



# **Corona II LED Line Lighting System**

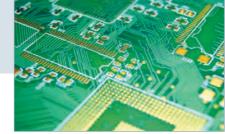


Top light and dark field illumination









CORONA II LED lighting modules feature powerful brightness up to 3,500,000 lux and deliver outstanding homogeneity via a patented reflector design that perfectly shapes light, eliminating chromatic aberrations for unprecedented performance and best in class inspection results.

**Features Top Light/Dark Field** Illumination

- Brightness up to 3,500,000 lux
- Patented reflector focusing technology
- No color abrrations
- Higher efficiency
- Various LED colors
- Standard: White, red, green, blue
- ▶ IR (850 nm or 940 nm)
- UV (395 nm on request)
- D50 (standard daylight)
- > Eight lengths up to 1360 mm per single module
- Three passive cooling options
- Fan or water cooling available
- Stackable modules
- Various screens
- Different diffuse screens
- Polarizing screen
- High quality LED binning
- Advanced thermal management and temperature control
- Housing design for easy mounting and integration

## **LED Control Unit - XLC4**

- External LED controller for flexibility and improved thermal management
- Four channels up to 1.8 amps per channel
- RS232, USB, Ethernet and RS485 from PC to the controller
- Analog or PWM input for external control
- Temperature stabilization
- +/- 1 Kelvin water cooling option
- +/- 2 Kelvin fan based cooling
- Automatic detection of Corona II modules with automatic current limitation
- Temperature monitoring in the controller and the Corona II modules

### **Customized solutions**

Besides standard components Chromasens offers full custom solutions for lighting, camera and scanner solutions.

- Based on standard Corona II and XLC4 technology
- Special housing for the controller available
- Special filters or screenings for the LED module available
- Full custom designs

**Specifications:** 

Electronics

CORONA II	
Illuminance (white)	Up to 3,500,000 lux @ 60 mm focus (Type A) Min. 1,500,000 lux @ 95 mm focus (Type B) Min. 800,000 lux @ 190 mm focus (Type C) Min. 300,000 lux @ parallel focus (Type D)
Available module length	60 mm (Type A); 95 mm (Type B), 190 mm (Type C); parallel (Type D)
Focal length	60 mm; 95 mm, 190 mm; parallel
LED colors	White (5500 Kelvin or 3500 Kelvin); Red (632 nm); Green (520 nm); Blue (452 nm); IR (850 nm and 940 nm); D50; UV (395 nm on request)
Ports	One LED channel per 170 mm segment I <sup>2</sup> C port for temperature control and identification
Cable length	Standard length 2.5 m or 5 m Up to 15 m or drag chain cable on request
Protection class	IP 54
Operating temperature	0°C to + 70°C (housing temperature)
Certifications	CE, FCC complient, RoHS
LED CONTROL UNIT - XLC4	
Input voltage	24 Volt DC +/- 10 %; approx. 3.5 amps per used channel for full operation
Output	4 current controlled outputs, from 0.2 amps to 1.8 amps Output power 80 watt per channel and max. output voltage up to 47 volts
Controlling	RS232; RS485, USB, Ethernet Analog input 1-10 Volt and PWM interface
Protection class	IP 40
Operating temperature	0°C to + 50°C (housing temperature)

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TOP LIGHT DARK FIELD

THE CHROMASENS

**CORONA II FAMILY:** 

Three lighting concepts:













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Wood