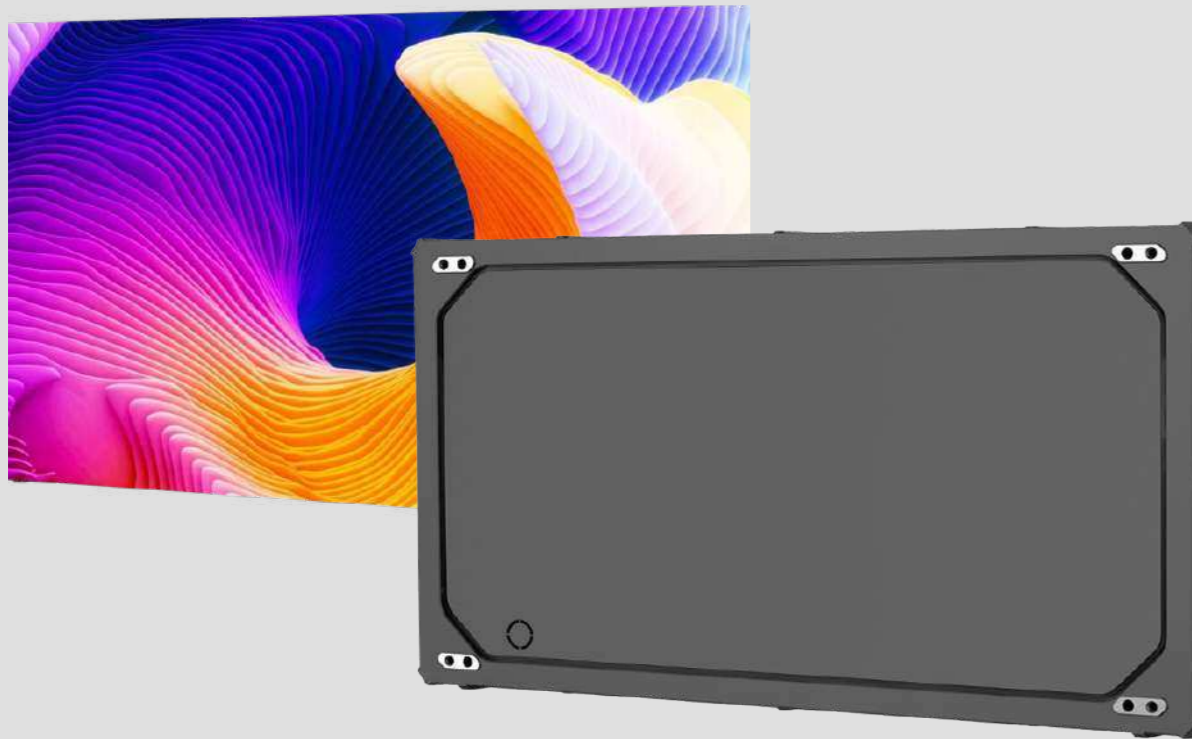


# Core **Micro LED**

## The difference in clarity shown by the real black screen

Experience deep Contrast and highly realistic real black screen .



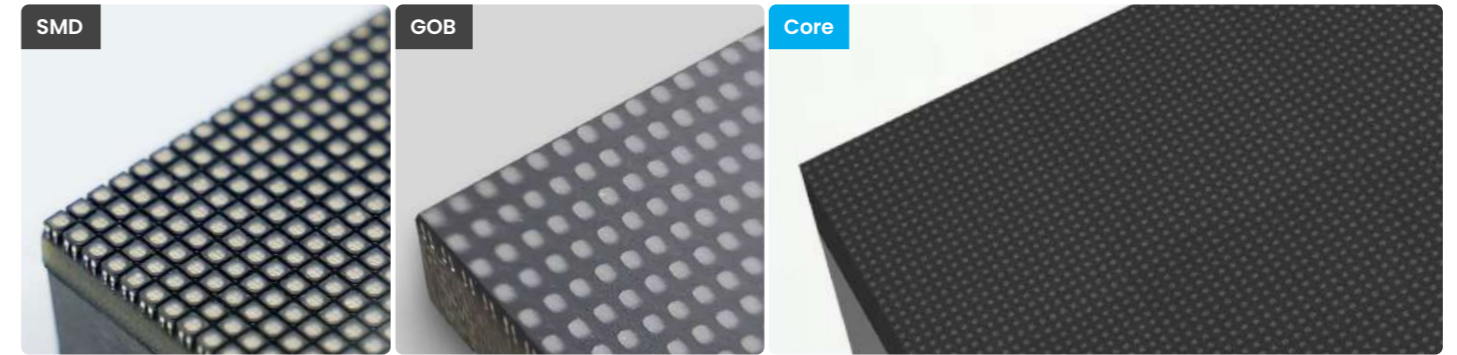
**Panel Size**  
600 x 337.5 mm

**#12,000:1 Contrast Ratio** **#22Color Bit** **#Dedicated Installation Bracket**  
**#Calibration**

**Pixel Pitch**  
p0.7 | p0.9 | P1.2 | P1.5 | P1.8

**Usage**  
#Convention #Control Room #VIPSpace #High Definition

## Overwhelming contrast ratio



### SMD

The most common method is to attach LEDs to the surface of the PCB .

### GOB

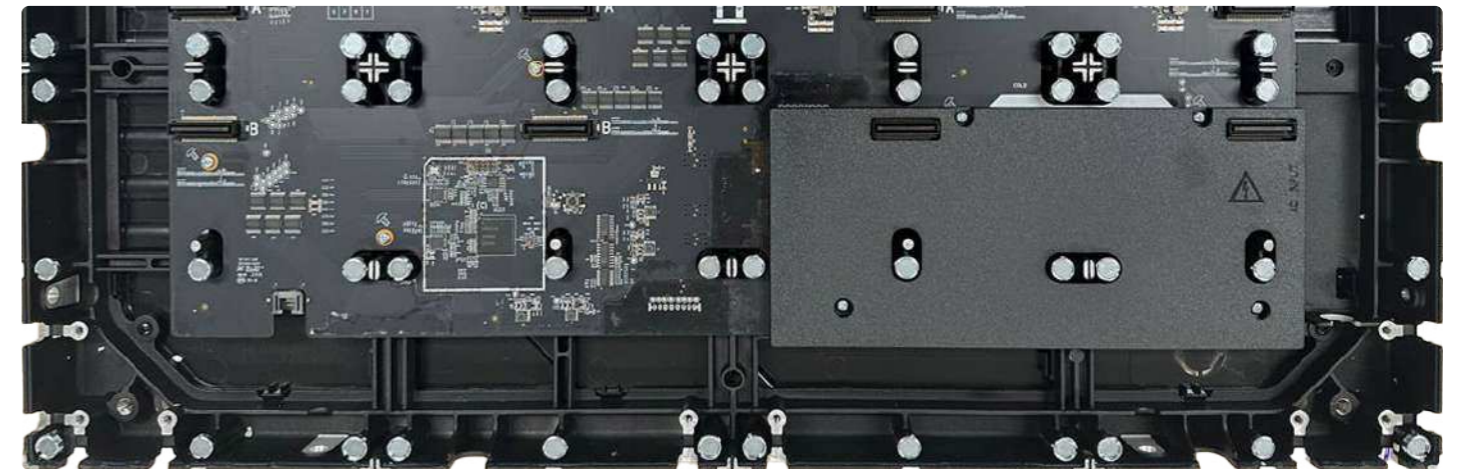
SMD module surface is coated with Glue .

### 5thGeneration CompleteMicro LED

Integrating as part of the PCB without attaching chips .  
- Perfect bonding that never delaminates  
- Screen that can be cleaned with alcohol without issues  
- Strong against light blocking 99.99% of UV.

## High-end die-casting

Core panel installation quality is excellent. High-level flatness creates a clean screen.



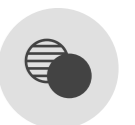
**High Brightness and Contrast Ratio**



**Dual Coating**



**99.99% UV blockage**



**Real Black Screen**



**Low Dead Pixel Rate**



**High Flatness**



**Ultra Low Power 370w/sqm**



**Ultra Low Power 370w/sqm  
28.5mm Thin Thickness**



### Solution to Defective Pixel Issues

## Physical,Natural Defective Pixel Minimized Occurrence

**General Product** **Core Micro LED**

DualCoat applied to Core prevents defective pixel occurrence. Physical and natural dead pixels rarely occur.

### Free from Dead Pixel Management

**General Product**

**What is a defective pixel ( dead pixel ) ?**

Refers to the part where the lamp fixed on the PCB falls off or has poor contact, causing the pixel to not light up .

# 12,000 : 1

## Unparalleled Contrast Shown by True Black

**General Product** **Core Micro LED**

The contrast ratio of general products is around 4,000~5,000:1, resulting in lower contrast and overall content quality degradation.

Core products achieve a contrast ratio of 12,000:1 and more than 1.5 times the brightness of general products, vividly displaying content.

### Displays a more lifelike and vibrant screen

**Why is black depth important?**

High black levels increase contrast ratio and provide a sense of realism . This enhances overall image quality , providing a clearer and more realistic visual experience, which plays a crucial role in increasing viewer immersion .

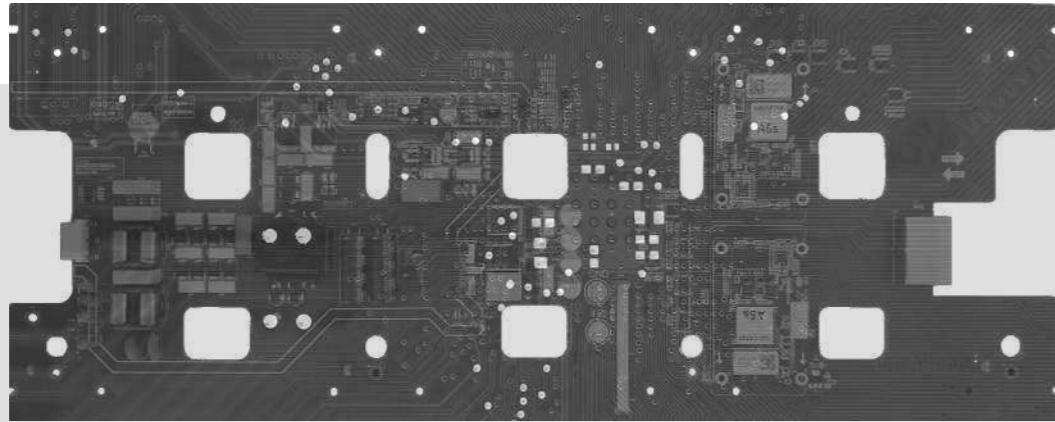


# SimpleBoard™

## Zero failure rate simple board



General Product

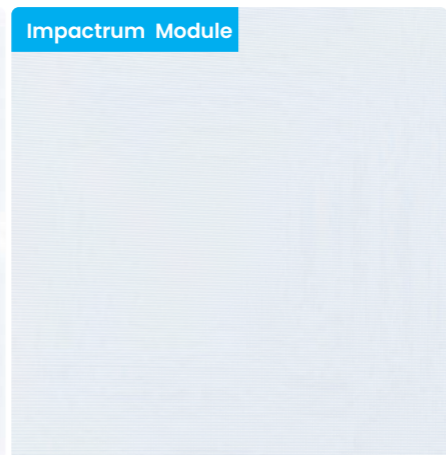
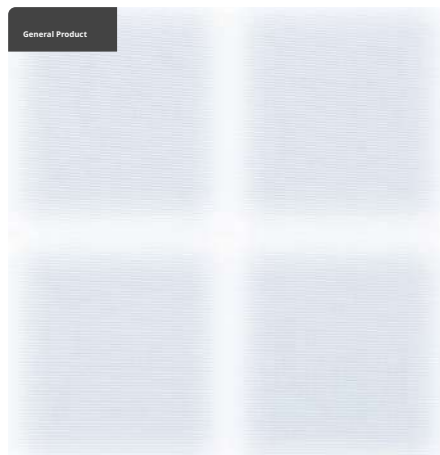


The Core's simple board is designed with the power supply, receiving card, and hub integrated into a single board. With no internal cables, the failure rate is very low, and the power efficiency is high, preventing overheating.

### A board that doesn't break down like a TV ?

The reason why TVs do not easily break down even after long periods of use is due to the simple structure where internal components are integrated into a single board. When multiple components are connected with wires, the failure rate is inevitably higher, and space efficiency is reduced. SimpleBoard has a very stable structure like a TV board, can be made thin, and supports low power consumption.

### Low power consumption is related not only to the environment but also to screen quality.

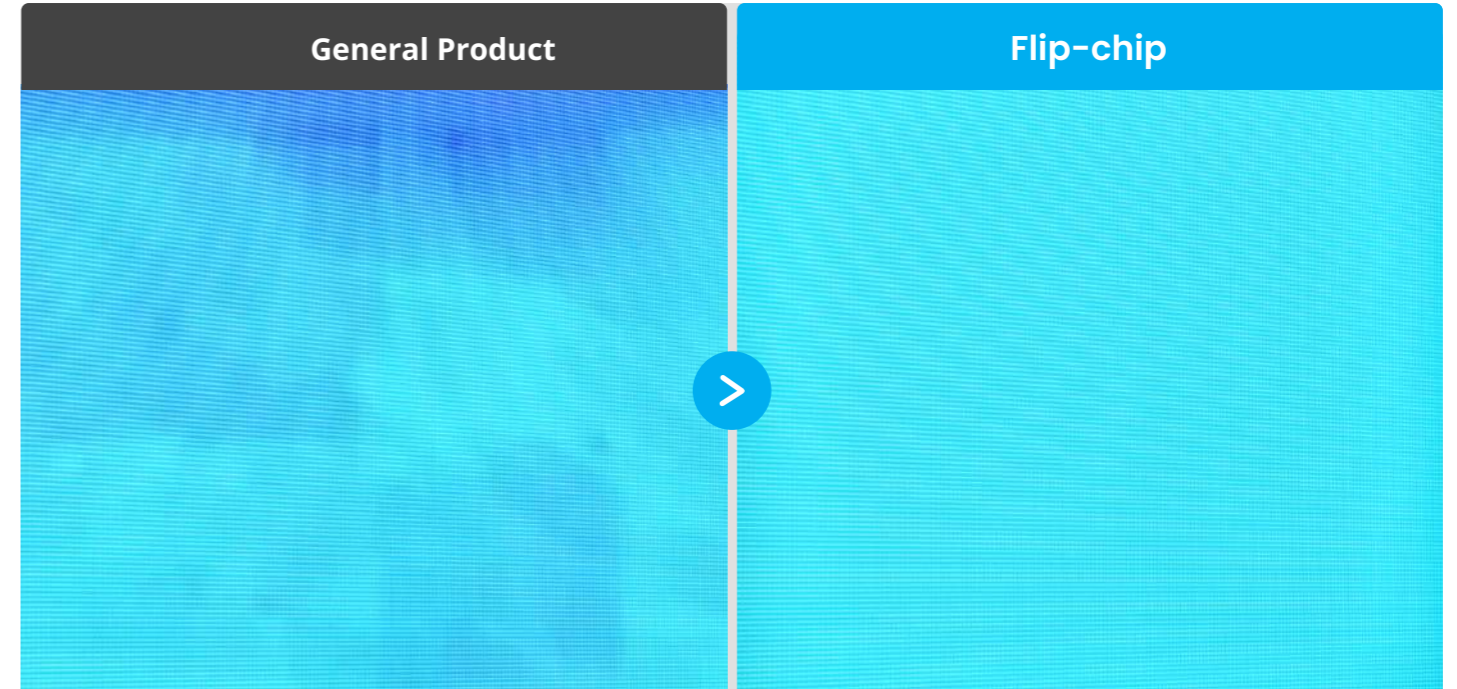


#### Ultra-low power 370w/m<sup>2</sup>

Efforts to reduce power consumption continue. By increasing power efficiency and reducing power consumption, heat generation is reduced, which helps to suppress issues like screen lifespan degradation and discoloration caused by heat. You can enjoy both advantages of low power consumption and the best quality.

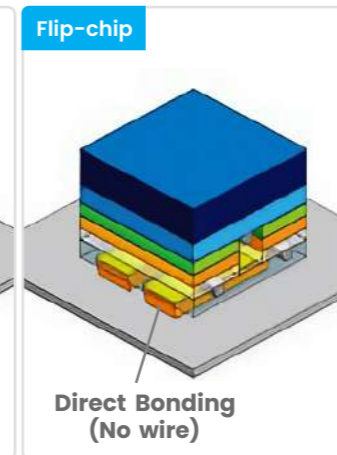
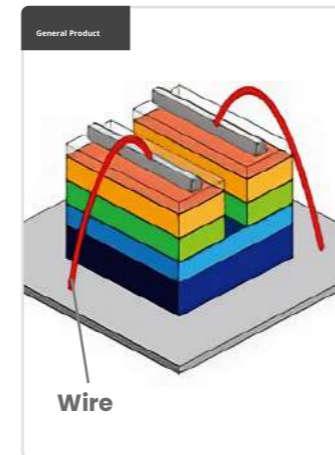
# Flip-chip

## High-quality Flip-chip with no discoloration over a long period



LED screens age over time and inevitably discolor. Core products use premium Flip-chips, which age extremely slowly and have minimal discoloration.

### Don't be fooled by fake flip-chip (Flip-chip)LEDs



#### Wire-free true Flip-chip (Flip-chip) LED

Each RGB diode receives electricity through a wire, but Flip-chip eliminates the wire by attaching the diode directly to the PCB. However, some Flip-chips still have some wires, and such LEDs do not fully showcase the advantages of Flip-chip. Impactrum's Flip-chip is a 100% No-wire product.

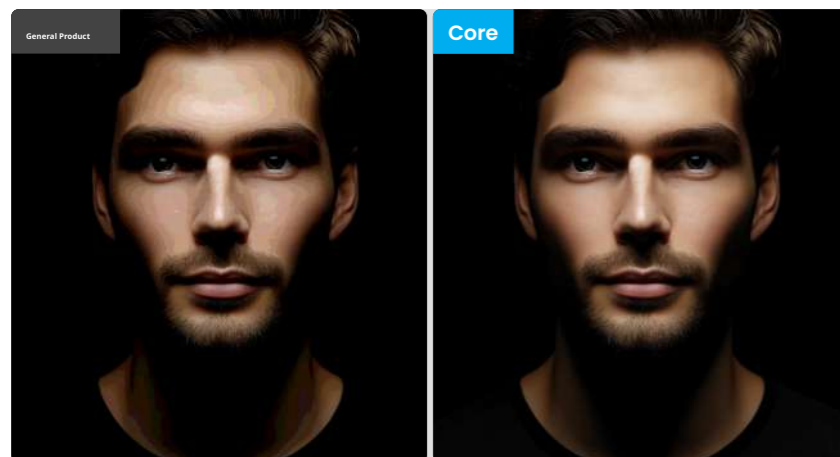
## 22 Color bit

More naturally , accurately expressing actual gradation



Core's 22 Color bit technology accurately recognizes brightness differences and precisely controls LED pixels , resulting in very smooth gradation. It helps you experience visually comfortable images.

### The quality of the content completely changes



#### All products of Impactrum22 Color bit

If there is no problem with the gradation of the content itself , the screen must accurately represent it . However, most products use 8~16 colorbit , which causes issues with gradation . Impactrum applies 22 color bit to all products to maximize video quality .



Hancock Library West, Australia  
Core p1.2

### Core **Micro LED** specification

Product	Core p0.7	Core p0.9	Core p1.2	Core p1.5	Core p1.8
Pixel Pitch	0.78125 mm	0.9375 mm	1.25 mm	1.5625 mm	1.875 mm
Brightness	600 nit	600 nit	600 nit	600 nit	600 nit
Module Size	150 x 168.75 mm	150 x 168.75 mm	150 x 168.75 mm	150 x 168.75 mm	150 x 168.75 mm
Panel Size	600 x 337.5 mm	600 x 337.5 mm	600 x 337.5 mm	600 x 337.5 mm	600 x 337.5 mm
Panel Resolution	768 x 432 px	640 x 360 px	480 x 270 px	384 x 216 px	320 x 180 px
Refresh Rate	3,840 Hz ( Option: 7,680 Hz)	3,840 Hz ( Option: 7,680 Hz)	3,840 Hz ( Option: 7,680 Hz)	3,840 Hz ( Option: 7,680 Hz)	3,840 Hz ( Option: 7,680 Hz)
Viewing Angle	178° (H, V)	178° (H, V)	178° (H, V)	178° (H, V)	178° (H, V)
Weight	23 kg/sqm	23 kg/sqm	23 kg/sqm	23 kg/sqm	23 kg/sqm
Maintenance	Front	Front	Front	Front	Front
Power Consumption	Max. 370 Avg. 124 w/sqm	Max. 370 Avg. 124 w/sqm	Max. 370 Avg. 124 w/sqm	Max. 370 Avg. 124 w/sqm	Max. 370 Avg. 124 w/sqm
Input Voltage	AC100~240V 50/60Hz	AC100~240V 50/60Hz	AC100~240V 50/60Hz	AC100~240V 50/60Hz	AC100~240V 50/60Hz
Life Span	100,000 hours	100,000 hours	100,000 hours	100,000 hours	100,000 hours