BR420L V1.2.0.0 Firmware Program Release Notes

Release

1. 2026-03-31 V1.2.0.0

Features

1. Maximum load capacity: 512×512 pixels

2. Up to 1/64 scan

3. Up to 40 groups of parallel data, 64 groups of serial data (expandable to 128 groups of serial data). Note: physical load capacity.

4. Color management

5. 18bit+

6. Pixel level brightness and chroma calibration

7. Quick adjustment of dark or bright lines. Note: Supports adjustment without an input source, and supports independent on/off control.

8. Low latency. Note: Low latency is enabled by default, and non-low latency is not supported.

9. 3D. Note: The load capacity will be reduced by half.

10. Individual gamma adjustment for RGB

11. Image rotation in 90° increments

12. Free image rotation

13. HDR function

14. Automatic module calibration

15. Module flash management

16. One click to apply calibration coefficients in module flash

17. Mapping function

18. Settings of a stored image in the receiving card

19. Temperature and voltage monitoring

20. Cabinet LCD. Note: dedicated firmware required.

21. Bit error detection. Note: number of Ethernet cable disconnections.

22. Firmware program readback

23. Configuration parameter readback

24. Loop backup

25. Dual backup of configuration parameters

26. Dual program backup

27. No rectangle restriction. Note: Works with all-in-one controllers.

28. Adjustable EMC. Note: Works with LCT 5.4.8 or later.

29. Input source supports 10bit/12bit. Note: When used with an M3 sending card, 10-bit/12-bit sources support a load capacity of 512×384 pixels. With a COEX sending card, 10-bit sources support 512×512 pixels, while 12-bit sources support 512×384 pixels.

30. Dynamic sub-pixel rendering

31. Multi-mode

32. LVDS Transmission

Others

1. No additional notes listed.

Driver Chips

1. MBI series: MBI5264, MBI5268
2. SUM series: SM16389SF, SM16389, SM16169SH (SM16380SH, SM16380SW, SM16169SW, SM16386)
3. DP series: DP3264 (DP3256), DP3265 (DP3356, DP3364), DP3269, DP3368, DP3254 (DP3252, DP3153)
4. ICN series: ICN2055 (ICN1069), ICN2065 (FM6565), ICN1065S, ICN2069 (FM6565), ICN3065, ICND1068
5. CFD series: CFD555A, CFD555B, CFD535A (CFD555B), CS2066
6. HX series: HX8863, HX8864, HX8865, HX8964
7. FM series: FM6864 (MBI5264)

Decoder Chips

1. Static, pass-through
2. Common decoder chips: 74HC595
3. SM series: SM5366, SM5368
4. RT series: RT5953, RT5958
5. ICN series: ICN2018, ICN2019
6. DP series: DP32019, DP32020
7. HX series: HX6158H
8. D series: D7266
9. FM series: FM7519
10. CFD series: CFD2138s