

Part Number: **4177500XX-3** Model: **DT-1920-VGA**

DATE	VERSION	SUMMARY OF CHANGES	NOTE
7 July 2020	00	<p>Official release DT-1920-VGA with firmware V1.00.00  DT-1920-VGA feature list</p> <ol style="list-style-type: none"> <li>1) Support up to 1920x1200 resolution panel.</li> <li>2) 3.3V / 5V / 12V panel support.</li> <li>3) 8 bit controller platform.</li> <li>4) LVDS (Single &amp; Dual channel) panel support only.</li> <li>5) Backlight control : Analog or PWM</li> <li>6) Support VGA signal up to 1920x1200 60Hz resolution.</li> <li>7) Multi panel support by changing the dip switch setting on board.</li> <li>8) Support "Resolution default by EDID" for different resolution panel.</li> <li>9) DV RS-232 control serial protocol support.</li> <li>10) IR remote control support.</li> <li>11) Reserved for 2 pins light sensor connection which can connect with Light sensor kit 7200-3 or light sensor cable P/N 426005800-3, but not support the old light sensor kit 70220-3.</li> <li>12) Reserved for temperature sensor connection which can connect with temperature sensor cable P/N 426307600-3.</li> <li>13) Dual color LED connector and on board LED reporting controller status.</li> <li>14) On board LED reporting power input status.</li> <li>15) On board Temperature sensor</li> <li>16) Reserved extra mounting PADs for installing the vertical type LVDS connector, FI-RE51S-VF.</li> <li>17) Design for 12VDC power input.</li> <li>18) Board size : 62.7mm x 91.4mm</li> </ol> <p><b>Bare PCB: 017750000-5 Rev B; P/N 417750000-3</b>  BIOS: U6, V1.00.00 (Flash MX25L8006EM1I-12G(new)  U14, Checksum: CF, 1D (VGA DDC, 24C02)(new)</p>	<p>ECN#  TW870688  091</p>
11 January 2023	00 to 01	<p><b>Hardware no change</b>  Update firmware on U6 to V1.01.00  Feature change :</p> <ol style="list-style-type: none"> <li>1) Add Saturation RS-232 command ('0x83'), Range: "0x00"- "0x64", Default: 0x32".</li> <li>2) Add Hue RS-232 command ('0x84'), Range: "0x00"- "0x64", Default: "0x32".</li> <li>3) New EDID update process is applied, EDID data will not read/write until the panel DIP switch setting has been changed to other resolution.</li> <li>4) Changed "+" / "-" button to control the Backlight brightness hotkey function. And 'Up'/'Dn' remains no function for single input.</li> </ol> <p>Bug fixed :</p> <ol style="list-style-type: none"> <li>5) Fixed the issue on the time to send RS-232 commands needs to be one second apart.</li> <li>6) Bug fixed on RS-232 command - '0xC4' (Command availability)</li> <li>7) Bug fixed on RS-232 command ('0xE6') not save value.</li> <li>8) Bug fixed on no feedback on RS-232 command ('0xC4 0xEE 0x74').</li> </ol> <p>Panel support :</p> <ol style="list-style-type: none"> <li>9) Support KOE TX26D202VM0BAA panel by using existing 1920x1200 panel timings (SW1=1000 0000, SW2=0100 )</li> <li>10) Support NEC NL12876BC26-25 1280x768 panel (SW1=1011 1100, SW2=1100)</li> <li>11) Support NEC NL10276BC24-21F 1024x768 panel.(SW1=1001 0010, SW2=1000), supported 640x480, 800x600 and 1024x768 60Hz input modes only.</li> <li>12) Support NEC NL10276BC20-04 1024X768 panel (SW1=0101 0010 , SW2=1000).</li> <li>13) Support KOE TX20D208VM0BAA 800X480 panel (SW1=1001 0110 , SW2=1000).</li> </ol> <p>(1=ON, 0=OFF)</p> <p><b>Bare PCB: 017750000-5 Rev C; P/N 417750001-3</b>  BIOS: U6, V1.01.00 (Flash MX25L8006EM1I-12G(new)  U14, Checksum: CF, 1D (VGA DDC, 24C02)(no change)</p>	<p>ECN#  TW870688  162</p>

**Prepared by: DV-HK**

**Date: 11 Jan 2023**