

Part Number: 4173000XX-3

Model: DD-1920 General

DATE	VERSION	SUMMARY OF CHANGES	NOTE
25 August 2011	00-3	Official release to production Bare PCB: 017300000-3; P/N 417300000-3 BIOS: U12, V1.00.00 (Flash PCT25VF040)(new) U3, V0.30 (HDMI DDC, 24C02)(new)	ECN# 870689264
27 April 2012	00-3 to 01-3	Firmware change : Feature added or improvement : 1. Add PWM backlight brightness adjustment support on OSD menu. And add RS□232 command to support PWM backlight (0xe5, 0xe6 & 0xe7) 2. 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. 3. Add to show EDID checksum on OSD menu after loading factory default. 4. Improve the response time when adjusting color temperature by DDC/CI 5. Add SW1 position 4 for selection of running with standard or DN5 version (Off= standard, On =DN□5) 6. Add support RM□DN5 (E1.12.10a version) code for displaying "Loading. . ." message on screen 7. DN□5 Mode: Changed IR Hotkey "Display" key to "OSD Next" key 8. Support DDC/Ci commands (Brightness, Contrast, RGB Gain, Power States (On, Standby, Sleep mode)) <ul style="list-style-type: none"> • 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 9. Set the default of OSD menu position on the upper left corner when connecting with NEC NL8060BH18□02 800x600 (3D) panel. 10. Add Soft power on/off RS□232 command "0xc8" Bug fixed : 11. Bug fix on loosing the settings of Display port after power cycle 12. Bug fix for reporting incorrect RS□232 commands from Phase (0x85), Sharpness (0x8A) New panel support : 13. Support Samsung LTI400HA01 1920x1080 panel support (typical timing)(SW1=0100 0000, SW2=0101) 1 = ON, 0 = OFF 14. Add Samsung LTI430LA01 (1920x480) panel support (SW1=1001 1110, SW2=0000) 1 = ON, 0 = OFF 15. Add NEC NL8060BH18□02 800x600 panel support (SW1=1001 1010, SW2=1001) 1 = ON, 0 = OFF Bare PCB: 017300000-3; P/N 417300001-3 BIOS: U10, V1.04.00 (Flash PCT25VF040)(changed) U12, V0.30 (HDMI DDC, 24C02)(new)	ECN# 870689300

31 October 2013	01 to 02	<p><i>Upgrade firmware</i></p> <p>Add support CVT (Coordinated video timings) modes (840x480, 1280x800, 1366x768, 1440x900). The CVT timings selection can be selected through OSD menu.</p> <p>Bare PCB: 01730000-3; P/N 417300002-3 BIOS: U12, V1.07.00 (Flash PCT25VF040)(changed) U3, V0.30 (HDMI DDC, 24C02)(no change)</p>	ECN# 870689402
5 August 2014	02 to 03	<p><i>Hardware change</i></p> <p>- Change R136 from 47ohm to 4.7Kohm to increase the PWM dimming current drawn when running on the two LG panels (LD550DUN-TGB1 & LD470EUP-SEA1).</p> <p>Bare PCB: 01730000-3; P/N 417300002-3 BIOS: U12, V1.07.00 (Flash PCT25VF040)(no change) U3, V0.30 (HDMI DDC, 24C02)(no change)</p>	ECN# 870689449
15 July 2016	03 to 04	<p>Release new firmware V1.14.00 on U12</p> <p>(1) Improve 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)</p> <p>(2) 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</p> <p>(3) Support NEC NL10276BC13-01C (1024x768) panel which fix the flickering image when power cycle. It only supports 640x480, 800x600, 1024x768 & 1280x768 input resolutions. (Dip switch setting : SW1=0111 0010, SW2=1000, [0=OFF, 1=ON])</p> <p>Bare PCB: 01730000-3; P/N 417300004-3 BIOS: U12, V1.14.00 (Flash PCT25VF040)(changed) U3, V0.30 (HDMI DDC, 24C02) (no change)</p>	ECN# 870689597
14 October 2016	04 to 05	<p>Release new firmware V1.15.00 on U12</p> <p>1. Enable back the SPDIF audio output selection on OSD menu (under OSD menu > "Sound" > "Output"> "SPDIF")</p> <p>2. Bug fixed found in V1.07.00 or older firmware : The audio output cannot be muted after changing to another audio output port (Speakers/SPDIF) select. For example : Select audio output to "SPDIF" (under OSD menu > Sound > Output > SPDIF) and set Mute to ON, it gives sound output wrongly after changing to audio output to "Speakers" (under OSD menu > Sound > Output > Speakers)</p> <p>Bare PCB: 01730000-3; P/N 417300005-3 BIOS: U12, V1.15.00 (Flash PCT25VF040)(changed) U3, V0.30 (HDMI DDC, 24C02) (no change)</p>	ECN# 870689612

<p>13 September 2017</p>	<p>05 to 06</p>	<p>Release new firmware V1.16.00 on U12</p> <p>(1) Support "Resolution default by EDID" for different resolution panel.(same as done on DD-1920-HDMI) 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.</p> <p>(2) Bug fixed on overflow the RS-232 command. (Same as done on DD-1920-HDMI)</p> <p>(3) Add panel support : NEC NL10276BC24-21F (1024x768) panel (same as done on DD-1920-HDMI) SW1=1110 0010, SW2=1000, (0=Off, 1=On)</p> <p>Bare PCB: 01730000-3; P/N 417300006-3 BIOS: U12, V1.16.00 (Flash PCT25VF040)(changed) U3, V0.40 (HDMI DDC, 24C02) (changed, 1920x1200, CS=45,48)</p>	<p>ECN# 870689667</p>
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Prepared by: DV-HK

Date: 13 Sept 2017