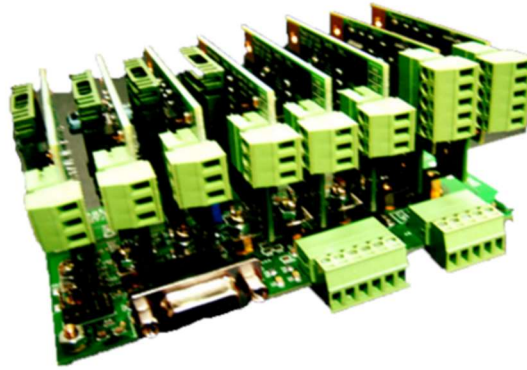


Smart LED Controller for AOI application



Features:

■ Stable illumination

Special current control circuit leads to extra low current ripple (0.01% FS) for stable illumination even under low brightness.

■ Small size, drive up to 8 channels

Modularized design with independent mother control board and daughter driver boards leads to extremely small size and flexible application. 3 versions of daughter driver boards can be plugged onto the 8 channels of mother control board to satisfy various specifications (5V/12V/24V) of LED.

■ Various Communication Interfaces

3 types of communication interfaces including DIO, RS232, and RS422 are supported.

■ Brightness Adjustment Software

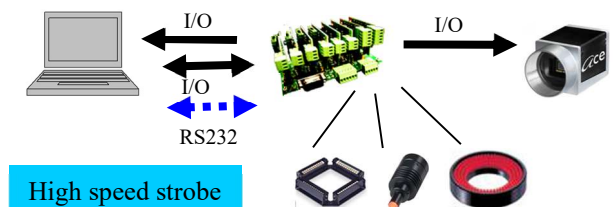
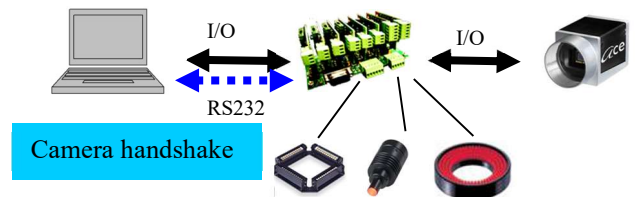
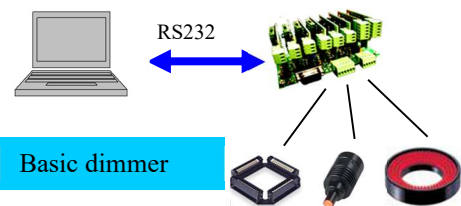
Brightness adjustment software is provided for free, which implements an user-friendly panel with activeX VR knob.

■ Reduction the burden of Console (Camera handshake version)

This version realizes direct handshake between camera and SmartLED controller with digital I/O's. As a result, the successive brightness variation and image capture can be achieved without console intervention. Thus considerably reduces the communication burden of the console.

■ Cost Saving (High-speed Strobe version)

8 sets of brightness combination commands are triggered by 4 digital input so that the brightness of 8 channels can be altered simultaneously at high speed. Such a register-based architecture not only eliminates the expensive DA controller but also reduce the cost of wiring.





Electrical specifications

Mother Board. (SmartLED-MB2.0-Vx)				
Control supply voltage	8~24			V
RS232 interface baud rate	V1 38400	V2/V3 57600		Echo ON. N-8-1
RS422 interface baud rate	38400	57600		Echo OFF. N-8-1
Brightness Resolution	14	8		bits
Digital input high voltage*		>3.5		V
Digital input low voltage*		<0.8		V
Digital output sink current**		20		mA
Operation condition	0~70 °C		20~90% Humidity	
Daughter board SmartLED-	1224	2416	0005	
Supply voltage Vcc	8~32	8~32	5+/-10%	V
Maximal output current	680	1600	700	mA

Order Information

Mother Board : SmartLED- MB2.0- VX

- 1: Basic dimmer
 - 2: Camera handshake
 - 3: High speed strobe
-

Daughter Board : SmartLED - XXXX

- 1224: 12/24 V, 650 mA
 - 2416: 12/24 V, 1600 mA
 - 0005: 5V, 700 mA
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