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 better inspection results.

APPLICATIONS
• Print inspection
• Surface inspection
• Document scanning
• Food inspection
• Steel inspection
• Semiconductor industry
• Measurement and quality control
• Web inspection
• General machine vision
• Sorting processes

Corona II — LED Line Lighting System
D Top light and dark field illumination

PRECISION IN LIGHTING

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 better inspection results.

FEATURES
Top Light/Dark Field Illumination
• Brightness up to 3,500,000 lux
• Patented reflector focusing technology
  ➢ No color aberration
  ➢ Higher efficiency
• Various LED colors
  ➢ Standard: White, red, green, blue
  ➢ IR (850 or 940 nm)
  ➢ UV (395 nm)
  ➢ 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 CONTROLLER
• 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

THE CHROMASENS CORONA II FAMILY: THREE LIGHTING CONCEPTS
D TOP LIGHT
B BRIGHT FIELD
T TUBE LIGHTING
DARK FIELD BACK LIGHTING
Corona II LED Line Lighting

TOP LIGHT AND DARK FIELD ILLUMINATION

**CORONA II**

<table>
<thead>
<tr>
<th>Illuminance (white)</th>
<th>Up to 3.500.000 lux @ 60 mm focus (type A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min. 1.500.000 lux @ 95 mm focus (type B)</td>
</tr>
<tr>
<td></td>
<td>Min. 800.000 lux @ 190 mm focus (type C)</td>
</tr>
<tr>
<td></td>
<td>Min. 300.000 lux @ parallel focus (type D)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Available module length</th>
<th>170 mm to 1360 mm in steps of 170 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Focal length</td>
<td>60 mm; 95 mm, 190 mm; parallel;</td>
</tr>
<tr>
<td>LED colors</td>
<td>Cool-White (5500 Kelvin); Warm-White (3500 Kelvin); Red (632 nm); Green (520 nm); Blue (452 nm); IR (850 nm and 940 nm); UV (395 nm)</td>
</tr>
<tr>
<td>Ports</td>
<td>One LED channel per 170 mm segment</td>
</tr>
<tr>
<td>Cable length</td>
<td>Standard length 2.5 m or 5 m</td>
</tr>
<tr>
<td></td>
<td>Up to 15 m or drag chain cable on request</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 54</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to + 70°C (housing temperature)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC compliant, RoHS</td>
</tr>
</tbody>
</table>

**CONTROLLER XLC4**

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>24 Volt DC +/- 10 %; approx. 3.5 amps per used channel for full operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>4 current controlled outputs, from 0.2 amps to 1.8 amps</td>
</tr>
<tr>
<td></td>
<td>Output power 80 watt per channel and max. output voltage up to 47 volts</td>
</tr>
<tr>
<td>Controlling</td>
<td>RS232; RS485, USB, Ethernet Analog input 1-10 Volt and PWM interface</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 40</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>0°C to + 50°C (housing temperature)</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, FCC compliant, RoHS</td>
</tr>
</tbody>
</table>

**DIMENSIONS (in mm)**

- **Dimensions are shown with 510 mm version**