

# 1. Overview

## VIC Technology

### Present Status

- Currently LCD technology is focused on single display products
- Color & Brightness difference can be easily detected in Videowalls



# 1. VIC Technology Overview

## VIC Technology

### Improvements

- Developed a new technology to make Videowall look like one display by minimizing Color & Brightness difference between displays and within each display

**Like One Display**



## 2. What is VIC

Applying VIC technology to Videowall, compensating Color and Brightness difference in circuit part with algorithm to **create different displays look "Like One Display"**

### Process Flow

#### 01 Compensation within a LCM

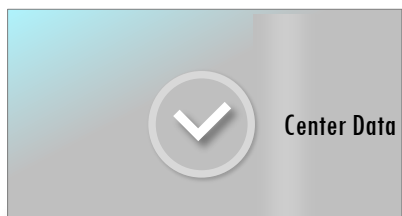


Before VIC



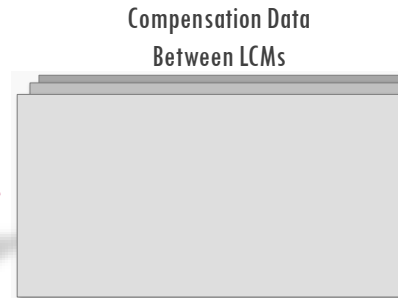
Compensation Data  
within a LCM

Compensation Based on  
Center Data of LCM



Center Data

#### 02 Compensation between different LCMs

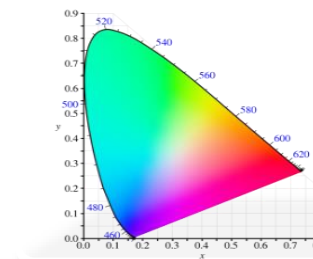


Compensation Data  
Between LCMs



✓ After VIC

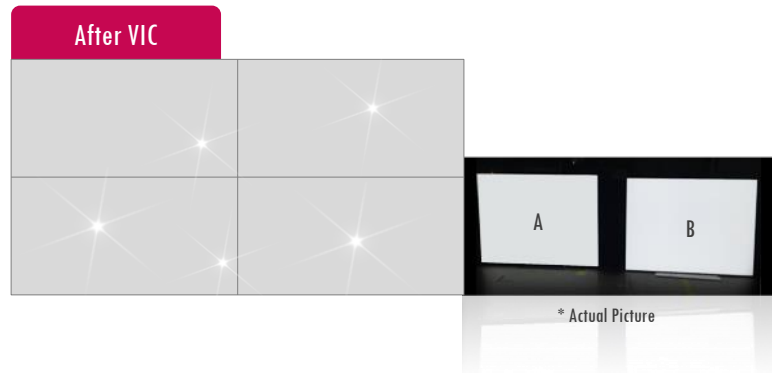
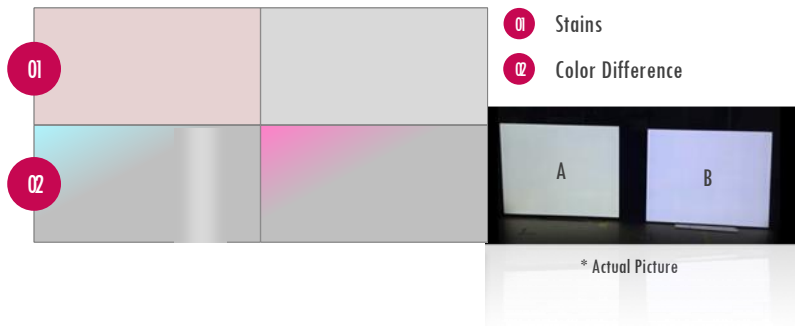
Compensation Based on  
Standard Color Coordinate



Standard Color Coordinate

## 2. What is VIC

### Improvements



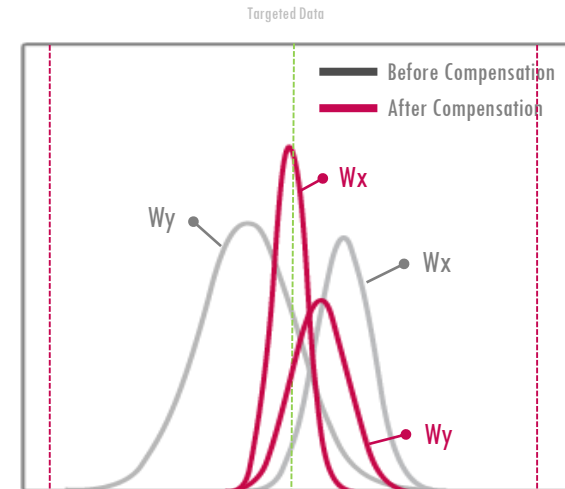
### Results

Color Coordinate Spec. Improved  
Data Sheet Spec. Updated

$\pm 30/1000$

$\pm 20/1000$

(33% improved)



\*  $\Delta 5/1000$  Color difference is noticeable to human eyes

### 3. VIC Improvements

Before VIC



### 3. VIC Improvements

After VIC



# 3. VIC Improvements

- Actual Product Picture -



# 4. VIC Advantages

## Perfect Uniformity

① Simplifying Customer's Calibration Process!

Before VIC



Customer is required to proceed Calibration Process

VS

After VIC



Customer's Calibration Process is simplified



# 4. VIC Advantages

## Perfect Uniformity

② Simplifying Calibration Process for replacement

Before VIC



VS



After VIC



Entire Calibration process is required for Replacement due to uniformity issue

Simplify Calibration process for replacement