1. Overview

VIC Technology

Present Status

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

※ VIC : Video-wall Image Creation
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 algorism 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

Compensation Based on Standard Color Coordinate

Standard Color Coordinate

After VIC
2. What is VIC

Improvements

<table>
<thead>
<tr>
<th>01</th>
<th>Stains</th>
<th>02</th>
<th>Color Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Actual Picture</td>
<td></td>
<td></td>
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</tbody>
</table>

After VIC

<table>
<thead>
<tr>
<th>01</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>* Actual Picture</td>
</tr>
</tbody>
</table>

Results

Color Coordinate Spec. Improved
Data Sheet Spec. Updated

<table>
<thead>
<tr>
<th>Targeted Data</th>
<th>Before Compensation</th>
<th>After Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>± 30/1000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>± 20/1000</td>
<td></td>
<td>(33% improved)</td>
</tr>
</tbody>
</table>

* ∆5/1000 Color difference is noticeable to human eyes
3. VIC Improvements

Before VIC
3. VIC Improvements
3. VIC Improvements

- Actual Product Picture -

Before VIC

After VIC
4. VIC Advantages

Perfect Uniformity

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

Entire Calibration process is required for Replacement due to uniformity issue

VS

After VIC

Simplify Calibration process for replacement