C3200

Scientific Grade Calibration System

V1.0.3

Specifications

Change History

Document Version	Release Date	Description
V1.0.3	2025-06-05	Updated the camera resolution and Dimensions.
V1.0.2	2021-06-01	Updated the camera description.
V1.0.1	2021-02-01	Updated the product's power supply information.
V1.0.0	2020-09-15	First release

Introduction

The C3200 is a high-end calibration system specifically designed by NovaStar for MiniLED screens. It can fix the non-uniformity problems of COB and IMD efficiently, reliably and perfectly, allowing for a smoother LED display after calibration. This new generation of calibration system provides a complete solution from hardware acceleration to software upgrade.

Features

- Highly efficient

  32 Megapixels and 1.7 fps high-speed collection to have a 4K screen calibrated in 40 minutes.

- Excellent effect

  Increased accuracy to let white image as smooth as glass and blue image without mottling after calibration.

  Optimized curved surface correction algorithm to allow for free splicing after calibration.

- Match MiniLED process

  Support for mixed-light elimination technology, suitable for calibration of finer-pitch screens to perfectly fix the difficult problem of calibrating COB color blocks of MiniLED screens.

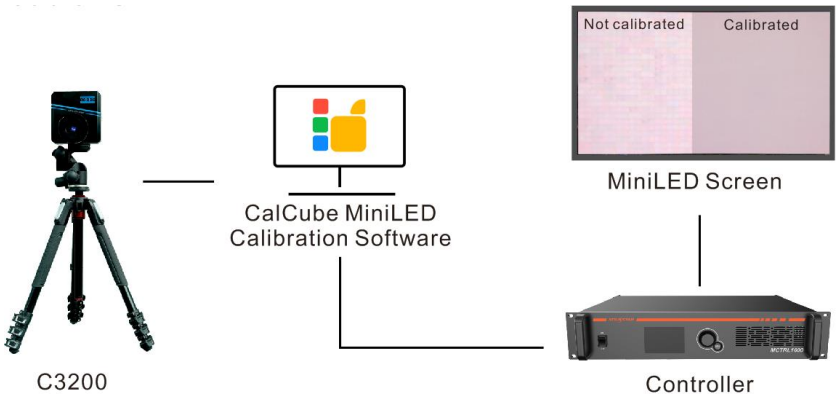
- Extraordinary protection

  IP6X dust tight, defying environmental challenges.

System Components

Hardware	Description
	C3200-35mm scientific grade calibration camera Note: Only a specific lens is supported. The lens cannot be removed and replaced.
Software	**Description**
	CalCube MiniLED software

Applications



Main use: Pixel-level high-accuracy brightness and chroma measurement and calibration of MiniLED screens, microLED screens, etc.

Camera Parameters

Parameter	C3200
Total Pixels (Megapixel)	32
Sensor Resolution	6464×4852
Computer Connectivity	Gigabit Ethernet
Maximum Frame Rate	1.7 fps
Measurement Accuracy*	Luminance (Y) ±3% Chromaticity coordinates (x, y) ±0.003
Short Term Repeatability*	Luminance (Y) ±0.15% Chromaticity coordinates (x, y) ±0.0006
Lens Type	Nikon F bayonet; 35 mm
IP Rating	IP6X (Camera body)

Note:

* The data is measured based on Illuminant A and at constant temperature.

Specifications

Power Adapter Specifications	Input voltage	100-240 Vac 50/60 Hz
	Output voltage	12 Vdc, 3.0 A
Operating Environment	Temperature	0°C to 30°C
	Humidity	20% to 70%, non-condensing
Transportation and Storage Environment	Temperature	–20°C to +70°C
Physical Specifications	Dimensions	156 mm × 147 mm × 128 mm
	Net weight	2.8 kg

Packing Information	Outer box dimensions	765 mm × 715 mm × 300 mm, kraft paper box
	Accessories	1x Camera carrying case, 1x Tripod, 1x Tripod bag, 1x Tripod head, 1x Power adapter, 1x Ethernet cable, 1x USB drive, 1x Dongle
Warranty Period	3 years	

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