. 2-1)
- Connecting the Control Panel Cabling (p. 2-2)

Installing the Control Panel in Equipment Rack

Install the Control Panel in an equipment rack as follows:

- 1. Select a mounting location within the rack that offers proper access and meets the following requirements:
 - Standard EIA 19 in. rack mounting
 - 2RU height
 - 7 in. (17.8 cm) minimum available depth
- **Note:** The Control Panel does not require any special ventilation clearance.
 - 2. Place the Control Panel in rack mounting position. Start four $10-32 \times 3/4$ machine screws and nylon washers which secure the Control Panel to the rack.
 - 3. Evenly tighten the four Control Panel securing screws.

Connecting the Control Panel Cabling

Refer to Figure 2-1 for the Control Panel rear panel connectors. Perform Control Panel connections as described below.

	Image: state stat						
No.	Description	Comments					
1	AC Power Input Connector	IEC C14 female receptacle. 90-240 VAC, 47-63 Hz, auto-sensing Dual fused; 500 mA, 250 V 5mm x 20mm					
2	DC Power Input Connector	3-wire female locking connector with connections for GND and +12 VDC. For use with optional external DC power supply (Cobalt PN PS-24). Provides redundant power source when used with external DC power supply. Also allows use where power is supplied from distributed DC power system using optional connector (Cobalt PN 5030-0002-000R; Conxall PN 16282-3SG-311).					
3	GPIO Connector Bank	Special use. Not used for typical installation. 12 general-purpose input signals allow outside devices to control the currently displayed processing card, which enables automatic router following on QC stations, or interfacing with simple button boxes for special applications. 16 general-purpose output signals can be used to indicate the currently selected card.					
4	TIA/EIA-422, TIA/EIA-485 Connector Bank	Special use. Not used for typical installation.					
5	ETHERNET 10/100 Connector RJ-45 10/100 Ethernet connection to fra						
6	TIA/EIA-232-F Connector	DB-9 TIA/EIA-232 serial control/alarm port. Special use. Not used for typical installation.					
7	USB Connector	Reserved for future use					

Figure 2-1 Control Panel Rear Panel Connectors

 Using a CAT5 RJ-45 jumper cable (not supplied), connect the ETHERNET 10/100 connector to the Ethernet switch that links the Control Panel to its LAN environment. Figure 2-2 shows an example LAN interconnection used with the Control Panel and a frame equipped with a required Network Controller Card (Cobalt PN MFC-8320-N or equivalent).



Figure 2-2 Example Control Panel LAN Interconnections

- **2.** Connect the power cord (supplied) to the rack power strip, but do not apply power yet. Connect the IEC connector on the power cord to the female IEC on the Control Panel.
- **3.** Apply power to the cord connected to the Control Panel.

Upon power-up verify that the COBALT[®] opening screen (shown below) is shown on the Control Panel front panel screen. This verifies the Control Panel self-test.



4. Proceed to Chapter 3,"Operating Instructions".

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Chapter 3

Operating Instructions

Overview

This chapter contains the following information:

- Control and Display Descriptions (p. 3-1)
- Network Setup (p. 3-6)
- Using the Control Panel To Select and Monitor Frame Cards (p. 3-7)
- Troubleshooting (p. 3-21)

Control and Display Descriptions

Control and Display Overview

Depending on the parameter displayed, the control knobs simulate potentiometer controls or selector switches (as shown in Figure 3-1).

Figure 3-2 shows and describes the Control Panel front panel control knobs, keys, and the display.

- **Note:** Although the keypad and **Enter** key can always be used to enter a selection, where the Control Panel displays a list of selection options it is more convenient to simply rotate a knob to select the option, and then press the knob in to enter the selection.
 - For numeric parameters (such as level settings), the knob ballistics are such that rapid rotation of the knob yields coarse wide-span adjustment of the parameter. Slower or incremental rotation of the knob yields correspondingly finer adjustment, eventually providing step adjustment corresponding to the decimal precision of the displayed value.
 - The keypad keys are backlighted in modes where the key can be used. If a key is not applicable to a particular mode or configuration of the Control Panel, the key is not backlit.



Figure 3-1 Basic Display/Knob Function

Numeric Keypad	Selection Keypad	Color Corrector Channel Controls				
-		lack 0.0				
COBALT. 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	Chroma Colo	r Phase 0.0 70.0 1.000 5.0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				
Special Func Key Subse		y Multi-Function Control Knobs (1 of 4)				
Item		Function				
Numeric Keypad	 Allows optional keypad numeric entry of parameter settings (as opposed to using a knob). Allows entry of Control Panel network parameters. 					
Selection Keypa	ıd					
Select Device key	• Select the device to be monitored I any knob in (or press the Enter ke	st of devices controlled by the Control Panel. by rotating any knob until the desired device is highlighted. Press y) to select the device. its device list number. Press any knob in (or press the Enter key)				
Select Submenu key	 Press Select Submenu to display a list of submenus for the selected device. Each submenu consists of parameter groups and/or display modes for the card. Select the submenu to be monitored by rotating any knob until the desired submenu is highlighted. Press any knob in (or press the Enter key) to select the submenu. Directly go to a submenu by entering its list number. Press any knob in (or press the Enter key) to go to the submenu. 					
Cancel key Enter key	Used to either cancel or confirm entries used with numeric keypad regardless of current mode.					
Special Function key subset	These function available only with the Control Panel in the Color Corrector display/control submenu. See Color Corrector Display/Control Submenu (p. 3-4) for descriptions.					
Multi-Function Control Knobs Used to adjust parameter displayed adjacent to the knob. Up to four parameters are simultar displayed, with the four knobs corresponding to four areas on the display. Rotate the knob to value of the displayed parameter. The parameter change is received by the device, with the value displayed being the actual value as effected by the device.						
	Note: See Color Corrector Display/Control Submenu (p. 3-4) for control descriptions with the Control Panel in the Color Corrector display/control submenu.					
Display	 Displays the list of devices controlled When a device has been selected ar selected parameters are now display 	nd a parameter group for the device has been selected, the				
		control Submenu (p. 3-4) for display descriptions with the rector display/control submenu.				

Figure 3-2 OGCP-9000/CC Remote Control Panel Controls and Display Overview

Color Corrector Display/Control Submenu

Color Corrector Controls

When the Color Corrector display/control submenu is selected (as shown in Figure 3-3), the Control Panel allows the user to simultaneously display 13 color correction parameter settings of a selected Cobalt 9084 Color Corrector card and, in turn, remotely adjust each parameter value using a corresponding control knob with no keypad intervention being required. Figure 3-3 provides an overview of the Control Panel color corrector controls and displays.





Special Function Key Subset

When the Control Panel is in the Color Corrector display/control submenu as shown and described above, the bottom row of the keypad (identified as **Special Functions**) provides special functions as described and shown in Figure 3-4.

COBAL ¢ Special Function CLPG	1 2 3 5 6 Submenu 7 8 9 Carcel
Кеу	Function
Enter Proc Bypass	 When pressed, toggles between Video Processor + Color Corrector On and Video Processor + Color Corrector Off (Bypassed). Note: Processor status is not shown on the Color Corrector display/control screen. However, the current status is displayed on the Submenu 2 Enable Bypass screen.
Proc Unity	 When pressed and held, sets all Color Corrector display/control parameters to unity settings. Note: • It may take a few seconds for all parameters to go to unity settings. Do not release the key until all parameters display unity values. • Proc Unity key is functional only when Color Corrector display/control screen (Submenu 1. Color Corrector) is being displayed.
Memory Store	 When pressed, stores the all of the currently displayed Color Corrector display/control parameters. Note: • Hold the key for at least 1 second. • Memory Store key is functional only when Color Corrector display/control screen (Submenu 1. Color Corrector) is being displayed. • If new settings are to be stored after Memory Store is pressed, simply press Memory Store again. The previous values will be overwritten by the new values.
0 Hemory Recall	 When pressed, recalls and applies the previously stored Color Corrector display/control parameters stored for Memory Store. Note: • Hold the key for at least 1 second. • Memory Recall key is functional only when Color Corrector display/control screen (Submenu 1. Color Corrector) is being displayed.

Figure 3-4 Special Functions Key Subset

Network Setup

Typically, your Control Panel is delivered with all network settings and card assignments configured per your instructions for your frames and cards that are to be controlled by the Control Panel. This is facilitated by the "Setting Up Your Cobalt[®] Remote Control Panel" fill-in sheet that we offer you, or per your instructions.

- If your Control Panel **is** configured with your custom settings, it is now ready for use. Proceed to Using the Control Panel To Select and Monitor Frame Cards below.
- If your Control Panel **is not** configured with your custom settings, the Control Panel must first be configured to work with your network and the frames to be controlled by the Control Panel. These configuration changes are easily accomplished using the instructions in Appendix A, Supplemental Information.

Using the Control Panel To Select and Monitor Frame Cards

Select devices (cards) and monitor/adjust the card parameters as described in this section.

Device and Parameter Submenu Overview

Each device has its user parameters organized into **submenu** groups, as shown in the example below.



Figure 3-5 shows how a device and its respective submenus are organized, and also provides an overview of how to navigate between devices and submenus.



Figure 3-5 Device and Parameter Submenu Overview

Selecting a Device

1. Press the **Select Device** key. The Select Device screen is displayed (as shown in the example below).



- 2. Select a device by either:
 - Rotating any knob to select from the list of devices. When the desired device is selected in the display, press any knob in to display the device.
 - Directly entering the device list number using the numeric keypad, and then pressing **Enter** or pressing in any knob).

When the selected device is displayed, device parameters are displayed (as shown in the example below).



Displaying and Adjusting Device Parameters

1. Display parameter submenus by pressing the **Select Submenu** key. The available parameter group choices are displayed on the display (as shown in the example below).



- 2. Select a submenu by either:
 - Rotating any knob to select from the list of submenus. When the desired submenu is selected in the display, press any knob in to display the submenu. (The example below now shows submenu "3 Luma and Chroma Clip" displayed.) Enter the submenu by pressing any knob in.
 - Directly entering the submenu list number using the numeric keypad, and then pressing **Enter** or pressing in any knob).



3. Depending on the type of parameter displayed, change the setting as follows:

Parameter Type:	Ch	ange setting by:
Numeric (scalar) value using knob to adjust ⁽¹⁾	 Rotate the knob adjacent to the parameter to select the desired setting. The displayed value is now the current setting for the parameter. No further action is required. Note: Holding knob in sets value to default setting where applicable. 	Rotate the knob clockwise to increase the value of the corresponding parameter Rotate the knob counter-clockwise to reduce the value
Selection from list using knob to select	 Press the knob adjacent to the parameter. The parameter is now displayed in reversed background, indicating a selection can now be made. The available choices for the parameter are now displayed below the item. Rotate the knob adjacent to the parameter to select from the available choices. 	Reversed background indicates parameter is selected Rotate the knob adjacent to the parameter to select from available choices
	 After selecting a change, press the knob adjacent to the parameter to apply the change. The changed value is now the current setting (as shown in the example here). 	Changed value
Numeric value or selection from list using keypad	 background, indicating a change can not over the destination of the numeric keypad, enter the destilist). The <i>key clears each keystroke reverts to the original setting.</i> Press the knob adjacent to the parameter of the destination of the dest	er. The parameter is now displayed in reversed ow be made. sired changed numeric value (or selection from e. The Cancel key clears the entire entry and er (or press the Enter key) to apply the change. d by red text being displayed. Press Cancel key

Note: Although the Color Corrector display/control submenu allows parameter adjustment in the manner as described above for "Numeric (scalar) value using knob to adjust", this mode uses dedicated control knobs for the various parameters.

Refer to Color Corrector Display/Control Submenu (p. 3-4) for an overview of these control knobs and displays.

- 4. To select another parameter group for the currently displayed device, press **Select Submenu** and select the parameter group as described in steps 1 and 2 above.
- 5. To select another device, do either of the following:
 - (Device list numbers 1 through 9 only.) **Jump directly to a different device** by simply entering the device list number of the new device.
 - Press **Select Device** and select the device as described in Selecting a Device (p. 3-9).
- **Note:** If a different device is selected, submenu and parameter value settings are retained for the previous device. When the previous device is again selected, its settings are again displayed and take effect.

3

OGCP-9000/CC-OM (V2.5)

Using the Parameter Gang Settings Submenu

Note: Gang settings apply only to certain Color Corrector controls used in Submenu **1 Color Corrector**.

Submenu **4 Gang Settings** allows certain groups of Color Corrector parametric controls to be ganged together, thereby providing convenient and precise adjustment of values across all channels or multiple parameters as applicable.

Apply gang settings as follows:

1. Determine the gang setting desired. The **Gang Settings** submenu has three choices as described below.



2. Press the **Select Submenu** key and select submenu **4 Gang Settings**. The display shown below appears.



- **3.** Apply the desired gang settings by rotating the knobs corresponding to the desired ganging to set ganging to **On** or **Off**.
- Note: If the Special Function keys (as described in Special Function Key Subset (p. 3-5)) are used for **Proc Bypass**, or if Color Corrector settings are recalled using **Memory Recall** all gang settings will revert to default **Off**.

If ganging is again desired, re-apply gang settings as described in this section.

Using the Enable/Bypass Submenu

Submenu **2 Enable/Bypass** allows the Color Corrector group of parametric controls and/or the Video Processor group of parametric controls to be gang enabled (**On**) or gang bypassed (**Off**), thereby providing a convenient means to prevent inadvertent changes of value settings.

- When set to **On**, corresponding control knobs function normally, allowing adjustment changes to be displayed, along with corresponding changes in parameters to be effected.
- When set to **Off**, corresponding control knobs allow any adjustment change to be displayed and held, but not passed along to the selected 9084 card, thereby inhibiting any changes.

The control functions controlled by the Enable/Bypass submenu are as follows:

Enable/Bypass Selector	Related Controls		
Color Corrector	• Enables or bypasses all Individual RGB Gain , Gamma , and Black controls (9 total) as shown in Figure 3-3 on page 3-4		
Video Proc	 Enables or bypasses the four multi-function submenu 1 Color Corrector control knobs as shown in Figure 3-3 on page 3-4: Video Chroma Black Color Phase Enables or bypasses the submenu 3 Luma and Chroma Clip controls: Black Hard Clip White Soft Clip White Hard Clip Chroma Saturation Clip 		

Note: Previous gang settings are retained regardless of **Enable/Bypass** submenu settings.

Apply the Enable/Bypass settings as follows:

1. Press the **Select Submenu** key and select submenu **2 Enable/Bypass**. The display shown below appears.



 Set Color Corrector or Video Proc group to enabled (On) or bypassed (Off) by pressing the corresponding knob in. A display similar to shown below appears.



- **3.** Apply the desired settings by rotating the knob corresponding to the desired group to **On** or **Off**. Press the knob in to enter the setting.
- **Note:** When a parameter group is set to bypass, all of the corresponding parameters revert to default/unity.
 - When a parameter group is changed from bypass (**Off**) to Enable (**On**), the previously active settings (or any setting changes performed using the control knobs) are reinstated.
 - If **Memory Recall** is used to recall settings, the recalled settings are displayed. However, settings will not be passed along to the selected 9084 card unless the corresponding parameter group is set to Enable (**On**).

System Information/User Interface Functions

The System Information/User Interface Functions mode allows the user to:

- Check current network settings of the Control Panel.
- Check system information related to the Control Panel.
- Set user preferences such as backlight brightness ("Backlight Level") of the Control Panel display.

This mode has no effect on functional operation of the Control Panel.

Checking Current Network Settings

Check current network settings of the Control Panel as follows:

- 1. Press the **Select Device** key and then press the **0** key.
- 2. Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
- 3. Rotate any knob to select

1 Current Network Settings

- **4.** Press any knob in to display current network settings. An example of this display is shown below.
- Note: Where the Lock icon () appears, this indicates values cannot be changed in the currently displayed screen. Where the "P" icon (P) appears, this indicates to press the adjacent knob to open the value for editing.



- 5. Exit the Current Network Settings screen as follows:
 - Press the **Select Submenu** key to go to other choices in the User Interface mode.
 - Press the **Select Device** key to exit the User Interface Mode and go to the normal operating mode.

Checking System Information

The System Information screen shows application build, kernel build, and processor version information for the Control Panel. Check system information as follows:

- 1. Press the **Select Device** key and then press the **0** key.
- 2. Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
- 3. Rotate any knob to select

3 System Information

4. Press any knob in to display current system information. An example of this display is shown below.

•	Application Build 176-CA Local Settings	Kernel Build Jan 28 2009	۲	
	Processor Version 627		3407.338	MA.JPG

- 5. Exit the Current Settings screen as follows:
 - Press the **Select Submenu** key to go to other choices in the User Interface mode.
 - Press the **Select Device** key to exit the User Interface mode and go to the normal operating mode.
Setting User Interface Preferences

The Control Panel User Interface submenu allows display appearance and knob/key hold time preferences to be set as described below.

Adjust the backlight brightness level of the displays as follows:

- 1. Press the **Select Device** key and then press the **0** key.
- 2. Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
- 3. Rotate any knob to select

4 User Interface

- 4. Press any knob in to enter User Interface mode.
- **5.** Select the desired User Interface item (described below) by pressing the knob adjacent to the item and rotating the knob.

Item	Function
Color Theme	• Bright setting provides white background with black text.
	• Dim setting provides reversed background with white text and black background.
Backlight Level	With Color Theme set to Bright, adjusts the saturation of both the text and the background.
	With Color Theme set to Dim, adjusts the brightness of the text (background is always full black).
Key/knob hold time	Sets the required time (in seconds) that a knob or key must be held for the respective setting to return to its default value.

- 6. Exit the User Interface screen as follows:
 - Press the **Select Submenu** key to save the changes and go to other User Interface submenu choices.
 - Press the **Select Device** key to save the changes and exit the User Interface submenu screen.

Setting Knob Ballistics

The default knob ballistics provides rapid access to values across the range of an item while providing ease of fine adjustment. The ballistics can be tailored using the submenu described below.

- Note: This submenu may not be present on all Control Panels.
 - Settings resulting in very large adjustment spans may require very slow knob increment/decrement rotation to make a desired selection (especially for items in a list). Always test knob action when making changes. Knob ballistic setting can be reset to default by holding knob in.
 - 1. Press the **Select Device** key and then press the **0** key.
 - 2. Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
 - 3. Rotate any knob to select

5 Knob Ballistics

- 4. Press any knob in to enter Knob Ballistics mode.
- **5.** Listed and described below are the knob ballistics controls. Select the desired item by pressing the knob adjacent to the item and rotating the knob.

Item	Function
Jump Interval (major and minor)	 Greater settings allow for greater value increment or decrement accumulation while knob is being rotated. Lesser settings allow for finer value increment or decrement accumulation while knob is being rotated.
Jump Multiplier (major and minor)	 Greater settings allow for greater spans in value increment or decrement while knob is being rotated. Lesser settings allow for smaller spans in value increment or decrement while knob is being rotated.

Troubleshooting

In the event that the Control Panel does not function as described in this manual or as expected, use Table 3-1 to perform basic troubleshooting.

Symptom	Check	Corrective Action
Display is blank and not illuminated	 Make certain AC power (or auxiliary DC power if used) is present 	• Fix power as required.
	Blown fuse (located in IEC AC receptacle housing)	• The IEC AC receptacle on the rear of the Control Panel contains two fuses. Access the fuses by removing the power cord and opening the fuse door adjacent to the receptacle using a small flat-blade screwdriver.
		Check both fuses for continuity. Replace fuse(s) with the same value and type fuse (as identified on the label adjacent to the receptacle).
		CAUTION
		Replace fuses only with the same value and type as specified on the rear panel label.
		 Power up the Control Panel again. If fuse(s) blow again, contact Cobalt Digital Inc. Technical Support Department.
Display item shows dashes or blank spaces instead of value or selection (see example below). This indicates Control Panel may not be connecting with selected	Select another device and check the display.	• If other devices display properly, the device showing dashes or blanks may not be communicating with the Control Panel. Check the following:
device.		 Make certain the card is installed in the intended frame and slot location.
Black Hard Clip White Hard Clip		• If all other devices do not display properly, the Control Panel may not be connecting to the LAN. Check the following:
White Soft Clip Chroma Saturation Clip		 Make certain the Control Panel network settings are as expected. Apply the correct settings if required.
Dashes (instead of displayed value)		Note: Refer to Changing Control Panel/Frame Network Settings in Appendix A, "Supplemental Information" for Control Panel configuration instructions.
indicate Control Panel is not connecting with device		 Make certain the Control Panel Ethernet cable is properly connected and showing activity on the LAN switch. Use ping- to check the connection.

Symptom	Check	Corrective Action
Upon power-up, COBALT [®] opening screen is not displayed.		 With power applied to the Control Panel, reset the Control Panel by simultaneously holding the following keys: 1 / - Enter If the action above does not correct the problem, contact Cobalt Digital Inc. Technical Support Department
Signal processing does not respond to changes made with control knob	Processing Enable/Bypass may be set to Off .	Support Department. Make certain submenu 2 Enable/Bypass settings are as expected. If parameter control of a particular control function is required, its corresponding setting must be set to On . (Refer to Using the Enable/Bypass Submenu (p. 3-14) for more information.)

Table 3-1 Troubleshooting by Symptom — continued

In Case of Problems

Should any problem arise with your Control Panel that was not solved by the information in this section, please contact the Cobalt Digital Inc. Technical Support Department. (Contact information is supplied on the front cover of this manual.)

If required, a Return Material Authorization number (RMA) will be issued to you, as well as specific shipping instructions. If required, a temporary replacement Control Panel will be made available at a nominal charge. Any shipping costs incurred are the customer's responsibility. All products shipped to you from Cobalt Digital Inc. will be shipped collect.

The Cobalt Digital Inc. Technical Support Department will continue to provide advice on any product manufactured by Cobalt Digital Inc., beyond the warranty period without charge, for the life of the equipment.

See Contact Cobalt Digital Inc. (p. 1-7) in Chapter 1, "Introduction" for contact information.

Appendix A

Supplemental Information

Overview

This appendix provides supplemental information for using the Control Panel and provides information supporting special interfaces using the Control Panel.

This appendix contains the following sections:

- 9084 Color Corrector Parameter Quick-Reference (p. A-2)
- Color and Video Correction Examples Using the Control Panel (p. A-5)
- Changing Control Panel/Frame Network Settings (p. A-12)

9084 Color Corrector Parameter Quick-Reference

Table A-1 provides a quick-reference of parameters that are controlled by the Cobalt 9084 HD/SD SDI RGB Color Corrector with Frame Sync card, along with corresponding descriptions.

Note: Not all parameters specified in the 9084 Product Manual are user accessible using the Control Panel. Refer to Cobalt Product Manual "9084 HD/SD SDI RGB Color Corrector with Frame Sync" (PN 9084-OM) for more information about the 9084 card.

 Table A-1
 9084 Parameter Quick-Reference

Submenu	Displayed Parameter/ Item Name	Range or Format	Description
1. Color Corrector	Video (Luma Gain)	0.0 to 200.0	Gain percentage applied to luma (Y). 100.0 is unity default value.
	Chroma (Color Gain)	0.0 to 200.0	Gain percentage applied to chroma (C). 100.0 is unity default value.
	Black (Luma Lift)	-100.0 to 100.0	Lift percentage applied to luma (Y) in numeric equivalent of 10-bit code value. 0.0 is null default value.
	Color Phase	-360.0 to 360.0	Phase angle applied to chroma (C) in degrees (°). 0.0 ° is null default value.
	Note: Although the above par parameters are part of the Vic	rameters are display deo Processor funct	red in Submenu 1 Color Corrector , these ional group.
	Red Gain Green Gain Blue Gain	0.0 to 200.0	Separate red, green, and blue gain controls respectively apply gain percentage for R, G, and B channels. 100.0 is unity value.
	Red Gamma Green Gamma Blue Gamma	0.125 to 8.000	Separate red, green, and blue gamma controls respectively apply gamma curve adjustment for R, G, and B channels. 1.000 is null default value.
	Red Black Level Green Black Level Blue Black Level	-100.0 to 100.0	Separate red, green, and blue black level controls respectively apply lift percentage value for R, G, and B channels. 0.0 is null default value.

Appendix A

Submenu	Displayed Parameter/ Item Name	Range or Format	Description
2. Enable/Bypass	Color Corrector	On/Off	Enables or bypasses Color Corrector and/or Video Processor group functions.
	Video Proc	On/Off	Note: Refer to Using the Enable/Bypass Submenu (p. 3-14) in Chapter 3, "Operating Instructions" for a description of the Enable/Bypass submenu and function.
3. Luma and Chroma Clip	Black Hard Clip	-6.8 to 50.0	Applies black hard clip (limiting) at specified percentage. -6.8 is null default value.
	White Soft Clip	50.0 to 109.1	Applies white soft clip (limiting) at specified percentage. 109.1 is null default value.
	White Hard Clip	50.0 to 109.1	Applies white hard clip (limiting) at specified percentage. 109.1 is null default value.
	Chroma Saturation Clip	50.0 to 160.0	Applies chroma saturation clip (limiting) chroma saturation at specified percentage. 160.0 is null default value.
	Note: The parameters listed a	above are all part of	the Video Processor functional group.
4. Gang Settings	Gang Gain Controls	On/Off	Enables ganging of individual R, G, and B
	Gang Gamma Controls	On/Off	color corrector controls.
	Gang Video and Color Gain	On/Off	Enables ganging of Video and Chroma gain controls.
			Note: Refer to Using the Parameter Gang Settings Submenu (p. 3-13) in Chapter 3, "Operating Instructions" for a description of the Gang Settings submenu and function.
5. Framesync	Framesync Enable	1. On/Off 2. Reference 1 3. Reference 2 4. Input Video	Allows selection from four framesync sources. Off is default setting.
	Reset Framesync	-	Press knob to reset the framesync and its buffers. Re-establishes audio video sync after adjusting the horizontal and vertical offsets.

Table A-1	9084 Parameter Quick-Reference — continued

Appendix A

Submenu	Displayed Parameter/ Item Name	Range or Format	Description
6. Framesync Adjustment	Horizontal Offset	0 to 4125 (samples)	Applies additional horizontal offset.
	Vertical Offset	0 to 1124 (lines)	Applies additional vertical offset.
	Minimum Latency Frames	0 to 13 (frames)	Selects the minimum frames of latency allowed.
7. Presets	Selected Preset	Preset 1 thru Preset 16	Loads previously saved parameter settings. Provides for up to 16 unique saved presets.
	Preset Save	-	Press knob to save current settings into a selected preset (1 thru 16).
	Preset Load	-	Press knob to load a selected preset (1 thru 16).
	Reset Current Preset	-	Resets parameter settings stored in currently selected preset to default parameter settings.

Table A-1 9084 Parameter Quick-Reference — continued

Color and Video Correction Examples Using the Control Panel

Shown below are examples of using the Control Panel to provide parametric color and video correction.

On-Set Monitor Color Correction Example

A typical use for the Control Panel Color Corrector function is to provide color correction for a monitor when an anchor desk set includes a monitor, as shown in Figure A-1.

In the example setup shown in Figure A-1, a monitor is located behind the anchor desk. When the camera includes the monitor in its shot, typically the color balance of the monitor will appear to be incorrect due to the characteristics of the camera responding differently to the spectral light emissions from the monitor as compared to the natural light spectra emissions that exist across the set overall. This monitor color balance problem is a function of the camera(s), and can vary with different camera models.



Figure A-1 Example Uncompensated Setup

Ideally, this display would essentially result in a waveform showing identical RGB components corresponding to the grayscale monochrome bar spectrum being fed to the set monitor. However, as shown in Figure A-2 with no correction applied, the waveform monitor shows imbalance between the RGB channels due to the reasons discussed above. Note the excessive offset, level, and deviation from an ideal gamma curve for the blue channel.



Figure A-2 Uncorrected (Uncompensated) Monitor Waveform

Figure A-3 shows the same setup using the Control Panel Color Corrector function (as provided by the Control Panel in conjunction with a 9084 Color Corrector card), along with the appropriate signal source standard and a video waveform monitor to assess and determine the color correction required. In the calibration setup shown in Figure A-3 the feed to the switcher is monitored by a WFM 7120 Waveform Monitor, with the set monitor being fed a monochrome linear limit ramp by a TG700 siggen.



Figure A-3 Example Setup Using Control Panel Color Corrector Function

Using the Control Panel Color Corrector function and setup shown in Figure A-3, this condition can be corrected through compensation using the Control Panel Color Corrector function as shown in Figure A-4.

Note: As shown in Figure A-4, a recommended approach to performing color corrections is to first apply offset correction, then gain correction, and finally gamma correction.





Miscellaneous Color and Video Correction Examples

Table A-2 provides examples showing and describing various color and video condition corrections using the Control Panel.

Note: Signal generator and waveform monitor used in these examples are Tektronix[®] models TG700 and WFM 7120, respectively.





Table A-2 Color and Video Corrections Using the Control Panel — continued



Table A-2 Color and Video Corrections Using the Control Panel — continued

Changing Control Panel/Frame Network Settings

Typically, your Control Panel is typically delivered with all network settings and card assignments configured per your instructions for your frames and cards that are to be controlled by the Control Panel. This is facilitated by the "Setting Up Your Cobalt[®] Remote Control Panel" fill-in sheet that we offer you, or per your instructions.

An example of a filled-in sheet is shown in Figure A-5. As shown, this information consists of the following:

- IP address of the Control Panel itself
- IP address of the frame(s) connecting to the Control Panel
- Card assignments for each frame(s)

By providing us this information before you receive your Control Panel, your Control Panel will be immediately ready to use.

Should the need arise to change any of the following, use the instructions in this appendix.

- Changing the Control Panel Network Settings (p. A-13)
- Changing Frame Network Settings and/or Card Assignments (p. A-16)

COE	BALT.	Cobalt Digital In 2406 E. University Ave. Urbana, IL 61802 Voice 217.344.1243 • Fax www.cobaltdigital.com		
The fo as nee		r can be used to sort ou	t and arrange the setu	p of your Control Panel. Print or photocopy as many
Cu	stomer	Name: XYZ Inc.		MFC-8310-N Network
Ar	ea/Plant	: Post 1A		Controller Card and Power Supply Area
	O Number: <u>CDI-CP-XYZ</u>			
Da	te: <u>10/2</u>	5/09		0230567890
Co	ntrol Pa	nel Name: <u>Color Co</u>	rrector Post 1A	
		nel IP Address: <u>192</u>		Card Slots (1 thru 10) 8310-C Frame with MFC-8310-N network controller card (FRONT VIEW)
Fra	ame Nar	ne/Number:		
S	lot	Card Model		Name/Description
	1	9084		Post 1A Color Corrector
	2	9083		Post 1A Audio/FS
	3 4	9323 9323		Post 1A Audio #2 Post 1A Audio #3
	4 5	9323		Post 1A Audio #3 Post 1A Format
	6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	7			
	8			
	9			
	10			

Figure A-5 Example "Setting Up Your Cobalt® Remote Control Panel" Sheet

Changing the Control Panel Network Settings

Change the network settings to desired settings as described below.

- 1. Press the **Select Device** key and then press the **0** key.
- 2. Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
- **3.** Rotate any knob to select

2 Configure Network Settings

4. Press any knob in. The current network settings for the Control Panel are now displayed (as shown in the example below). Note at this point that the setting selection items on the screens are now adjacent to respective knobs.



- Note: Where the Lock icon () appears, this indicates values cannot be changed in the currently displayed screen. Where the "P" icon (P) appears, this indicates to press the adjacent knob to open the value for editing.
 - **5.** Noting the setting selection item to be changed and its respective knob, press the knob in to open the item for editing. The setting selection item is now displayed in reversed background, indicating a selection can now be made.
- **Note:** Obtain Address via DHCP item should first be set. If set to Yes, manually entered static values for a static IP address will not take effect.
 - 6. Rotate the knob adjacent to the parameter to select from a list of choices (or use the keypad and **Enter** key for numeric string settings) to enter the desired change. Reject or enter the change as follows:
 - Cancel the entry or selection by pressing the Cancel key.
 - **Execute** the entry or selection by either pressing the corresponding knob in again (or pressing the **Enter** key). The changed entry now appears in the respective item field.
 - **7.** Repeat steps 5 and 6 for all four setting selection items displayed (and listed below), making certain all four setting selection items are set as intended.
 - Obtain Address via DHCP (Y/N?)
 - Fixed IP Address
 - Netmask
 - Gateway
- **Note:** Static IP addresses are recommended for the Control Panel and the frame(s) that the Control Panel is to communicate with.
 - Save changes by pressing the Select Device or Select Submenu key. Saving Changes and Restarting is displayed. The Control Panel now restarts (followed by the power-up COBALT[®] opening screen).

- **9.** Test the Control Panel configuration setting and connectivity performed above by going to a computer on the LAN where the Control Panel resides. Use the Control Panel embedded web browser to access the Control Panel as follows:
 - **9.1** Open a browser window and enter the Control Panel IP address.
 - **9.2** On the computer, the Control Panel screen should now appear (as shown below).

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COBALT.		
Control Panel		
	<u>COBALT</u> Control Panel	

- **10.** If desired, the Control Panel network settings can also be checked as follows:
 - **10.1** Press the **Select Device** key and then press the **0** key.
 - **10.2** Press the **Select Submenu** key. The Control Panel Submenu selection screen is now displayed.
 - **10.3** Rotate any knob to select

1 Current Network Settings

10.4 Press any knob in to display current network settings. An example of this display is shown below.



Changing Frame Network Settings and/or Card Assignments

The Control Panel uses a configuration file to perform the following:

- Connect the Control Panel to its intended frame(s).
- Configure the Control Panel to provide control functions applicable to particular COMPASS[®] and/or FUSION3G[®] cards. In this manner, the Control Panel displays and provides the control functions applicable to the cards controlled by the Control Panel.
- Correlate the card model list displayed on the Control Panel with the physical order/assignment of cards within the frame.

Therefore, to change the configuration of your Control Panel, a new (or edited) configuration file that contains the desired changes must be **uploaded** to the Control Panel.

- Cobalt[®] can prepare an edited configuration file to implement the changes you require. Contact Cobalt Support (see "Contact Cobalt Digital Inc." in Chapter 1 of this manual) to obtain a new configuration file. The file will be sent to you via e-mail.
 When the file is received, it can be uploaded to the Control Panel as described in "Uploading a Configuration File to the Control Panel" below.
- If you desire, you can perform minor edits to a configuration file to change a frame IP address, or card slot locations and/or additions within a frame. Contact Cobalt Support (see "Contact Cobalt Digital Inc." in Chapter 1 of this manual) to obtain your configuration file. The file will be sent to you via e-mail. You can edit the file as described in Editing a Configuration File (p. A-18). When the file is ready, it can then be uploaded to the Control Panel as described in "Uploading a Configuration File to the Control Panel" below.

Uploading a Configuration File to the Control Panel

- 1. Open a browser window and enter the Control Panel IP address on a computer connected to the frame LAN ("192.168.0.249" in the example shown below).
- 2. When the screen shown on the next page appears on the computer, click on <u>Configuration File Upload</u>.

	Cobalt Digital OGCP-9000 Control Panel	V (1) X Live Search
ſ	😭 🌸 💽 Cobak Digital OGCP-9000 Control Panel	
	COBALT Cobalt Digital OGCP-9000 Control Panel	
	Configuration File Download Configuration File Upload	
	Kernel Image Update	browser1A.PNG

The screen shown below now appears. Using the Browse... button, browse to the location of the saved configuration file
 (C:\data\OGCPconfig.txt in the example below).

🖉 Cobalt Digital OGCP-9000 Control Panel		
🔆 💽 🔹 📄 http://192.168.0.249/update-config.html	Live Search	P -
😭 🚸 💽 Cobalt Digital OGCP-9000 Control Panel	🟠 🔹 🗟 🔹 🖶 Bage 🕶 🎲 Tg	ols + »
		~
Cabalt Disital OCCD 0000	Control Donal	
Cobalt Digital OGCP-9000	Control Panel	
		_
Configuration File Uple	oad	
Use this option to upload a new configuration file to t	the control panel.	
Choose the configuration file to upload: C:\data\OGC	CPconfig.td Browse	
	can take several minutes. Please wait for the upload to complete	e
Click the button to upload and update. The update ca before clicking Back. after the upload has completed configuration.	d, the control panel will restart automatically with the new	
before clicking Back. after the upload has completed	d, the control panel will restart automatically with the new	

4. Click the **Send Now** button. Wait while the edited configuration is fully uploaded to the Control Panel.

After the upload has completed, the Control Panel will restart automatically displaying the power-up COBALT[®] opening screen and show the new configuration. The browser can now be closed.

CAUTION

Do not power down the Control Panel or disturb the upload until it is complete. Improper upload will result if upload is not allowed to properly complete.

Editing a Configuration File

The Control Panel configuration file can be field-edited to change frame IP addresses or card assignments and/or slot locations as described below.

- **Note:** If it is desired to edit the configuration file that currently resides in the Control Panel, in the browser described on the previous page, click <u>Configuration File</u> <u>Download</u> and browse to the location where you want it to be downloaded. Perform edits on the file and upload when done as described below.
- **Note:** Always save an edited configuration file using a unique name, thereby preserving the original file should it be necessary to use the original file.
 - 1. Shown below is the section of the configuration file where the user defines frame IP address and card assignments to suit the installation.

The user-editable area of the file is defined by the ## start of Device Definitions ## and the ## end of Device Definitions ## boundaries as shown below.

In the default configuration file, this area is empty (as shown below).



CAUTION

Do not edit or alter the file contents preceding the

start of Device Definitions ## section.

- 2. Note the convention used for entering user definitions, as shown in the example in Figure A-6.
- **3.** Noting the convention described in Figure A-6, configure the Control Panel by adding configuration content to the downloaded configuration file as follows:
- **Note:** For additional reference if desired, Figure A-7 on page A-21 shows an example configuration file and the resulting Control Panel configuration setup.



Figure A-6 Device Definition Field Descriptions

Enter the banner text to be displayed for the Control Panel Select Device screen (1) in Figure A-6).

Enter any text as desired to help identify the Control Panel and its specific function.

- 3.2 For the first device (card) to be added, if desired enter the device model number or other identifying information (2) in Figure A-6).
- **3.3** Assign and enter the device list number and the device custom display banner text for the first device. ((3) in Figure A-6).

This sets the order in which the device appears in the Select Device display list, as well as its displayed name. (3 in Figure A-6).

Enter any text as desired to help identify the device and its specific function. An example is shown below.



- **3.4** Apply the appropriate control display/parametric template for the added device ((4) in Figure A-6).
- 3.5 Set the IP address of the frame where the device is to be located ((4) in Figure A-6).
- **3.6** Set the frame slot where the device is to be located (4) in Figure A-6).
- **3.7** Repeat steps 3.2 through 3.6 for additional devices.
- **3.8** Save the edited configuration file.
- **4.** Upload the edited configuration file to the Control Panel as described in Uploading a Configuration File to the Control Panel (p. A-16).
- **Note:** Any number of configuration files may be renamed and saved as desired. It is recommended to save all viable configuration files in case a previous setup may be required in the future.
 - A saved configuration can be used to identically configure additional Control Panels if desired.



Figure A-7 Example Configuration File and Resulting Setup

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