CRESTRON
HELP FILE DOCUMENT

Manufacturer: Lumens Digital Optics Inc.
Model: OIP-D50C
Device Type: Control System

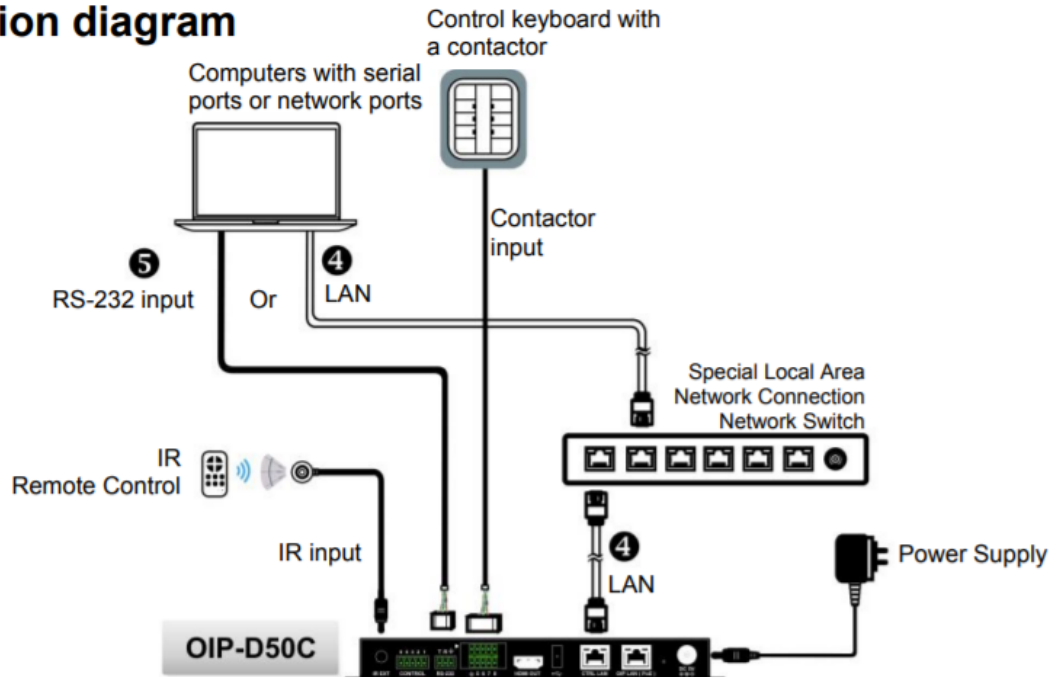| CONTACT SUPPORT: (please fill out carefully)	
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NOTES:	

GENERAL INFORMATION	
SIMPLWINDOWS NAME:	Lumens AVoIP OIP-D50C Controller
CATEGORY:	Control system
VERSION:	2.0
SUMMARY:	The Lumens OIP-D50C is a powerful AV over IP controller that gives the user complete control of the Lumens OIP system over the network. It allows users to sit in one remote location and control all of the distributed encoders and decoders.
GENERAL NOTES:	Centralized management of distributed encoders and decoders *with OIP series Intuitive Web-based GUI for AV distribution and control Effortless sources switching and video wall deployment Supports PoE for easy installation
CRESTRON HARDWARE REQUIRED:	1. Crestron 3-Series Controller 2. Com port x1 3. LAN port x1
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	V0.45L
VENDOR SETUP:	N/A

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CABLE DIAGRAM:	(Provide description of control cable from processor to device. RS232/485/TCP-IP)

Connection diagram

Before attempting to use Telnet control, please ensure that both the unit and the PC are connected to the same active networks.

To Access the Command Line Interface (CLI)

Windows 7	Click Start, type "cmd" in the search field, and press Enter.
Windows XP	Click Start > Run, type "cmd", and press Enter.
Mac OS X	Click Go > Applications > Utilities > Terminal.

Once in the Command Line Interface (CLI) type "telnet" followed by the IP address of the unit (and the port number if it is non-standard) and then hit "Enter". This will connect us to the unit we wish to control.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator\telnet 192.168.1.50 23
```

Note: If the IP address is changed then the IP address required for Telnet access will also change accordingly. Note: Commands will not be executed unless followed by a carriage return. Commands are not case-sensitive.

CONTROL:

set video wall preset N1 N2	D	Execute the specific video wall configuration.
		N1 = 1~128 [Video wall group ID]

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		N2 = 1~128 [tx Encoder ID]

Set video wall preset N1 N2	D	Change the video wall image to Encoder.
		  N1 = video wall preset number,
		  N2 = Encoder number.

set video wall preset N1 mute S1	D	Set Decoder N1 Blank screen.
		  N1 = video wall preset number,
		  S1 = 0: [Normal], 1: [Blank screen]

set factory default	D	Reset the unit to the factory defaults.
set system reboot	D	Reboot the unit.
set macro N1 run	D	P Execute the specified macro immediately. N1 = 1~16 [Macro ID]

set out N1 route N2	D	Route the specified input to the specified output.
		  N1 = 1, 2, 3…
		  N2 = 1, 2, 3…

set all rx system reboot	D	Reboot all Decoder device.
set N1 system reboot	D	Reboot Decoder device. N1 = rx1~rx256 [Decoder ID]

set N1 hdr S1	D	Set Decoder N1 HDR mode ON/OFF.
		  N1 = rx1~rx256 [Decoder ID]
		  S1 = 0: [Off], 1: [On]

set N1 cec S1	D	Set Decoder N1 CEC mode ON/OFF.
		  N1 = rx1~rx256 [Decoder ID]
		  S1 = 0: [Off], 1: [On]

set voip N1 cec route N2	D	Set Decoder N1 video form Encoder N2.
		  N1 = rx1~rx256 [Decoder ID]
		  N2 = tx1~tx128 [Encoder ID]

set N1 rotate S1	D	Set Decoder N1 rotate S1 degree.
		  N1 = rx1~rx256 [Decoder ID]
		  S1 = 1: [0 degree], 2: [180 degree], 3: [270 degree]

set N1 video mute S1	D	Set Decoder N1 Blank screen.
		  N1 = rx1~rx256 [Decoder ID]
		  S1 = 0: [Off], 1: [On]

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set N1 video wall stretch S1	D	Set Decoder N1 stretch Out/Fit In. 　　N1 = rx1~rx256 [Decoder ID] 　　S1 = 1: [Stretch Out],　　2: [Fit In]
set N1 resolution S1	D	Set Decoder N1 resolution. 　　N1 = rx1~rx256 [Decoder ID] 　　S1 = 1: Pass Through 　　S1 = 2: Native 　　S1 = 3: 640x480p60 　　S1 = 4: 800x600p60 　　S1 = 5: 1024x768p60 　　S1 = 6: 1280x768p60 　　S1 = 7: 1280x800p60 　　S1 = 8: 1280x1024p60 　　S1 = 9: 1360x768p60 　　S1 = 10: 1366x768p60 　　S1 = 11: 1440x900p60 　　S1 = 12: 1400x1050p60 　　S1 = 13: 1600x900p60 　　S1 = 14: 1600x1200p60 　　S1 = 15: 1680x1050p60 　　S1 = 16: 1920x1200p60 　　S1 = 17: 480i60 　　S1 = 18: 576i50 　　S1 = 19: 480p60 　　S1 = 20: 576p50 　　S1 = 21: 720p25 　　S1 = 22: 720p30 　　S1 = 23: 720p50 　　S1 = 24: 720p60 　　S1 = 25: 1080i50 　　S1 = 26: 1080i60 　　S1 = 27: 1080p24 　　S1 = 28: 1080p25 　　S1 = 29: 1080p30 　　S1 = 30: 1080p50 　　S1 = 31: 1080p60 　　S1 = 32: 3840x2160p24 　　S1 = 33: 3840x2160p25 　　S1 = 34: 3840x2160p30
set all out route N1		Route the specified input to the all output. 　　N1 = 1, 2, 3…

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set all voip ir route N1	D	Route the specified En/Decoder's IR input to all AVoIP devices' IR outputs. N1 = tx1~tx128: [Encoder ID (IR input)]
set all tx system reboot	D	Reboot all Encoder device.
set N1 system reboot	D	Reboot Encoder device. N1 = tx1~tx128 [Encoder ID]

set voip N1 audio out o1 route N2 S1	D	Route the specified Encoder's audio input to the specified Decoder's audio output.
		    N1 = rx1~rx256 [Decoder ID]
		    N2 = tx1~tx128 [Encoder ID]
		    S1 = 1: [HDMI audio input], 2: [Analog audio input]
		    Note: The values for S1 and S2 must match.

set all voip audio out o1 route N1 S1	D	Route the specified Encoder's audio input to all Decoders' audio outputs.
		    N1 = tx1~tx128 [Encoder ID]
		    S1 = 1: [HDMI audio input], 2: [Analog audio input]
		    Note: The values for S1 and S2 must match.

set N1 audio source S1	D	Set Encoder N1 Audio-in select.
		    N1 = tx1~tx128 [Encoder ID]
		    S1 = 1: [Auto], 2: [HDMI], 3: [Analog]

FEEDBACK: (*examples below)		
N/A		

PARAMETERS:		
N/A		

TESTING:	
OPS USED FOR TESTING:	CP3: v1.012.0017
SIMPL WINDOWS USED FOR TESTING:	4.11.05
DEVICE DB USED FOR TESTING:	114.00.001.00

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CRES DB USED FOR TESTING:	88.00.002.00
SYMBOL LIBRARY USED FOR TESTING:	1101
SAMPLE PROGRAM:	Lumens OIP_D50C_Demo_EXE.c3p
REVISION HISTORY:	V2.0 - Release