

## Comparison: ALR-1920 & ALT-1920

The ALR-1920, launched in 2011, and the ALT-1920 launched in 1H 2019, are very similar products. The table below highlights these similarities and a few differences.

INPUT & PANEL RESOLUTION	ALR-1920	ALT-1920
640x480 (VGA)	✓	✓
800x480 (WVGA)	✓	✓
800x600 (SVGA)	✓	✓
1024x600 (WSVGA)	✓	✓
1024x768 (XGA)	✓	✓
1280x1024 (SXGA)	✓	✓
1366x768, 1280x768 (WXGA)	✓	✓
1400x1050 (SXGA+)	✓	✓
1280x800, 1440x900 (WXGA)	✓	✓
1600x1200 (UXGA)	✓	✓
1920x1080, 1920x1200 (WUXGA)	✓	✓
Custom – within range	✓	✓
INPUT CONNECTORS & SIGNALS	ALR-1920	ALT-1920
ARGB(15 Pin VGA)	✓	✓
HDMI (Type A)	✓	✓
Displayport	✓	✓
PANEL INTERFACE	ALR-1920	ALT-1920
LVDS Panel Interface	✓	✓
Panel bit level	8 bit	8 bit
Panel vertical refresh	60Hz	60Hz
FUNCTIONS	ALR-1920	ALT-1920
Image Up Scaling	✓	✓
Image Down Scaling	✓	✓
Multi-panel support	✓	✓
Infra-Red Remote control	✓	✓
Picture In Picture / Picture By Picture	x	x
Memory Buffer	x	x
RS-232 Serial – DV protocol	✓	✓
Graphic Image Flip (H&V)	x	x
Variable Aspect Ratio	x	✓
Freeze & Zoom function	x	x
Pre-defined Hot Keys	✓	✓
DDC/CI support	✓	✓
Hardware	ALR-1920	ALT-1920

On board LED driver	x	x
Audio line-out (stereo)	✓ with amplification	✓ without amplification
SPDIF digital audio output	✓	✓
Audio jack (stereo) out	✓	✓
OSD switch mount connector type	Hirose DF13A-12P-1.25H	Hirose DF13A-12P-1.25H
LVDS output connector	JAE 51 way	JAE 51 way
Audio board connector	x	x
Firmware Upgrade (via)	RS-232/Smart ISP	VGA/HDMI/Service port via external programming board same as ALR-1400v2.
Panel support voltage	3.3/5/12/18V	3.3/5/12/18V
Input Power Range	12v/24v ± 5%	12v/24v ± 5%
Dimensions (mm)	107x92	107x92
Mounting holes	-	Same as ALR-1920
External connectors (video signal, power)	-	Same as ALR-1920

### Connectors:

	ALR-1920	ALT-1920
<b>LVDS connector (J3)</b>	JAE FI-RE51S-HF (Mating type : JAE FI-RE51HL)*	JAE FI-RE51S-HF (Mating type : JAE FI-RE51HL)*
<b>Serial control connector (CN8)</b>	Molex 53261-0671, 6 ways 1.25mm pitch (Mating type : Molex 51021-0600)	Molex 53261-0671, 6 ways 1.25mm pitch (Mating type : Molex 51021-0600)
<b>Auxiliary power output connector (CNA1)</b>	JST 4-way, S4B-XH-A (Mating type : XHP-4)	JST 4-way, S4B-XH-A (Mating type : XHP-4)
<b>Backlight inverter connector (CNB1)</b>	JST 5-way, S5B-XH-A (Mating type : XHP-5)	JST 5-way, S5B-XH-A (Mating type : XHP-5)
<b>OSD switch connector (CN8)</b>	Hirose DF13A-12P-1.25H (Mating type : DF13-12S-1.25C)	Hirose DF13A-12P-1.25H (Mating type : DF13-12S-1.25C)
<b>IR sensor connector (IR1)</b>	Molex 53261-0371 (Mating type :51021-0300)	Molex 53261-0371 (Mating type :51021-0300)
<b>Backlight Status input (CNB2)</b>	JST S2B-XH-A (Mating type : XHP-2)	JST S2B-XH-A (Mating type : XHP-2)
<b>SPDIF audio output (CN11)</b>	JST 2 way, S2B-ZR-SM4A (Mating type : ZHR-2)	JST 2 way, S2B-ZR-SM4A (Mating type : ZHR-2)
<b>Line-in (stereo) for VGA only (CN13)</b>	n/a	JST B4B-PH-K-S compatible (Matching type : PHR-4)

<b>Audio line-out (stereo), with amplification from HDMI / Display port (CN1)</b>	JST 4-way, S4B-ZR-SM4A (Mating type : ZHR-4)	n/a
<b>Audio line-out, no amplification (stereo) from HDMI/Display port/line-in (stereo), CN13 port (CN14)</b>	n/a	JST B4B-PH-K-S compatible (Matching type : PHR-4)
<b>Dual color LED connector for controller status (LED1 &amp; LED1A)</b>	JST 3-way, S3B-ZR-SM4A (Mating type : ZHR-3)	JST 3-way, S3B-ZR-SM4A (Mating type : ZHR-3)
<b>Dual color LED connector for backlight status (LED2 &amp; LED2A)</b>	JST 3-way, S3B-ZR-SM4A (Mating type : ZHR-3)	n/a
<b>VGA signal input (P1)</b>	DB-15 way high density 3 row	DB-15 way high density 3 row
<b>HDMI signal input (P3)</b>	HDMI connector (Type A)	HDMI connector (Type A)
<b>Displayport input (P4)</b>	Displayport connector	Displayport connector
<b>Audio jack (Stereo) output, from HDMI/ Displayport (J1)</b>	3.5 Phone jack	3.5 Phone jack
<b>Power input (PP2)</b>	Molex 43650-0200 compatible (Mating type : Molex 43645-0200 compatible)	Molex 43650-0200 compatible (Mating type : Molex 43645-0200 compatible)
<b>Board Dimension</b>	107 x 92mm	107 x 92mm

\* Yellow highlights the differences

### On Screen Display functions:

	ALR-1920	ALT-1920
Black level	√	√
Contrast control	√	√
Sharpness	√	√
Auto Color Calibration (VGA only)	√	√

Color Temperature (4200K/5000K/6500K/7500K/9300K/USER)	√	√
Auto Adjust	√	√
Phase	√	√
Clock	√	√
Display Position	√	√
Gamma	√	√
Backlight option - Invert - Control D/A /PWM - Frequency - Backlight brightness	√ Invert Control D/A /PWM Frequency Backlight brightness	√ Invert Control D/A /PWM Frequency Backlight brightness
Volume	√	√
Mute	√	√
Audio output selection	√	-
Input source selection (VGA/HDMI/Displayport)	√	√
Auto Source Seek	√	√
OSD Timeout	√	√
OSD menu rotation (0/90/180/270 degree)	√	√
OSD menu position adjustment	√	√
OSD Transparency	√	√
Aspect ratio*	X	√ Fill screen 4:3
OSD menu Language	√ English	√ English
Load Factory Defaults	√	√
Information	√	√

**\* Yellow highlight states the differences**