MRV532 V1.2.0.0 Program Release Notes

Release

1. 2024.10.24 V1.2.0.0

New Features

1. NCP backup and restoration.

Improvements

1. Improved the mapping display effect for 10-bit and 12-bit sources.

2. Enhanced the receiving card's load capacity to reduce insufficiencies in certain application scenarios.

Bug Fixes

1. Fixed the discrepancy between the setup guidance and intended settings during smart configuration for certain ICs.

2. Fixed black or distorted screen issues when low latency mode is toggled off.

3. Fixed the logic for load calculation in receive, which was inconsistent with DDR partitioning.

4. Fixed the misalignment of display effects during seam correction.

5. Fixed cursor display issues during seam correction for dynamic sub-pixel rendering.

6. Fixed defects in thermal coefficient saving and loading logic.

7. Fixed the gamma overexposure issue when sending configuration file with 18-bit selected.

8. Fixed NovaTag error when saving calibration coefficients to modules.

9. Fixed the issue with the remainder operation in full-grayscale coefficient erasure.

10. Fixed the issue where reading back configuration file twice altered the width and height values on the receiving card.

11. Fixed the issue of inadequate space allocation in logic table 04, where data was overwriting subsequent receiving card parameters, leading to field frequency 1.0 parameter being overwritten.

Features

1. The load capacity is up to 512×512 pixels (when using PWM IC, and common IC is not supported).

2. Up to 1/64 scan.

3. Up to 40 groups of parallel data or 64 groups of serial data (expandable to 128 groups of serial data). Note: This is for physical data group load.

4. Color management.

5. 18bit+.

6. Pixel level brightness and chroma calibration.

7. Quick seam correction. Note: Performing without input source is supported and independent on/off switch is also supported.

8. Low latency. Note: This is enabled by default and cannot be disabled.

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. Smart module (dedicated firmware required).

15. Automatic module calibration.

16. Quick uploading of calibration coefficients.

17. Module flash management.

18. One click to apply calibration coefficients in module flash.

19. Mapping function.

20. Settings of a stored image in the receiving card.

21. Temperature and voltage monitoring.

22. Cabinet LCD. Note: Only 5-Pin LCD is supported (dedicated firmware required).

23. Bit error detection.

24. Firmware program readback.

25. Configuration parameter readback.

26. LVDS transmission (dedicated firmware required).

27. Loop backup.

28. Dual backup of configuration parameters.

29. Dual program backup.

30. No rectangle restriction. Note: Require working with all-in-one products.

31. Adjustable EMC. Note: Require working with NovaLCT 5.4.8 or later.

32. Input source supports 10-bit/12-bit. Note: 1. When used with a third-generation sending card, 10-bit/12-bit sources support load capacity of 512×384 pixels. 2. With a fourth-generation sending card, 10-bit sources support full load capacity, while 12-bit sources support a load capacity of 512×384 pixels.

33. Dynamic subpixel rendering.

34. NCP backup and restoration.

Others

1. The load calculations for Silan chips, and ICN1065, ICN1063, ICN2263 from Chipone are based on logical data groups.

Driver IC

1. MBI series: MBI502x, MBI503x, MBI5040, MBI5041(B), MBI5042(B), MBI5043, MBI505x, MBI5124 (excluding MBI5124DPWM), MBI5125 (excluding MBI5125DPWM), MBI515x, MBI5252, MBI5353, and MBI5153B.

2. SUM series: SUM20167, SUM2017 (T), SUM2028, SUM203x, SUM213x.

3. MY series: MY9266, MY9269, MY9366, MY9862, MY9868.

4. ICN series: ICN2027, ICN2028, ICN2038, ICN2038S, ICN2053, ICN2055, ICN2063.

5. SM series: SM16158, SM16159, SM16207, SM16227, SM16237, SM16259.

6. Others: TLC5958, TLC59581, SCL8060.

Decoding Chip

1. 74HC138 (Note: 138 decoding type supports only 8-scan) and 74HC595.

2. RT5953, RT5958.

3. SM5266.

4. ICN2012/2013, ICN2018/2019.