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How to modify color parameters of LCD Large Screen
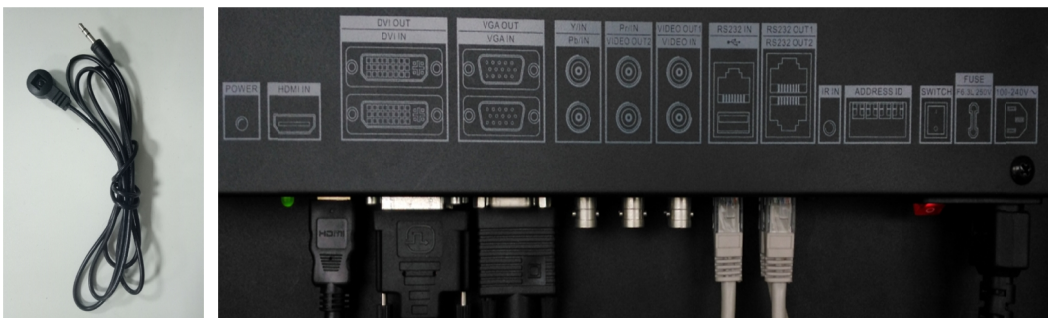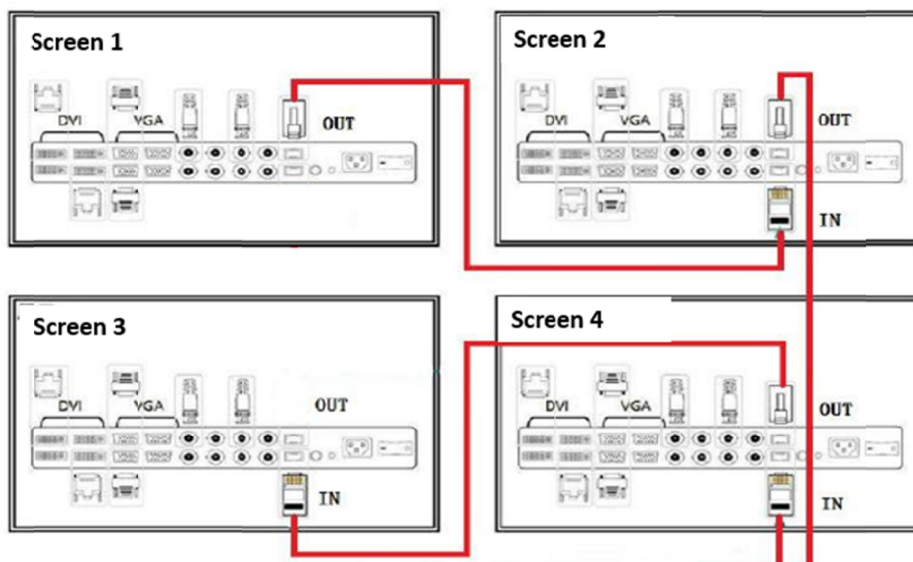
HIKVISION TECHNICAL SUPPORT TEAM

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How to modify color parameters of LCD Large Screen

Due to the feature of liquid crystal material, the color of LCD screens differs from each other when leaving the factory. So at project site, it is necessary to modify the color parameters to make them look same. This document is intended to introduce the method of how to modify color parameters of LCD large screen via remote control

1. Connect control cables and infrared probe on the large screen, the rear panel of LCD display unit is shown as below

Control cables are for loop output and splicing display, it transmit control signals between screens, standard cables are network cable with RJ45 interfaces, connect the RS232 OUT1 of x with the RS232 IN of x+1, as the picture below shows

Connect the infrared probe to IR IN of Screen 1(the source of control signals), and put the other side on the front of LCD display unit, making sure the infrared signals from remote control can be detected
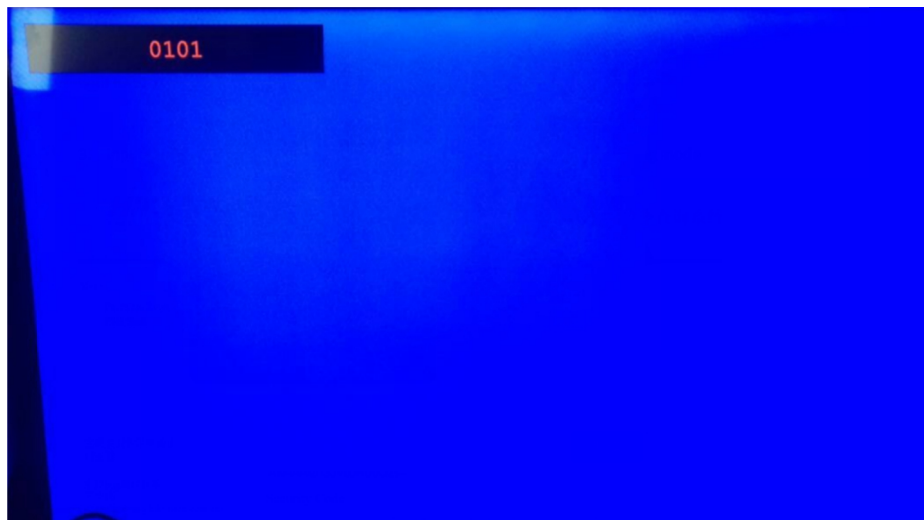
2.   ID selection

Press IDSEL to call the ID number of large screens(the original ID number of LCD unit is 0101, when delivering at porject site, different ID numbers need to be configured, the configuretion can be realized with MENU)

Press the numbers accordingly to select certain screen, e.g. press 0101 to select the screen with ID 0101, once selected successfully, the ID number of that screen will turn red
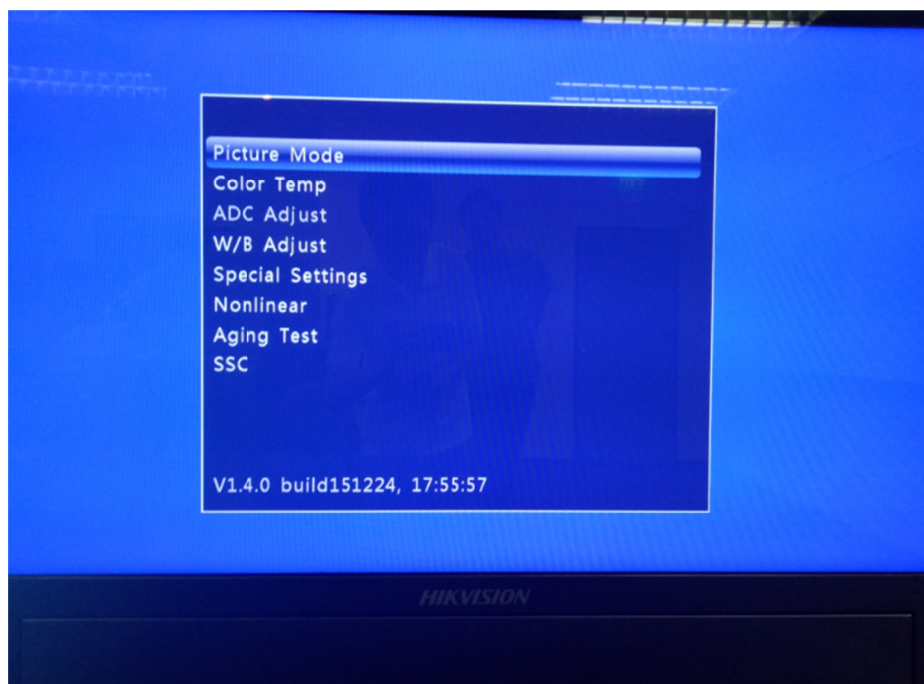

3. Enter factory mode

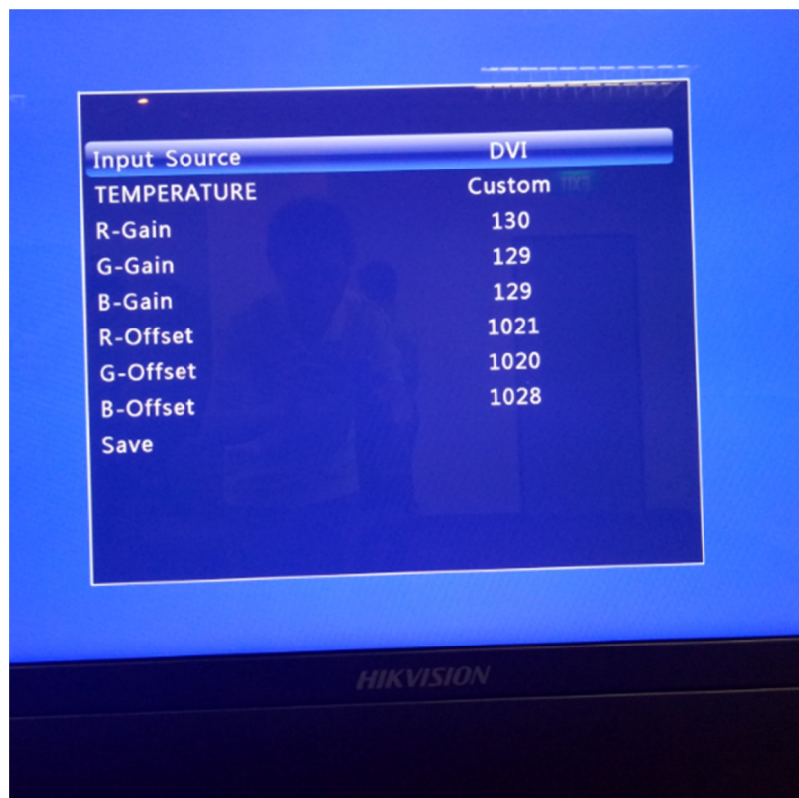Once the screen is selected, press SOURCE 2 5 8 0 in turn to enter the factory mode, press

 and to select different menu, press OK / Menu to enter / quit

4. Modify color parameters

Enter Color Temp, press and to select certain value, and press and to change the parameters

Appendix

1.   Principle of color modification

White color is composed of red, green, and blue

Red + Green + Blue = White

Red + Green = Yellow

Red + Blue = Magenta

Green + Blue = Cyan

2.   Modification method and steps

Display a white background on the LCD screen

If the source is rich in red: lower R-Gain & increase G-Gain, B-Gain

If the source is rich in green: lower G-Gain & increase R-Gain, B-Gain

If the source is rich in blue: lower B-Gain & increase R-GAIN, G-Gain

If the source is rich in yellow: lower R-GAIN, G-Gain & increase B-Gain

If the source is rich in magenta: lower R-Gain, B-Gain & increase G-Gain

If the source is rich in cyan: lower G-Gain, B-Gain & increase R-Gain

If the source is dark: increase R-GAIN, G-Gain, B-Gain at the same time to make it brighter

If the source is bright: lower R-GAIN, G-Gain, B-Gain at the same time to make it darker

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