DIGITAL VIEW®

Application Note

SVX-1920 Network Connection

Revision History

Amendment Date	Version
July 2009	V1.0
July 2009	V1.1a

Table of Contents

1 Introduction

The SVX-1920 LCD interface controller has an RJ-45 Ethernet port for control and monitoring over a network. This application note introduces the two user interface modes:

- Browser based web server mode (this is the default mode)
- Command line direct mode

There is also a short overview of the command set and how it is implemented.

QUICK GUIDE

For experienced users the following quick guide to trying out the network connection and functions may be useful.

- The SVX-1920 ships with the browser based web-server mode installed as default.
- Works with a normal network with DHCP, i.e. must use a router.
- Connect the SVX-1920 to the network and ensure power is on.
- Use the IP-50 IP Locator utility available from the IP-50 web-page. http://www.digitalview.com/ip-50/firmware.php (Windows only)
- Double click on the IP address in the IP Locator window, it will open the SVX-1920 browser page in your default browser. Alternatively copy the IP address into your browser address line.
- Test the functions that come up on the browser.

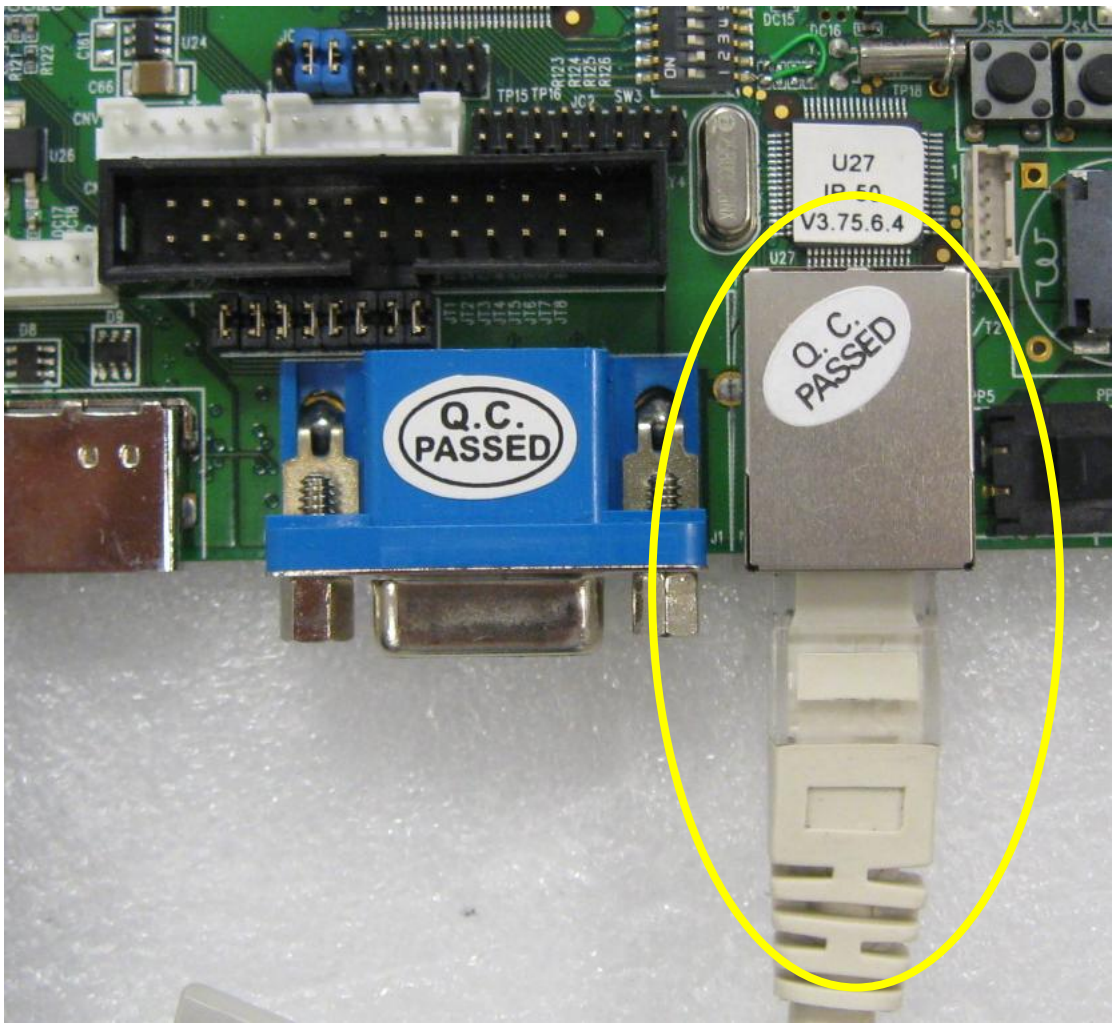
Command line direct mode: This is relevant when a PC application is used to send and receive commands over the network port. The network port will require an alternative firmware version if the Command line direct mode is required. Please see section 4 below for details.

2 Setup & Browser Mode Operation

The SVX-1920 ships with the network port in Browser Mode, this means that you can use a normal web browser to access and control the functions within the SVX-1920 controller.

Important usage note: This is designed to be used on a normal network with DHCP enabled. This is the default for most networks but you may need to consult your network administrator.

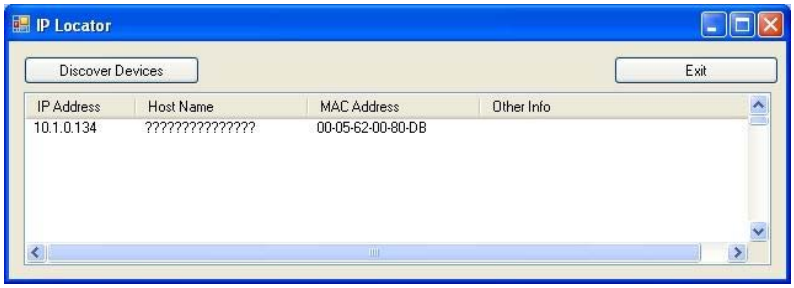
Physical connection:
Connect the SVX-1920 (J1) to the network and ensure power is on.



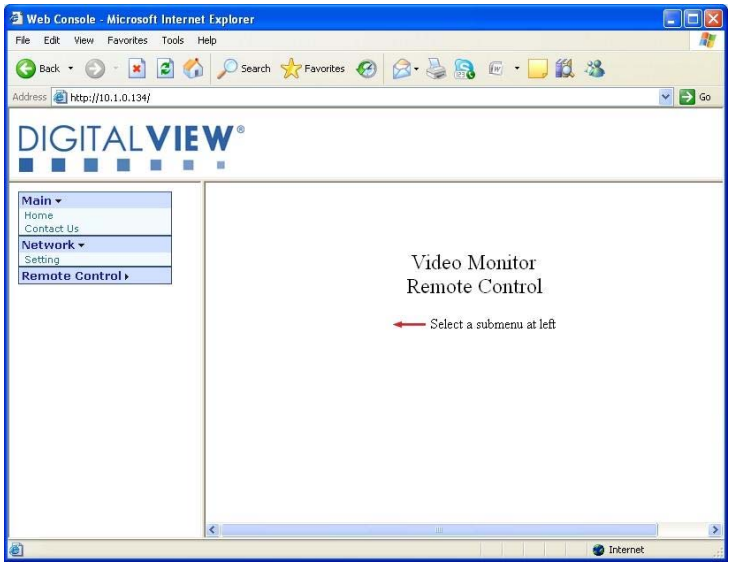
2.1 Locating the SVX-1920 on the Network

Once connected to the network the SVX-1920 can be found by either checking the connected devices listed on the router (may require a system administrator) or more easily by using the Digital View IP Locator utility as follows:

- The Digital View software utility "IP Locator" which can be downloaded at http://www.digitalview.com/ip-50/IPLocator.zip, will search for any SVX-1920 controllers that are connected in the local network.
- Once found, double click the IP address to enter into the Web Page hosted on the SVX-1920. Alternatively copy the IP address into your browser address bar:



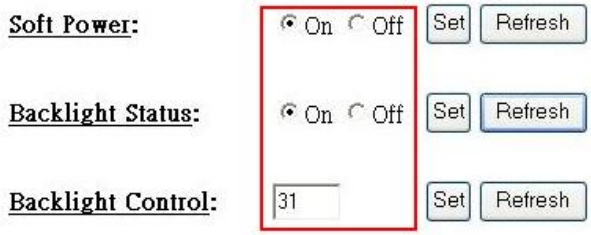
- You should then see the first page of Web Page hosted on the SVX-1920. The first screen will be shown as below.



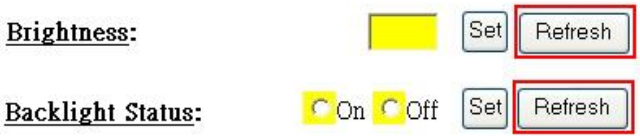
2.2 Control and Monitoring using the Web Pages

On the left of the web page menu, clicking on the **Main / Network / Remote Control** pull-down menu will show the pull-down menu as shown below.

The current setting will be shown automatically for each parameter:
For example:

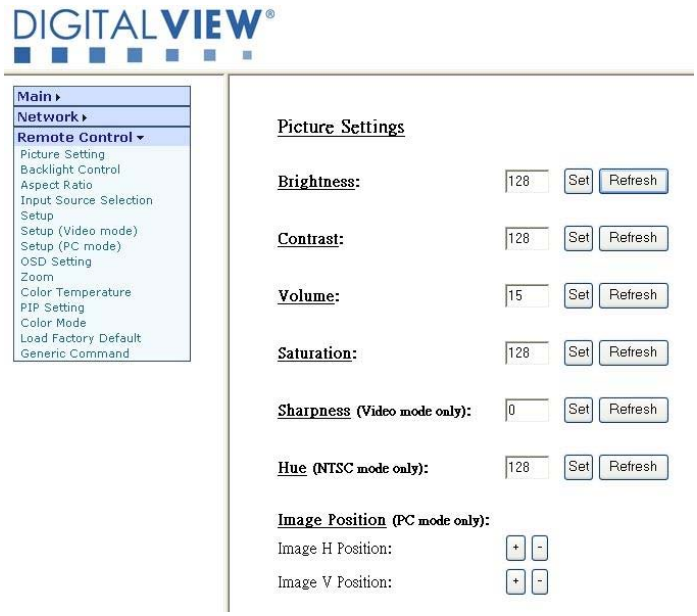


It shows error reading from the data if the yellow box appears. Please click "Refresh" to re-check the status again.
For example:

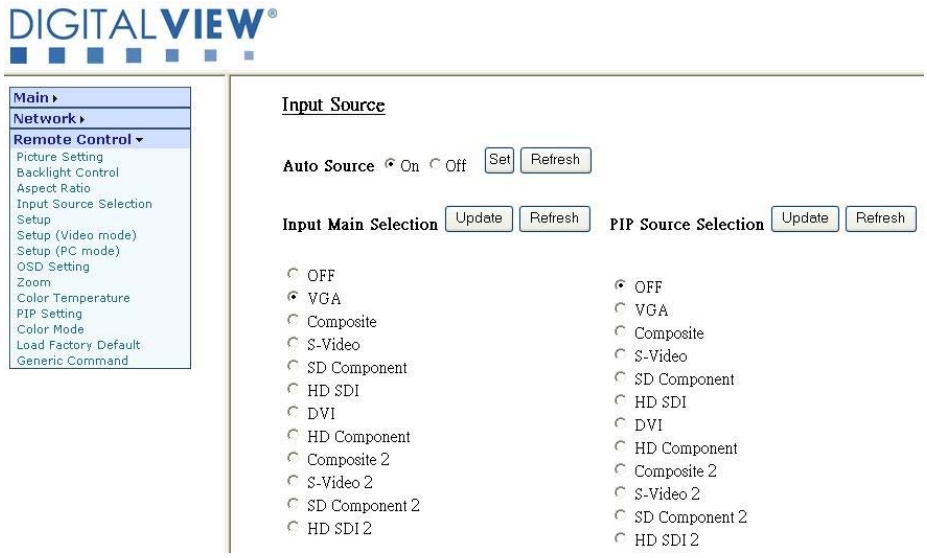


Shown below are a few sample screens:

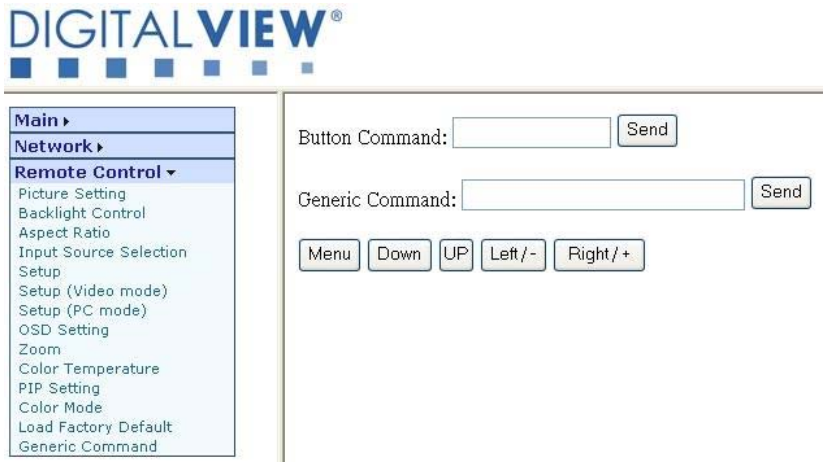
Picture Settings: In this example you can read the existing values and input new values:



Input Source Selection: In this example click on the radio button to make a selection:



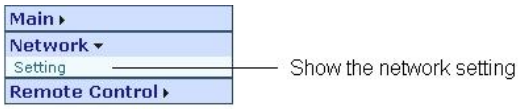
Generic Command: This allows the user to send specific command codes directly to the controller.
“Button command” column is typing the RS-232 command for controlling MENU / SEL UP/ SEL DN/ LEFT / RIGHT button control only.
“Generic command” column is not function now.



Custom Pages: Custom pages and changes to the web pages are possible as an engineering service or by suitably trained users.

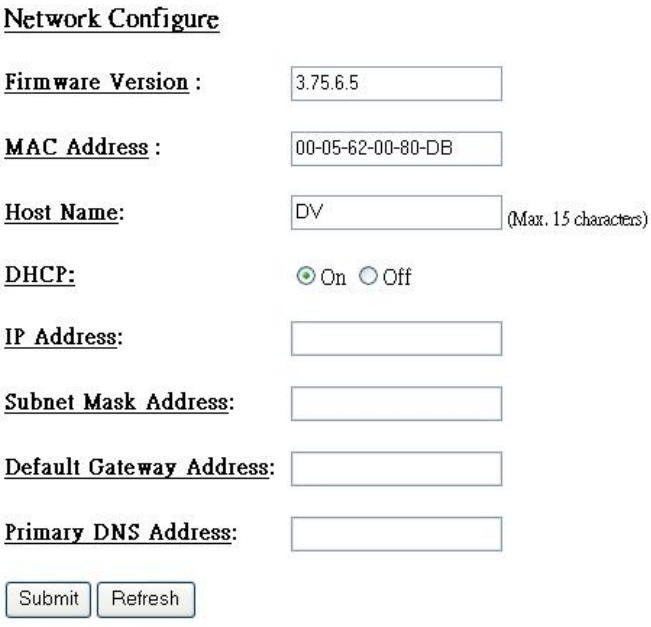
2.3 Network configuration

To see the network configuration, click the **Network** pull down menu to see the table of network settings.



Use this page to configure the network settings on the SVX-1920

- *Firmware Version* Firmware version of the SVX-1920 network port
- *MAC Address* MAC address of IP controller
- *Host Name* ID name without spaces (max. 15 character)
- *DHCP* DHCP client mode enable/disable
- *IP Address* IP address assigned by DHCP server
- *Subnet Mask Address* Subnet Mask Address
- *Default Gateway Address* Network Gateway Address
- *Primary DNS Address* Network DNS Address



2.4 Function Default Settings

The following lists the default settings for the various functions available. (Apply for SVX-1920 V0.16.00 firmware revision)

	Function	Default Setting	Adjust range
Picture Settings	Brightness	128	78-178
	Contrast	128	28-228
	Volume	15	0-30
	Saturation	128	1-255
	Sharpness	0	244-12
	Hue	128	83-173
Backlight Control	Soft Power	ON	N/A
	Backlight Status	ON	N/A
	Backlight Control	31	0-31
Aspect Ratio	Aspect Ratio	Fill screen	N/A
	Custom Sizing	Normal	N/A
Input Source	Auto Source	ON	N/A
	Input Main Selection	VGA	N/A
	PIP Source Selection	OFF	N/A
Setup	Soft Power	ON	N/A
	Auto Power	ON	N/A
	Image Orientation	N/A	N/A
	Gamma	1.0	N/A
Setup (Video Mode)	De-Interlacing Mode	AFM: ON TNR: ON MADI: ON LADI: N/A	N/A
	Video Standard (SD)	Auto	N/A
Setup (PC Mode)	Wide Screen Mode Select	OFF	N/A
OSD Settings	OSD Position	H Pan: 128 V Pan: 128	H Pan: 0-255 V Pan: 0-255
	OSD Menu Timeout	10	0: ON 5-60
	OSD Transparency	ON	N/A
	Freeze	OFF	N/A
	OSD Language	English	N/A

Zoom	Zoom Level	0	0-65
	Zoom H Position	0	Note 1
	Zoom V Position	0	Note 1
Color Temperature	Color Temperature	8000K	N/A
	Red Gain	236	156-255
	Green Gain	236	156-255
	Blue Gain	236	156-255
	Red Offset	128	0-255
	Green Offset	128	0-255
	Blue Offset	128	0-255
PIP Settings	PIP Size	OFF	N/A
	PIP Brightness	128	78-178
	PIP Contrast	128	28-228
Color Mode	Color Mode	OFF	N/A

Note 1: Values depend on the panel resolution

3 Command Line Direct Mode

In addition to the default Browser Control Mode it is also possible to use a PC based application to control functions over the network. This requires an alternative version of the network port firmware that can be easily installed over the network port itself.

The commands available are the same as documented in the RS-232 Application Note and writing a control application is very similar to the RS-232 type except the commands must pass through the network. An alternative is to use an application written for RS-232 communication and use a virtual serial port program such as:

One of the software program can be download at
http://www.taltech.com/products/tcpcom.html

This software can create “Virtual” RS232 serial ports that are actually connections to a TCP/IP port. This allows you to use existing Windows based serial communications software to send and receive data across a TCP/IP network.

Please note this is a 3rd party program and is not warranted nor is it the responsibility of Digital View.

Another example applications are available for download from the Digital View website.

- Controller utility (The software program can be download at http://www.digitalview.com/support/downloads/Controller%20Utility.zip)

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