



OIP-D50C Telnet_RS-232 command set

No	Issue Date	Description	Apply Firmware
1	2021/07/26	First Version.	v0.36L
2	2022/06/02	Correct the commands.	V0.39L

***Notice:**

1. The Telnet_RS-232 command list is for OIP-D50C
2. The yellow highlight  means the latest update.
3. The blue highlight  means the deleted item.

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 10	
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.

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Microsoft Windows [Version 6.1.7601]
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C:\Users\Administrator>telnet 192.168.1.50 23
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<Note 1> By default the unit will obtain the LAN 2 IP address via DHCP. If you are unsure of the unit’s current LAN 2 IP address, please check the unit’s HDMI status display.

<Note 2> If the unit's IP address is changed then the IP address required for Telnet access will also change accordingly.

<Note 3> Commands will not be executed unless followed by a carriage return. Commands are not case-sensitive.

● **Command**

Command	Description and Parameters
help	Show the full command list.
Help N1	Show help details about command N1. N1 = {Command}
?	Show the full command list.
? N1	Show help details about command N1. N1 = {Command}
get fw ver	Show the unit's current firmware version.
set factory default	Reset the unit to the factory defaults.
get command ver	Show the unit's current command version.
get model name	Show the unit's model name.
get model type	Show the unit's product type.
get mac N1 addr	Show the MAC address of the specified LAN port. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]
set factory ipconfig default	Reset the unit's network settings to the factory defaults.
set system reboot	Reboot the unit.
set lan N1 ip mode N2	Set the IP address assignment mode of the specified LAN port. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN] Available values for N2: Static [Static IP mode] DHCP [DHCP mode]
get lan N1 ip mode	Show the current IP address assignment mode of the specified LAN port. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]
get lan N1 ipconfig	Show the specified LAN port's current IP configuration information. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]
get lan N1 ipaddr	Show the specified LAN port's current IP address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]
get lan N1 netmask	Show the specified LAN port's current netmask. Available values for N1:

	<p>1 [OIP LAN] 2 [CTRL LAN]</p>
get lan N1 gateway	<p>Show the specified LAN port's current gateway address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]</p>
set lan N1 static ipaddr N2	<p>Set the specified LAN port's static IP address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN] N2 = X.X.X.X [X = 0~255, IP address]</p>
get lan N1 static ipaddr	<p>Show the specified LAN port's current static IP address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]</p>
set lan N1 static netmask N2	<p>Set the specified LAN port's static netmask. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN] N2 = X.X.X.X [X = 0~255, netmask]</p>
get lan N1 static netmask	<p>Show the specified LAN port's current static netmask. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]</p>
set lan N1 static gateway N2	<p>Set the specified LAN port's static gateway address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN] N2 = X.X.X.X [X = 0~255, gateway address]</p>
get lan N1 static gateway	<p>Show the specified LAN port's current static gateway address. Available values for N1: 1 [OIP LAN] 2 [CTRL LAN]</p>
get uart list	<p>List all available serial ports.</p>
set uart N1 reset	<p>Reset the specified serial port's settings to the factory defaults. Available values for N1: 1 [3-pin serial port] 2 [5-pin serial port]</p>
set uart N1 baudrate N2	<p>Set the baud rate of the specified serial port. Available values for N1: 1 [3-pin serial port] 2 [5-pin serial port]</p>

	<p>Available values for N2:</p> <p>2400 [2400 baud]</p> <p>4800 [4800 baud]</p> <p>9600 [9600 baud]</p> <p>19200 [19200 baud]</p> <p>38400 [38400 baud]</p> <p>57600 [57600 baud]</p> <p>115200 [115200 baud]</p>
get uart N1 baudrate	<p>Show the current baud rate of the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p>
set uart N1 stop bit N2	<p>Set the number of stop bits for the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p> <p>Available values for N2:</p> <p>1 [1 stop bit]</p> <p>2 [2 stop bits]</p>
get uart N1 stop bit	<p>Show the current number of stop bits for the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p>
set uart N1 data bit N2	<p>Set the data bits used by the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p> <p>Available values for N2:</p> <p>7 [7 data bits]</p> <p>8 [8 data bits]</p>
get uart N1 data bit	<p>Show the current number of data bits used by the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p>
set uart N1 parity N2	<p>Set the parity of the specified serial port.</p> <p>Available values for N1:</p> <p>1 [3-pin serial port]</p> <p>2 [5-pin serial port]</p> <p>Available values for N2:</p> <p>0 [None]</p> <p>1 [Odd]</p> <p>2 [Even]</p>

get uart N1 parity	Show the current parity setting of the specified serial port. Available values for N1: 1 [3-pin serial port] 2 [5-pin serial port]
set uart 2 mode N1	Set the operational mode of the Control Output (5-pin) serial port. Available values for N1: 0 [Disabled] 1 [RS-232 mode] 2 [RS-422 mode] 3 [RS-485 mode]
get uart 2 mode	Show the current operational mode of the Control Output (5-pin) serial port.
set uart 2 command [N1]	Transmit the specified command data via the Control Output (5-pin) serial port. N1 = {Command data} [ASCII text] <i>Note: To transmit hex data, each ASCII hex pair (octet) must be preceded by "\x". For example a carriage return would be "\x0D".</i>
set voip N1 audio out oN2 route N3 n4	Route the specified Encoder's audio input to the specified Decoder's audio output. N1 = rx1~rx256 [Decoder device ID] Available values for N2: 1 [HDMI audio output] 2 [Analog audio output] N3 = tx1~tx128 [Encoder device ID] Available values for N4: 1 [HDMI audio input] 2 [Analog audio input] <i>Note: The values for N2 and N4 must match.</i>
set all voip audio out oN1 route N2 N3	Route the specified Encoder's audio input to all Decoders' audio outputs. Available values for N1: 1 [HDMI audio output] 2 [Analog audio output] N2 = tx1~tx128 [Encoder device ID] Available values for N3: 1 [HDMI audio input] 2 [Analog audio input] <i>Note: The values for N1 and N3 must match.</i>
set tx N1 uart 1 command [N2]	Transmit the specified command data via the serial port on the specified Encoder. N1 = 1~128 [Encoder device ID] N2 = {Command data} [ASCII text] <i>Note: To transmit hex data, each ASCII hex pair (octet) must be</i>

	<i>preceded by “\x”. For example a carriage return would be “\x0D”.</i>
set rx N1 uart 1 command [N2]	<p>Transmit the specified command data via the serial port on the specified Decoder.</p> <p>N1 = 1~256 [Decoder device ID] N2 = {Command data} [ASCII text]</p> <p><i>Note: To transmit hex data, each ASCII hex pair (octet) must be preceded by “\x”. For example a carriage return would be “\x0D”.</i></p>
set all tx uart command [N1]	<p>Transmit the specified command data via the serial port on all Encoders.</p> <p>N1 = {Command data} [ASCII text]</p> <p><i>Note: To transmit hex data, each ASCII hex pair (octet) must be preceded by “\x”. For example a carriage return would be “\x0D”.</i></p>
set all rx uart command [N1]	<p>Transmit the specified command data via the serial port on all Decoders.</p> <p>N1 = {Command data} [ASCII text]</p> <p><i>Note: To transmit hex data, each ASCII hex pair (octet) must be preceded by “\x”. For example a carriage return would be “\x0D”.</i></p>
set voip N1 uart route N2	<p>Route the specified Encoder or Decoder’s serial port Rx pin to the serial port Tx pin on the specified Encoder or Decoder.</p> <p>Available values for N1: tx1~tx128 [Encoder device ID (Tx pin)] rx1~rx256 [Decoder device ID (Tx pin)]</p> <p>Available values for N2: tx1~tx128 [Encoder device ID (Rx pin)] rx1~rx256 [Decoder device ID (Rx pin)]</p>
set all voip uart route N1	<p>Route the specified Encoder or Decoder’s serial port Rx pin to all AVoIP devices’ serial port Tx pins.</p> <p>Available values for N1: tx1~tx128 [Encoder device ID] rx1~rx256 [Decoder device ID]</p>
set tx N1 ir 1 command [N2]	<p>Transmit the specified IR data via the IR output on the specified Encoder.</p> <p>N1 = 1~128 [Encoder device ID] N2 = {IR ASCII hex data} [Pronto format IR data]</p>
set rx N1 ir 1 command [N2]	<p>Transmit the specified IR data via the IR output on the specified Decoder.</p> <p>N1 = 1~256 [Decoder device ID] N2 = {IR ASCII hex data} [Pronto format IR data]</p>
set all tx ir command [N1]	<p>Transmit the specified IR data via the IR outputs on all Encoders.</p> <p>N1 = {IR ASCII hex data} [Pronto format IR data]</p>
set all rx ir command [N1]	<p>Transmit the specified IR data via the IR outputs on all Decoders.</p> <p>N1 = {IR ASCII hex data} [Pronto format IR data]</p>

set voip N1 ir route N2	Route the specified Encoder or Decoder's IR input to the IR output on the specified Encoder or Decoder. Available values for N1: tx1~tx128 [Encoder device ID (IR output)] rx1~rx256 [Decoder device ID (IR output)] Available values for N2: tx1~tx128 [Encoder device ID (IR input)] rx1~rx256 [Decoder device ID (IR input)]
set all voip ir route N1	Route the specified Encoder or Decoder's IR input to all AVoIP devices' IR outputs. Available values for N1: tx1~tx128 [Encoder device ID (IR input)] rx1~rx256 [Decoder device ID (IR input)]
set voip N1 usb device o1 route N2 1	Route the specified AVoIP device's USB device to the specified AVoIP device's USB host. Available values for N1: tx1~tx128 [Encoder device ID (USB device)] rx1~rx256 [Decoder device ID (USB device)] Available values for N2: tx1~tx128 [Encoder device ID (USB host)] rx1~rx256 [Decoder device ID (USB host)]
set video wall preset N1	Execute the specific video wall configuration. N1 = 1~128 [Video wall group ID]
set multiview preset N1	Execute the specific multiview preset. N1 = 1~128 [Multiview preset ID]
set macro N1 run	Execute the specified macro immediately. N1 = 1~16 [Macro ID]
set all tx system reboot	Reboot all Encoder device.
set all rx system reboot	Reboot all Decoder device.
set voip s1 audio out on1 route s2 n2↵ s2 n2↵	Route the specified voip device's audio input to the specified voip device's audio output. set voip s1 audio out on1 route s2 n2↵ s1=device id string, rx1 ~ rx256 s2=device id string, tx1 ~ tx128 n1 = 1(HDMI Audio), 2(Analog Audio) n2 = 1(HDMI Audio), 2(Analog Audio) P.S. HDMI Audio to Analog Audio or vise versa is not allowed
set all voip audio out on1 route s1 n2	Route all voip device's audio input to the specified voip device's audio output. set all voip audio out on1 route s2 n2↵ s1=device id string, tx1 ~ tx128 n1 = 1(HDMI Audio), 2(Analog Audio)

	<p>n2 = 1(HDMI Audio), 2(Analog Audio) P.S. HDMI Audio to Analog Audio or vice versa is not allowed</p>
<p>set tx n1 uart n2 command [s1]↵</p>	<p>Set the specified Encoder to send the RS-232 command data. set tx n1 uart n2 command [s1]↵ n1 = 1,2,3... n2 = 1 s1 = Command data, could include character and hex data.</p>
<p>set rx n1 uart n2 command [s1]↵</p>	<p>Set the specified Decoder to send the RS-232 command data. set rx n1 uart n2 command [s1]↵ n1 = 1,2,3... n2 = 1 s1 = Command data, could include character and hex data.</p>
<p>set all tx uart command [s1]↵</p>	<p>Set all Encoder to send the RS-232 command data. set all tx uart command [s1]↵ s1 = Command data, could include character and hex data.</p>
<p>set all rx uart command [s1]↵</p>	<p>Set all Decoder to send the RS-232 command data set all rx uart command [s1]↵ s1 = Command data, could include character and hex data.</p>
<p>set voip s1 uart route s2↵</p>	<p>Route the specified Encoder or Decoder device's serial port to the serial port(s) on one specified Encoders or Decoders. set voip s1 uart route s2↵ s1=device id string, tx1~tx128 or rx1 ~ rx256 s2=device id string, tx1~tx128 or rx1 ~ rx256</p>
<p>set all voip uart route s1</p>	<p>Route all Encoder or Decoder device's serial port to the serial port(s) on one specified Encoders or Decoders. set all voip uart route s1↵ s1=device id string, tx1~tx128 or rx1 ~ rx256</p>
<p>set tx n1 ir n2 command [s1]↵</p>	<p>Set the specified Encoder to emit the IR data. set tx n1 ir n2 command [s1]↵ n1 = 1,2,3... n2 = 1 s1 = ir raw hex data</p>
<p>set rx n1 ir n2 command [s1]↵</p>	<p>Set the specified Decoder to emit the IR data. set rx n1 ir n2 command [s1]↵ n1 = 1,2,3... n2 = 1 s1 = ir raw hex data</p>
<p>set all tx ir command [s1]↵</p>	<p>Set all Encoder to emit the IR data. set all tx ir command [s1]↵ s1 = ir raw hex data</p>
<p>set all rx ir command [s1]↵</p>	<p>Set all Decoder to emit the IR data. set all rx ir command [s1]↵</p>

	s1 = ir raw hex data
set voip s1 ir route s2↵	Route the specified Encoder or Decoder device's ir input to the ir output on one specified Encoders or Decoders. set voip s1 ir route s2↵ s1=device id string, tx1~tx128 or rx1 ~ rx256 s2=device id string, tx1~tx128 or rx1 ~ rx256
set all voip ir route s1	Route all Encoder or Decoder device's ir input to the ir output on one specified Encoders or Decoders. set all voip ir route s1↵ s1=device id string, tx1~tx128 or rx1 ~ rx256
set voip s1 usb device on1 route s2 n2↵	Route the specified voip device's USB device to the specified voip device's usb host. set voip s1 usb device on1 route s2 n2↵ s1, s2=device id string, tx1~tx128 or rx1 ~ rx256 n1 = 1 n2 = 1
set video wall preset n1	Trigger the specific video wall configuration Set video wall preset n1 n1 = 1,2,3...
set out n1 route n2	Route the specified input to the specified output Set out n1 route n2 n1 = 1,2,3... n2 = 1,2,3...
set all out route n1	Route the specified input to the all output n1 = 1,2,3...
Set video wall preset n1 n2	Change the video wall 1 image to Encoder (n1 = video wall preset number, n2= Encoder number) set video wall preset 1 2 status: videowall preset 12