

Internal use

Part Number: 41		75200xx-3	Model:	SVH-1920v2	
DATE	VERSION		SUN	IMARY OF CHANGES	NOTE
6 November 2015	10	SUMMARY OF CHANGES           Pilot run (Only 35pcs)           Bare PCB: 017452001-3; P/N 417520010-3           BIOS:         U4, E 1.17.00.01 (Flash MX25L3206E)(new)           U29, V2.20.40 (EPM30128ATC100) (new)		ECN# N/A	
20 November 2015 14 January	20 20 to 21	Bare PCB: 017520002-3; P/N 417520020-3           BIOS:         U4, V1.17.00.00 (Flash MX25L3206E)(new)           U29, V2.30.40 (EPM30128ATC100) (new)           Change total 12 pcs resistors (R204, R206-208, R219-220 & R410-415) from		ECN# 870689537 ECN#	
2016		<ul> <li>3K3/1% to 30K/1% to fix the shade problem found at both sides of dialogue box during the movement under dark background or under a darkground with white square located at center at VGA 1 and VGA 2 inputs.</li> <li>Bare PCB: 017520002-3; P/N 417520021-3 BIOS: U4, V1.17.00.00 (Flash MX25L3206E)(no change)</li> </ul>			870689547
17 March 2016	21 to 22	<ul> <li>U29, V2.30.40 (EPM30128ATC100) (no change)</li> <li>To fix connection problem on CN1 <ul> <li>Add 4pcs 0Ω resistor at R163-166</li> </ul> </li> <li>Use new firmware V1.18.00.00 <ul> <li>Feature added :</li> <li>(1) Added Standard Gamma Selection (0.6 ~ 2.6) support on OSD menu and RS-232 command.</li> </ul> </li> <li>Bug fixed : <ul> <li>(2) Bug fixed : Fix Image jitters for scrolling text when running composite video and rotate image mode,</li> <li>(3) Bug fixed : Resized Image sizing under composite video mode</li> <li>(4) Tune the display image to center position when running normal scaling mode with HD-1000/-2000 by inputting the 720p60 SDI mode.</li> <li>(5) Fix distortion image occasionally when switching between different input resolution (e. g 1920x1200 60Hz &lt;&gt; 1600x1200 60Hz) at DVI port when running in "Aspect/Size" sets 1:1 and 1920x1200 resolution panel.</li> <li>(6) Fix to wrong message displayed ("DDC Program Error") when running into DDC Programming mode. But the DDC file content is downloaded on board correctly.</li> <li>(7) Fix the "Auto Picture Setup" function setting at VGA 2 (e.g image position) will not be memorized problem after power cycle the controller.</li> <li>(8) Fix the distortion image occasionally when switching between different input resolution (e.g 1920x1080 60Hz &lt;&gt; 1280x720 60Hz) &amp; different source inputs and different aspect size. It will resume to normal after power cycle.</li> <li>(9) Fix the distortion image occasionally after setting soft power on and off using IR remote control unit.</li> <li>(10) Fix no OSD menu item selection is allowed when entering the 2nd times to "Custom sizing" OSD menu page (Picture &gt; Aspect/Size) after power on the controller under HD/SD SDI 1 / 2 input source.</li> </ul> </li> <li>Bare PCB: 01752002-3; P/N 41752002-3 BIOS: U4, V1.18.00.00 (Flash MX25L3206E)(changed)</li> </ul>		ECN# 870689560	
31 May 2016	22 to 23	U29, V2.30.40 (EPM30128ATC100) (no change)To further improve the shade problem found at both side of dialogue box during the movement at VGA 1 and VGA 2 inputs change C94-99(total 6pcs) capacitors from 0.1uF to 0.01uFBare PCB: 017520002-3; P/N 417520023-3BIOS:U4, V1.18.00.00 (Flash MX25L3206E)(no change) U29, V2.30.40 (EPM30128ATC100) (no change)		ECN# 870689577	



Internal use

25 April	23 to 24	Change firmware on U4 to V1.26.00.00	ECN#
2017		- change details please refer to 417520031-3	870689643
		Bare PCB: 017520002-3; P/N 417520024-3	
		BIOS: U4, V1.26.00.00 (Flash MX25L3206E)(changed)	
		U29, V2.30.40 (EPM30128ATC100) (no change)	
6 June	2x to 30	Hardware change reference to 417520023-3.	ECN#
2016		Change to use VGA mux AD8187 on U31 and it's associated circuitry due to end of	870689581
		life of the existing VGA mux AD8186 used.	
		Details as below	
		- U31 changed to AD8187	
		- Change R206, R207, R220, R411, R412 & R414 to 60.4KΩ	
		- Change R204, R208, R219, R410, R413 & R415 to 27KΩ	
		- Change R194-196 to 1500hm	
		- Install R434 with $60.4K\Omega$	
		- Install R433 with $27K\Omega$	
		- Install R435-437 with $150\Omega$	
		Change U29 to V2.31.40 to distinguish AD8187 and AD8186	
		Bare PCB: 017520002-3; P/N 417520030-3	
		BIOS: U4, V1.18.00.00 (Flash MX25L3206E)(no change)	
		U29, V2.31.40 (EPM30128ATC100) (changed)	

## PRODUCT REVISION RECORD



Internal use

25 April	30 to 31	Release new firmware V1.26.00.00 on U4	ECN#
2017		Features added :	870689643
		(1) Support monochrome mode for Red, Green, Blue on OSD menu and RS-232	
		command control.	
		(2) Support the firmware upgrade via Digital input ports (HDMI/DVI).	
		(3) Support user EDID upgrade via RS-232 command.	
		(4) Add "Image Orientation" on Hotkey 1 & Hotkey 2 for user to select on OSD menu and RS-232 command.	
		Once it selects the image orientation on hotkey 1 or hotkey 2, it will cycle through	
		the 4 image orientation modes (Normal/Horizontal Flip/Vertical Flip/Rotate) by	
		pressing each time of hotkey button (SEL UP/SEL DN or + / - buttons).	
		* Not support rotate mode when running with PIP mode or Component input.	
		(5) Support "Resolution default by EDID" for different resolution panel.	
		The controller will set the preferred timing based off the dip switch setting	
		selection, but also be able to go higher to 1920x1200. For example, if the panel is a	
		1024x768 and the dip switch setting are set for $1024x768$ . The preferred EDID	
		resolution should be 1024x768. It should also have the capability to set the max resolution to 1920x1200.	
		New panel supported :	
		(6) Add Samsung ASI545FB01-0 (1920x1080) OLED panel timing	
		(SW3 position 1-8 : OFF-ON-ON-ON-OFF-OFF-OFF-ON, SW4 position 1-6 :	
		OFF-OFF-ON-OFF-OFF-	
		OFF). This panel timing is turned off the Spread Spectrum and do not transmit the H-Sync & V-Sync	
		signal to the panel.	
		(7) Support Hitachi TX48D02VM0BAA / JDI TX48D02VM0BAA (1680x1050)	
		panel	
		(Dip switch setting : SW3 position 1-8 : OFF-OFF-ON-ON-ON-ON-OFF,	
		SW4 position 1-6 : OFF-OFF-ON-ON-OFF-OFF)	
		(8) Support Sharp LQ121S1LG81 (800x600) panel. SW3 (pos 1-8) : ON-ON-OFF-OFF-ON-OFF-ON-OFF, SW4 (pos 1-6) : OFF-	
		ON-ON-OFF-OFF ON-ON-OFF-OFF	
		Problems fixed :	
		(9) Fix image jitter for scrolling text in vertical flip mode under Composite & SDI	
		input.	
		(10) Fix sizing issue on SDI mode under 480i & 576i mode.	
		<ul> <li>(11) Fixed zoom function bug :</li> <li>Not zooming to Center - If Zoom in the Picture one step, the Picture gets</li> </ul>	
		Zoomed, but also shifted to left, so there is a black strip on the right side of	
		the Screen. Even with H-Pan = $-100$ there still a black strip (cannot get scrolled	
		enough)	
		- Max zoom show 1/3 of picture distorted - If Zoom is at max, the Picture shows	
		distortion in the top $\sim 1/3$ of the Screen, which are persistent (stay as	
		long this zoom level is selected).	
		Bare PCB: 017520002-3; P/N 417520031-3	
		BIOS: U4, V1.26.00.00 (Flash MX25L3206E)(changed)	
		U29, V2.31.40 (EPM30128ATC100) (no change)	

## PRODUCT REVISION RECORD



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29 May 2017	3x to 40	<ul> <li>Release new version using new PCB 017520004-5</li> <li>Change to use the DC-DC converter (EUP3226JIR1) on U15 and U19 with associated component to replace the end of life part (EUP3420JIR1).</li> <li>Add 10V panel power selection jumper on JA3. (Must use 24V input)</li> <li>Change to use JST B3B-XH-A compatible type connector on LED1.</li> <li>Firmware no change same as 417520031-3</li> </ul>	ECN# 870689649
		Bare PCB: 017520004-5; P/N 417520040-3           BIOS:         U4, V1.26.00.00 (Flash MX25L3206E)(no change)           U29, V2.31.40 (EPM30128ATC100) (no change)	
16 October 2017	40 to 41	<ul> <li>Release new firmware V1.27.00.00 on U4 implemented the features below:</li> <li>(1) Change the gamma interpretation be : 1.8/1.9/2.0/2.1/2.2/2.3/2.4/2.5/2.6 (2.2 is</li> </ul>	ECN# 870689672
		<ol> <li>(1) Change the gamma interpretation be 1.18/1.9/2.0/2.172.2/2.3/2.3/2.3/2.3/2.3/2.3/2.4/2.4/2.3/2.4/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.4/2.3/2.4/2.4/2.3/2.4/2.4/2.4/2.4/2.3/2.4/2.4/2.4/2.4/2.4/2.3/2.4/2.4/2.4/2.4/2.4/2.3/2.4/2.4/2.4/2.4/2.4/2.3/2.4/2.4/2.4/2.3/2.4/2.4/2.4/2.4/2.4/2.4/2.4/2.4/2.4/2.4</li></ol>	
		Bare PCB: 017520004-5(Rev B); P/N 417520041-3 BIOS: U4, V1.27.00.00 (Flash MX25L3206E)(changed) U29, V2.31.40 (EPM3128ATC100) (no change)	
29 March 2018	41 to 42	<ul> <li>Running change new version to use 017520004-5 (Rev C) PCB</li> <li>Use new bare PCB (P/N 017520004-5 Rev C) with minor change to short pin 84 and pin 85 on CPLD on U29 to reserve the use of new CPLD (Atmel ATF1508ASV-15AU100-T)</li> <li>Update the CPLD code to V2.51.40 on U29 using the same CPLD (Altera EPM3128ATC100-10) as in previous version (P/N 417520041-3)</li> </ul>	ECN# 870689689
		Bare PCB: 017520004-5 (Rev C); P/N 417520042-3           BIOS:         U4, V1.27.00.00 (Flash MX25L3206E)(no changed)           U29, V2.51.40 (EPM3128ATC100) (changed)           It is not necessary upgrade the CPLD(U29) code if Rev B PCB is used.	
11 February 2019	42 to 43	<ul> <li>Release new firmware V1.29.00.00 on U4</li> <li>Fine tune the TMDS output frequency of HDMI transmitter Sil9134 to fix some marginal failure IC on NTSC/PAL mode.</li> <li>Bug fixed : Not allow to set SDI 1 on SDI 2 under PIP mode.</li> </ul> Bare PCB: 017520004-5 (Rev C); P/N 417520043-3 BIOS: U4, V1.29.00.00 (Flash MX25L3206E)(changed) U29, V2.51.40 (EPM3128ATC100) (no change)	ECN# 870689725
11 February	4x to 50	It is not necessary upgrade the CPLD(U29) code if Rev B PCB is used. Production release new version for using new CPLD IC on U29	ECN# 870689724
2019		<ul> <li>Change to use new Atmel CPLD ATF1508ASV-15AU100-T on U29 to replace EOL Altera EPM3128ATC100-10</li> <li>Release new firmware V1.29.00.00 on U4</li> <li>Fine tune the TMDS output frequency of HDMI transmitter Sil9134 to fix some marginal failure IC on NTSC/PAL mode.</li> <li>Bug fixed : Not allow to set SDI 1 on SDI 2 under PIP mode.</li> <li>Update the CPLD code to V3.40.40 on U29 for using new Atmel CPLD ATF1508ASV-15AU100-T</li> </ul>	010009124
		Bare PCB: 017520004-5 (Rev C); P/N 417520050-3           BIOS:         U4, V1.29.00.00 (Flash MX25L3206E)(changed)           U29, V3.40.40 (ATF1508ASV-15AU100-T) (new)	



Prepared by: DV-HK	Date: 14 Feb 2019
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