

Part Number: **4172100xx-3**

Model: **SVX-1920**

DATE	VERSION	SUMMARY OF CHANGES	NOTE
3 April 2009	10	<p>Release pilot run material for SVX-1920</p> <p>1) Release new PCB (017210001-3) board            2) Added text overlay Text Window Horizontal Size            X" = "0x58"            Set Horizontal Size command</p> <p>-----            "SSS" = "0x30,0x30,0x30~0x33,0x46,0x46"</p> <p><b>Bare PCB: 017210001-3; P/N 417210010-3</b>            BIOS: U12, E0.04.00 (Flash SST39VF3201)(new)            U47, V0.10 (DVI DDC, 24C02) (new)            U49, V0.10 (DVI DDC, 24C02) (new)            U22, V0.10 (ARGB DDC, 24C02) (new)            U11, V0.10 (EPM3064ATC100) (new)            U14, V0.10 (EPM3064ATC100) (new)            U22, V0.10 (EPM30128ATC100) (new)            U27, V3.75.6.4 (PIC18F67J60)(no change same as IP-50)            U38, u38_20071107.bin(25LC1024)(no change same as IP-50)</p>	ECN# 870689072
22 May 2009	Official release 10	<p><b>Official release firmware on U12, V0.10.00</b></p> <p>1. Include the bugs fixed and features added up to E0.07.00 firmware revision.</p> <p>2. Added the RS232 code Wide Screen Mode Selection "0xd9" - "3" 1360x768</p> <p>3. Bug fixed : No image display on PIP window under DVI and HDMI input source after swapping the main and PIP source.</p> <p>4. Bug fixed : The Video System (SD) error after main and PIP swap (MAIN is VGA and PIP is Composite or other)</p> <p>5. Fixed the Video System on Main and PIP, when change the video system on Main Source, the PIP will also be changed.            Main is "Composite" and PIP is "S-Video". Iff Main source changed to PAL, NTSC or other, The PIP source will not be changed</p> <p>6. Fixed PIP Auto OFF bug : S-Video and Composite port input a signal, when sets PIP Auto Source = ON. The PIP window will turn off after 30 seconds.</p> <p>7. Fixed OSD "Phase Menu" bug : Go into Phase menu and Exit Phase Menu, it will display "Clock" Menu text on OSD menu.</p> <p><b>Bare PCB: 017210001-3; P/N 417210010-3</b>            BIOS: U12, V0.10.00(Flash SST39VF3201)(new)            U47, V0.10 (DVI DDC, 24C02) (new)            U49, V0.10 (DVI DDC, 24C02) (new)            U22, V0.10 (ARGB DDC, 24C02) (new)            U11, V0.10 (EPM3064ATC100) (new)            U14, V0.10 (EPM3064ATC100) (new)            U22, V0.10 (EPM30128ATC100) (new)            U27, V3.75.6.4 (PIC18F67J60)(no change same as IP-50)            U38, u38_20071107.bin(25LC1024)(no change same as IP-50)</p>	870689085

<p>17 July 2009</p>	<p>1x to 20</p>	<p><b>Release new Bare PCB 017210002-3</b></p> <p>Hardware : Change PCB board to fix reworks done in P/N 417210010-3</p> <p>Firmware : [FEATURES ADDED] 1) Screen Marker active on any Aspect Size. The on screen marker is mark to the input signal that the marker will be scaled up/down accordingly in changing the aspect ratio.</p> <p>2) Add Spanish, French, German languages support</p> <p>3) Add RS-232 commands for communication with Displaymark</p> <p>4) Add Sharp LQ072K1LA03 WXGA panel support. (SW3 (pos 1-8) : OFF-OFF-ON-ON-ON-ON-OFF-OFF)</p> <p>5) Added "No Function" item at Hotkey1 and Hotkey2</p> <p>[BUGS FIXED] 6) Bug fixed : Lost auto color gain setting when mode switching.</p> <p>7) Bug fixed : PIP Swap function bug under below procedure : &lt;Step 1&gt; Input Composite 2 on Main window &lt;Step 2&gt; Input Composite 1 on PIP window &lt;Step 3&gt; Turn off PIP and switch composite 1 become main window &lt;Step 4&gt; Use Hotkey function to change PIP size. &lt;Step 5&gt; OSD menu shows "Composite 1" on main window and "Composite 1" on PIP (Bug) &lt;Step 6&gt; Bad image found when further press "PIP Swap"</p> <p>8) Bug fixed : PIP swap bug under below procedure : &lt;Step 1&gt; Input HDMI on Main window &lt;Step 2&gt; Input Component video (1280x720) on PIP window &lt;Step 3&gt; Perform "PIP Swap" &lt;Step 4&gt; Component video display bad color on main window and wrong OSD info. (Bug)</p> <p>9). Bug fixed : IR direct source key bug. &lt;Step 1&gt; No video input state on all input ports &lt;Step 2&gt; Set "Auto Source Seek" to OFF &lt;Step 3&gt; Press IR direct source keys. &lt;Step 4&gt; Not able to switch the source (Bug)</p> <p>10) Bug fixed : No function on Mute key on IR remote control.</p> <p>11) Bug fixed : Display wrong OSD info when HD-SDI does not have signal input.</p> <p>12) Bug fixed : Zoom value does not go back to default value.</p> <p>13) Bug fixed : HDMI should not support "Custom Sizing" adjustment in the OSD menu page.</p> <p>14) Bug fixed : "Freeze" pointer still remain on OSD menu under below procedure : &lt;Step 1&gt; : Select "Freeze" &lt;Step 2&gt; OSD menu shows "o" Freeze pointer &lt;Step 3&gt; Un-freeze by doing "Zoom" function. &lt;Step 4&gt; OSD menu still shows the freeze pointer on OSD</p>	<p>870689096</p>
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<p>26 April 2010</p>	<p>20 to 21</p>	<p><b>Upgrade firmware (included above non-released versions)</b></p> <ol style="list-style-type: none"> <li>1. RS232 Command Changed Safe Area Marker from "0xee 0x46" to "0xee 0x47"</li> <li>2. Fixed PIP Blend Level command "0xed" "r" reset error</li> <li>3. Fixed Volume value error on Video Source menu.</li> <li>4. Added the IR LOCK enable and Disable at IR Remote and RS232  "0xee", "0x48", "0x30" IR Lock Disable  "0xee", "0x48", "0x31" IR Lock Enable</li> <li>5. Bug fixed : Zoom value cannot be reset after factory reset</li> <li>6. Bug fixed : Increase value of OSD timeout while enter "OSD Timeout" sub menu at the same time.</li> <li>7. CN10 audio will cut off the audio output when the current are not DVI and HDMI source input.</li> <li>8. Bug fixed : Component source affect VGA display (Display Black image &amp; show "search VGA" text at the short time)</li> <li>9. Bug fixed : Cannot search Component 1 or wrong color.</li> <li>10. Bug fixed : Wrong "Custom/Under-scan" value of Component 1</li> <li>11. Bug fixed : Auto change source port when soft power OFF -&gt; On</li> <li>12. Will not erase "Screen Marker" when Frozen image</li> <li>13. Fixed always stay on "Freeze" icon</li> <li>14. Fixed always: stay on "Mute" icon</li> <li>15. Fixed not accept "PIP Size" hotkey when frozen image</li> <li>16. Fixed Component display show red image</li> <li>17. Added zoom value will reset when changed the input source.</li> <li>18. Bug fixed : Cannot real time update OSD info after PIP swap</li> <li>19. Bug fixed : Cannot "Auto Color Gain" if "Side by Side" or "Side by Side Tall" status</li> <li>20. Added IR Disable function</li> <li>21. Bug fixed : When using IR to change color temp values, it cannot be saved.</li> <li>22. Fixed OSD Aspect/Size information error when after PIP SWAP</li> <li>23. Changed the name of "PIP Transparency" to "PIP Blend Level" on OSD menu.</li> <li>24. Fixed PIP Blend level cannot be reset after factory default.</li> <li>25. Fixed can not loop PIP status on IR key</li> <li>26. Fixed OSD Blue only = Blue monochrome problem</li> <li>27. Fixed the default value with not save problem after factory default</li> <li>28. Changed Wrong text is "hoykeys", Correct text is "hotkeys"</li> <li>29. Fixed when switch between the two there is a crack on the audio during the switch over</li> <li>30. Fixed Display Green image if DVI input(input DN5 1920x1080 signal)</li> <li>31. Fixed RS232 Command "0x80" Mute audio &amp; not Display show mute icon</li> </ol> <p>Hardware change</p> <ol style="list-style-type: none"> <li>1. Change 8pcs 0.1uF/10V capacitor(C19, C118, DC4, DC28, DC35, DC108, DC153 &amp; DC178) to voltage rating 35V to prevent it may burn out when using 12V/24V input</li> <li>2. Remove expensive and no use connector J4 (no need to remove for version upgrade)</li> </ol> <p><b>Bare PCB: 017210002-3; P/N 417210021-3</b></p> <p>BIOS: U12, V0.27.00(Flash SST39VF3201)(new)  U47, V0.30 (DVI DDC, 24C02) (new)  U49, V0.30 (HDMI DDC, 24C02) (new)  U51, V0.10 (ARGB DDC, 24C02) (no change)  U11, V0.10 (EPM3064ATC100) (no change)  U14, V0.10 (EPM3064ATC100) (no change)  U22, V0.20 (EPM3128ATC100) (no change)  U27, V3.75.6.5 (PIC18F67J60)(no change)  U38, u38_V1.00.00(25LC1024)(new)</p>	<p>870689160</p>
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<p>7 July 2010</p>	<p>2x to 30</p>	<p><b>Upgrade firmware (included above non-released versions)</b></p> <ol style="list-style-type: none"> <li>1. Added 4:3 code frame and 16:9 code frame AFD support active format code: 2,3,8,9,10,11</li> <li>2. Try to Fix color problem</li> <li>3.. Added Real Time Clock ON/OFF on OSD</li> <li>4. Added RS232 code 0xee 0x4D for real time clock On/Off</li> <li>5. Corect OSD Backlight Setting display error problem</li> <li>6.a. JC jumper JC1-4 that will enable or disable the display of this menu's lines 1 &amp; 2 ("Reset Factory Defaults", Reset factory defaults with Color Temp).</li> <li>b. Rename line 3 to "Save Current Settings as Calibrated Values.</li> <li>c. Rename line 4 to "Recall Stored Calibrated Values".</li> <li>d. Added a Double Confirm message 1-4: Are you sure? Yes,No</li> <li>e. Added "Return" on Defaults Setting menu</li> <li>7. Try to fix noise and tearing when the marker menu is displayed in 16:9 mode of 1080i.</li> <li>8. Added the new item on Save Current Settings as Calibrated Values function :             <ol style="list-style-type: none"> <li>a. Backlight Value</li> <li>b. B/L Invert</li> <li>c. B/L Control</li> <li>d. Backlight Frequency</li> <li>e. Light Detector</li> <li>f. AutoSourceSelect Port Enable Setting</li> </ol> </li> <li>8. Fix PIP Lost Position</li> <li>9. Aspect/Size 4:3 lost green dot</li> <li>10. Added RS-232 command PIP source select "0xA7", when Query feedback 0x40 0x30 = PIP off</li> </ol> <p>Hardware change: new PCB 017210003-3</p> <ol style="list-style-type: none"> <li>1. Delete J4 connector</li> <li>2. Add CN2 alternative connector for DVI port</li> <li>3. Add CN6 for future alternative ARGB support</li> <li>4. Remove R125 and R126 to separate the HDMI audio line connected to CN7 to avoid the audio jam when the HDMI audio and the audio input come from audio add-on board connected in the same time.</li> </ol> <p><b>Bare PCB: 017210003-3; P/N 417210030-3</b></p> <p>BIOS: U12, V0.33.00(Flash SST39VF3201)(new)          U47, V0.50 (DVI DDC, 24C02) (new)          U49, V0.50 (HDMI DDC, 24C02) (new)          U51, V0.10 (ARGB DDC, 24C02) (no change)          U22, V0.30 (EPM3128ATC100) (new)          U27, V3.75.6.5 (PIC18F67J60)(no change)          U38, u38_V1.00.00(25LC1024)(no change)</p>	<p>870689181</p>
<p>22 February 2011</p>	<p>30 to 31</p>	<ol style="list-style-type: none"> <li>1. Change the shipping default for IP-50 function to "Direct command" mode, by changing the firmware on U27 from V3.75.6.5 to V4.18.5.0</li> <li>2. Set high impedance to the pins 44, 56 and 58 of U22 when the pins are not used to prevent extra loading for special usage of RS-232(TTL) device.</li> </ol> <p><b>Bare PCB: 017210003-3; P/N 417210031-3</b></p> <p>BIOS: U12, V0.33.00(Flash SST39VF3201)(no change)          U47, V0.50 (DVI DDC, 24C02) (no change)          U49, V0.50 (HDMI DDC, 24C02) (no change)          U51, V0.10 (ARGB DDC, 24C02) (no change)          U22, V0.40 (EPM3128ATC100) (changed)          U27, V4.18.5.0 (PIC18F67J60)(changed)</p>	<p>870689218</p>

23 May 2011	31 to 32	<p>To improve stability of 1.8V supply to the video processor FLI30436 by changing C95 and C105 from 1uF to 100uF/6V3.</p> <p><b>Bare PCB: 017210003-3; P/N 417210032-3</b></p> <p>BIOS: U12, V0.33.00(Flash SST39VF3201)(no change)  U47, V0.50 (DVI DDC, 24C02) (no change)  U49, V0.50 (HDMI DDC, 24C02) (no change)  U51, V0.10 (ARGB DDC, 24C02) (no change)  U22, V0.40 (EPM3128ATC100) (no change)  U27, V4.18.5.0 (PIC18F67J60)(no change)</p>	870689246
23 November 2011	32 to 33	<p>Change firmware on U27 to V4.18.6.0  - fixed IP-50 loss response to IP Locator problem  Change firmware on U12 to V0.45.00.01</p> <p><b>[New panel support] :</b></p> <ol style="list-style-type: none"> <li>1) Support AU Optronics M200RW01 V1 (1600x900) panel  (SW3 1~7 : ON ON ON OFF ON ON ON)</li> <li>2) Support AU Optronics P645HW03 V0 (1920x1080) panel  (SW3 Pos 1~7 : Off Off On On Off Off Off)</li> <li>3) Support NEC NL10260BC19-01D (1024x600) panel  (SW3 Pos 1~7 : Off On On Off On On On)</li> <li>4) Support Sharp_LQ070Y3LG4A (800x480) panel.  (SW3 Pos 1-7 : On Off On Off On On On)</li> </ol> <p><b>[Bugs fixed] :</b></p> <ol style="list-style-type: none"> <li>5) Fixed the port switching error on HD-2000 (e.g Port 1 &gt; Port 2 or Port 2 &gt; Port 1)</li> <li>6) Fixed the positioning of Displaymark marker.</li> <li>7) Fixed AVI info YCBCR color detect error from HDMI source</li> <li>8) Fix Auto color Gain OSD Menu "Return" no function problem</li> <li>9) Fix PIP Lost Position bug.</li> </ol> <p><b>[Feature Enhancement] :</b></p> <ol style="list-style-type: none"> <li>10) Set 1920x1080 as preferred and still has 1920x1200 as the max on EDID contents.</li> <li>11) Update EDID file content to improve the compatibility for some particular latest graphics display card (Set "16:9" aspect ratio by changing the image size parameter in the ARGB, DVI &amp; HDMI EDID content).</li> <li>12) Add video wall support by adding the "Video Wall Setup" menu under the OSD menu location : Utilities → Setup → Video Wall Setup</li> <li>13) Add new Display mark RS-232 command to display 8 x 8 triangle placed (white / black) at the bottom right corner.</li> <li>14) Add new DisplayMark command <ol style="list-style-type: none"> <li>a. 1/2 cell block vertical size (BLACK) "0xF1 0x53 0x22"</li> <li>b. 1/2 cell block vertical size (WHITE) "0xF1 0x53 0x42"</li> </ol> </li> <li>15) Assign JC1 position 7 to enable for supporting RM-DN5 (Firmware version E1.16.10). The controller added "RM-DN5 Assembly" menu on Programming mode for selection the DN5 standard version or Serenity E1.16.10 version</li> <li>16) Added RS232 command ("0xee", "0x64") for bi-directional communication between Display Mark and IP-50.</li> <li>17) Add new serial command (0xc1 0x32 &amp; 0xc1 0x33) <ul style="list-style-type: none"> <li>0xc1 0x32 &lt;----- <b>Disable</b> Serial command only, the acknowledge state will not change</li> <li>0xc1 0x33 &lt;----- <b>Enable</b> Serial command only, the acknowledge state will not change</li> </ul> </li> <li>18) VGA DDC changed (1920x1080) and (1920x1200) used by Vesa Coordinated video timing there are Reduced Blanking.</li> <li>19) Increase the detection time on HDMI and DVI port (~ 10s), when auto source seek set "ON"</li> </ol> <p><b>Bare PCB: 017210003-3; P/N 417210033-3</b></p> <p>BIOS: U12, V0.45.00.01(Flash SST39VF3201)(changed)  U47, V0.70 (DVI DDC, 24C02) (changed)  U49, V0.70 (HDMI DDC, 24C02) (changed)  U51, V0.20 (ARGB DDC, 24C02) (changed)  U22, V0.40 (EPM3128ATC100) (no change)  U27, V4.18.6.0 (PIC18F67J60)(changed)</p>	870689277

18 January 2012	33 to 34	<p>Hardware change</p> <p>Change R184 to 2K2 to meet UL requirement for battery protection</p> <p><b>Bare PCB: 017210003-3; P/N 417210034-3</b>          BIOS: U12, V0.45.00.01(Flash SST39VF3201)(no change)          U47, V0.70 (DVI DDC, 24C02) (no change)          U49, V0.70 (HDMI DDC, 24C02) (no change)          U51, V0.20 (ARGB DDC, 24C02) (no change)          U22, V0.40 (EPM3128ATC100) (no change)          U27, V4.18.6.0 (PIC18F67J60)(no change)</p>	870689281
19 December 2012	34 to 35	<p>Hardware no change</p> <p>Change firmware on U12 to V0.50.00.00</p> <ol style="list-style-type: none"> <li>1) Support Video Wall, DVI LOOPOUT Board (DVW-1000) for the new panel wall connection. It supports DVI loop out board (DVW-1000) firmware V0.10.09 revision which uses higher baud rate (115200) between DVI loop out board and the controller. This higher baud rate is for internal communication only and the baud rate on serial communication via IP-50 remains at 2400.</li> <li>2) Support video wall power up sequence operation.</li> <li>3) Improved the HDMI colour space issue</li> <li>4) Fix "no signal" wakeup problem.</li> <li>5) Support Samsung LTM201M1-L01 (1680x1050) panel.          SW3 1-7 : On Off Off On On On On          SW4 1-6 : Off Off On On Off Off</li> <li>6) Shorten the switching time between the same input modes coming from HD-SDI input on HD-3000.</li> <li>7) Fix lost of detection with HD-SDI to HDMI adaptor board (P/N 4160167xx-3) after power cycle. (Need to work with HD-SDI to HDMI adaptor board firmware V0.73.00 or up version.)</li> <li>8) Add hotkey function to control turning PIP on and off on OSD menu &amp; RS-232 command.</li> <li>9) The IP address on the IP-50 can be changed through a web application and add support TCP/IP commands for changing between static IP and DHCP.          (This feature will implement on IP-50 network port only and effective on IP-50 firmware (U27) -V4.18.9.0)          DHCP Off: 0xee 0x70 0x41 0x30          DHCP On: 0xee 0x70 0x41 0x31</li> <li>10) Incorporate the IR display addressing capability done.</li> <li>11) Remove the WSS/AFD, and UMD function out.</li> <li>12) Support 10 bit input processing</li> </ol> <p>Change firmware on U27 to V4.18.9.0:</p> <ol style="list-style-type: none"> <li>12) The IP address on the IP-50 can be changed through a web application and add support TCP/IP commands for changing between static IP and DHCP. This feature implement on IP-50 network port only.          The default setting before shipment sets to DHCP mode.</li> </ol> <p>New Firmware on U38 "DigitalView20120813.bin":</p> <ol style="list-style-type: none"> <li>13) Fix lost of setting in IP-50 setting in random time and correct some spelling error on texts.          This bin file needs to use with IP-50 v4.18.7.0 or higher revision code.</li> </ol> <p><b>Bare PCB: 017210003-3; P/N 417210035-3</b>          BIOS: U12, V0.50.00.00(Flash SST39VF3201)(changed)          U47, V0.70 (DVI DDC, 24C02) (no change)          U49, V0.70 (HDMI DDC, 24C02) (no change)          U51, V0.20 (ARGB DDC, 24C02) (no change)          U22, V0.40 (EPM3128ATC100) (no change)          U27, V4.18.9.0 (PIC18F67J60)(changed)          U38 , DigitalView20120813.bin(new)</p>	870689344



<b>Prepared by: DV-HK</b>	<b>Date: 19 Dec 2012</b>
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