DIGITAL**VIEW**®

PRODUCT REVISION RECORD

Part Number:	**4172800XX-3**	Model:	**ALR-1920-SDI General**

DATE	VERSION	SUMMARY OF CHANGES	NOTE

1 September 2011	10-3	Release pilot run document for production
		Bare PCB: 017280001-3; P/N 417280010-3
		BIOS: U24, V1.02.00 (Flash PCT25VF040)(new)
		          U6, V1.00.00 (AT45DB041D)(no change)
		          U19, V0.22.00 (Atmega324PA) (no change)
			ECN#
			870689267

| 19 June 2014 | 10 to 11 | Hardware change :
 1. Add a 47K ohm resistor on R177 to improve the HDMI sync detection.

 Firmware change to V1.09.00 on U24 :
 1. Add to show EDID checksum on OSD menu after loading factory default
 2. Add PWM backlight brightness adjustment support on OSD menu. And add RS-232 command to support
　PWM backlight (0xe5, 0xe6 & 0xe7) and the default setting is --> Backlight control = PWM; Backlight Freq
　= 260Hz; Backlight = 80.
 3. Add OSD switch mount button repeat function on key "Up/Dn".
 4. Improve video image quality when present interlaced <br> video input mode for Samsung LTM220CS01 –
　1920x1200 panel (SW1=0000 0000, SW2=0100) 1 = ON, 0 = OFF.
 5. Support custom panel timing programming (*.inf) by G-Probe
 6. Add support Smart ISP programming for firmware upgrade. The user can use digital port (HDMI or
　DisplayPort) to do firmware upgrade rather than RS‐232 through CN8.
 7. Add SW1 position 4 for selection of running with standard or DN5 version (Off= standard, On =DN‐5)
 8. Add support RM‐DN5 (E1.12.10a version) code for displaying "Loading. . ." message on screen
 9. DN-5 Mode: Changed IR Hotkey "Display" key to "OSD Next" key
 10. Support DDC/Ci commands (Brightness, Contrast, RGB Gain, Power States (On, Standby, Sleep mode))-
　- On mode: Always on. Display No sync message and never goes off when no signal
　- Standby mode: Off backlight & Off panel power when no signal - Reduced power off / Sleep
　mode: Screen saver on = Always On; Screen saver off = Backlight off. Display "No sync" message for
　10sec, then off backlight
 11. Add Soft power on/off RS‐232 command "0xc8"
 12. Improve EMI performance.
 13. Set the same hotplug's behavior as ALR-1920.
 14. Set same brightness and gamma setting as SHARP's approved values.
　Set default Sharpness to 4
　Set default Color Temp to User R=100 G=100 B=100
 Add panel support :
 15. Add AUO G173HW01V0 (1920x1080) panel (SW1=0010 0000, SW2=0100) 1 = ON, 0 = OFF
 16. Add LG LP171WU6-TLA2 (1920x1200) panel (SW1=0110 0000, SW2=0100) 1 = ON, 0 = OFF
 Bug fixed :
 17. Bug fix : RS-232 command 0xE1 switch on backlight in "Sleep mode".
 18. Bug fix : Saving issue on SDI video parameter. (Brightness, Contrast & Sharpness)
 19. Bug fix : RS-232 command 0x85 error feedback issue.
 20. Bug fix : Lost color settings after power cycle at ARGB port.

 Firmware change to V1.25.00 on U19 :
 21. Enable AFD support
 22. Tuning the HD/SD-SDI supported modes colors
 23. Bug fixed : No info frame information sent out from the HD-3000 to SVX causing purple screen happen
 24. Fix AFD mode not defaulting to Fill to Aspect Ratio if AFD flag is missing.
 25. Implement black level range
 26. Prevent the lost of detection issue.
 27. Enable the 10 bit processing offically (10 bit input and 10 bit HDMI output) (please make sure it connected to the monitor with HDMI interface which supports 10 bit input signal)
 28. Remove the rang clip | ECN#
 870689438 |

		Bare PCB: 017280001-3; P/N 417280011-3
		BIOS: U24, V1.09.00 (Flash PCT25VF040)(changed)
		         U6, V1.00.00 (AT45DB041D)(no change)
		         U19, V1.25.00 (Atmega324PA) (changed)	

22 July 2014	11-3 to 12-3	**Hardware change**
		
		- Change R260 from 47ohm to 4.7Kohm to increase the PWM dimming current drawn when running on the two LG panels (LD550DUN-TGB1 & LD470EUP-SEA1).
		
		Bare PCB: 017280001-3; P/N 417280012-3
		BIOS: U24, V1.09.00 (Flash PCT25VF040)(no change)
		         U6, V1.00.00 (AT45DB041D)(no change)
		         U19, V1.25.00 (Atmega324PA) (no change)
			ECN# 870689446

7 June 2016	12-3 to 13-3	Release new firmware V1.13.00 on U24
		  1. Fixed the accuracy of backlight level in PWM and D/A mode. (It was found that the backlight level is not linear to the percentage of the level and different ranges for different PWM frequency or in D/A mode, also the system backlight level control function was replaced by own method)
		  2. Add a RS-232 Backlight Status Query command - 0xe1 "S" or 0xe1 "s".
		  3. Further tune the AUO G173HW01V0(1920x1080) panel support (SW1=0010 0000, SW2=0100), 1=on, 0=off
		  4. Fix lose Sync for switching form SDI to HDMI port issue
		  5. Improve the Image Judder running at NTSC mode.
		Change firmware on U19 to V1.27.00
		  6. Fix image problem on NTSC SDI mode support
		Hardware no change(running change VGA connector to Black color as in SVH-1920v2)
		
		Bare PCB: 017280001-3; P/N 417280013-3
		BIOS: U24, V1.13.00 (Flash PCT25VF040)(changed)
		         U6, V1.00.00 (AT45DB041D)(no change)
		         U19, V1.27.00 (Atmega324PA) (changed)
			ECN# 870689583

Prepared by: DV-HK	**Date: 7 June 2016**