**MRV366 V4.6.1.0 Update Notes**

## V4.6.1.0

**Updates:**

1. Fixed the parameter readback problem of irregular cabinets in V4.6.0.0.
2. Fixed the problem that the display driven by SUMACRO chips gets stuck.
3. Optimized the photographing effect of the display driven by dual latch chips.
4. Optimized the effect of display driven by the 16359 and 5366 chips together.
5. Optimized the PHY configuration to improve communication stability.

# Earlier Versions

## V4.6.0.0

**Updates:**

1. Supports the SM16169, SM16359, ICN2046 ICN2055 and ICN2065 driver chips.
2. Supports the SM5366 decoding chip.
3. Supports column scanning for all the supported decoding chips (working with NovaLCT V5.2).
4. Supports random order scanning (working with NovaLCT V5.2 or later).
5. Supports data row extracting for special modules (working with NovaLCT V5.2 or later).
6. Supports bit error rate monitoring (working with NovaLCT V5.2 or later).
7. Supports individual Gamma adjustment for RGB.
8. Supports cabinet LCD backlight control and run time resetting (working with NovaLCT V5.2).
9. Supports 1/64 scan display.
10. Supports calibration threshold adjustment (working with NovaLCT V5.2).
11. Removed support for setting of pre-stored image on receiving card.
12. Removed support for serial data set.
13. Fixed the problem that the position of displayed mapping information has an offset if the cabinet has more than 2048 pixels.
14. Fixed the problem that the mapping between saved calibration data and pixels is wrong after the calibration data is uploaded quickly if the MRV366 loads a display with more than 256×256 pixels.

**Notes:**

1. From V4.5.x.x to V4.6.0.0 or later, the mechanism of status indicator (green) is changed from flashing once every other 0.5s to every other 1s in normal operating mode.
2. After the program is updated from V4.5.x.x to V4.6.0.0 or later, the parameters must be sent again if the original configuration file contains data group exchange information.
3. For the update from V4.5.x.x to V4.6.0.0 or later, the program must be updated twice to save the new Gamma table of brightness adjustment and the font library of Mapping to Flash.

## V4.5.9.0

**Updates:**

1. Optimized the PHY configuration to improve communication stability.

## V4.5.6.0

**Updates:**

1. Optimized the afterglow effect when ICN2053 is used.
2. Optimized the calibration data calculation precision to fix the mottling problem on the display after the calibration data is uploaded.

## V4.5.5.0

**Updates:**

1. Supports the MBI5353, MBI5353B and SM16259 driver chips.
2. Supports the ICN2018 and ICN2019 decoding chips.
3. Supports the serial mode. Supports up to 64 sets of serial data.
4. Supports Mapping function.
5. Supports the grayscale preferred brightness adjustment mode.
6. Optimized the timing of SM5266 to fix the display problem when the SM5266 works with the SM16237/16259 chip.
7. Fixed the problem that the display at low grayscale condition is uneven when the MBI5042/5043 chip is used.
8. Fixed the problem that the topologies of Ethernet port 5 and subsequent ports are wrong in redundancy mode.

**Notes:**

For the update from V4.5.4.0 or earlier to V4.5.5.0, the program must be updated twice to save the new Gamma table of brightness adjustment and the font library of Mapping to Flash.

## V4.5.4.0

**Supported driver chips:**

1. MBI series: MBI502x, MBI503x, MBI5041(B), MBI5042(B), MBI5043, MBI505x, MBI5124 (excluding MBI5124DPWM), MBI5125 (excluding MBI5125DPWM), MBI515x, MBI5252
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
5. SM series: SM16158, SM16159, SM16207, SM16227, SM16237
6. Others: TLC5958, TLC59581, SC8060, common chips

**Supported decoding chips:**

1. 74HC138 chip
2. 74HC595 chip
3. RT5953 and RT5958 chips
4. SM5266 chip

**Common functions:**

1. Maximum loading capacity: 512×256 pixels (8-bit video sources), 256×256 pixels (12-bit video sources/3D mode)
2. Up to 32 sets of parallel data supported
3. Temperature and voltage monitoring
4. Setting of pre-stored image on receiving card
5. Pixel level brightness and chroma calibration
6. Quick seam correction
7. 5-pin LCD module supported
8. Readback of firmware program
9. Readback of configuration parameters
10. Dual backup of program
11. Loop backup

**Notes:**

1. The LED error detection function (of MBI5051B, MBI5153, MBI5252, MBI5353, ICN2053, SM16159, SM16237 and SM16259 chips) must work with NovaLCT V5.0.0 or later.
2. The MRV366 supports linear mode, namely linear cabinet connection (supports only horizontal connection currently and no data of pixels are extracted). This mode increases the loading capacity of the MRV366 up to 256×512.
3. The display driven by the MY9862, MY9868 or ICN2038 chip must be lit through the MY9862A, MY9868A or ICN2038A chip in the smart settings.