



CAD/CAM SYSTEMS | INSTRUMENTS | HYGIENE SYSTEMS | TREATMENT CENTERS | IMAGING SYSTEMS

PERFECT VISION. WITH NATURAL LED LIGHT

The first LED to show its true colors.

The specially developed Sirona LED for instruments has significantly improved treatment conditions for dental practitioners. This new LED lamp combines high brightness, true-to-life color reproduction and even illumination to provide ideal lighting for treatment in the oral cavity – optimal conditions for identifying tooth substance, filling material and soft tissue. Another advantage: The LED lamp can be quickly and easily replaced by the dentist or installed in existing Sirona instruments. Users also benefit from the LED's very long service life.

Advantages of Sirona LEDs:

- Hard tooth substance, filling material and soft tissue is identifiable with good contrast
- The illuminated area appears evenly bright, glare-free and has no false-color effects (color fidelity)
- The LEDs are compatible and able to replace the halogen lamp
- The brightness (kLux) is at least equal to that of the current halogen lamp
- The service life is several times greater than that of the halogen lamp



The natural light of the Sirona LED realistically reproduces colors and contrasts in the oral cavity.

Visual perception depends on color reproduction

Sirona



Large light spot, color rendering index (CRI) very high. Natural coloration of the teeth and gums. No edge coloration in the light spot.

Competitor A



Large light spot, color rendering index (CRI) reduced. Blue and yellow edge coloration of the light spot. False colors on teeth and gums, gums appear magenta and teeth yellow/green.

Competitor B



Small light spot, color rendering index (CRI) greatly reduced. Slight yellow/green coloration of the light spot causes false colors on teeth and gums.

Halogen lamp



Sirona halogen lamp
Large light spot, color rendering index (CRI) approx. 100. Red component is dominant; coloration of the teeth and gums influenced by high red component.

LED: From a preparation perspective

Sirona



Bright preparation area, clear contrast

Competitor A



Slight glare, false color on light cone

Competitor B



Strong glare, reduced contrast

Halogen lamp



Light with high red component, contrasts blurred

LED compatibility with Sirona dental units

| Dental unit | Instrument | | | | | | | Brightness setting on the dental unit |
|-------------------------|------------|--------|------|----|--------|---------|--------------------------|---------------------------------------|
| | Motors | | | | | Turbine | SIROSON L SIROSONIC L | |
| | SL | SL ISO | EL 1 | BL | BL ISO | | | |
| M1-90, M1-94 | | | | | | | | 100% |
| M1-96 | | | | | | | | 100% |
| Siemens Sirona E | | | | | | | | Standard (90%) |
| C2, C3, C4 | | | | | | | | 100% |
| M1+, C2+, C3+, C4+, C5+ | | | | | | | | 100% |
| C6, C8, C8+, Pro Feel | | | | | | | | Standard (90%) |
| TENEO | | | | | | | | 100% |

The voltage setting in the units is preset to 3.6V by default. Normally all there is to do is to set the brightness to 100%.

Sirona products with LED

| Name | REF |
|------------------------------|-----------|
| Sirona LED | 63 14 558 |
| Quick coupling R | 63 19 706 |
| Motor hose SL D+ C2/C4 | 63 19 607 |
| Motor hose SL D+ 1660 mm | 63 19 615 |
| Motor hose SL D+ C3/C6 | 63 19 623 |
| Motor hose SL D+ C8 | 63 19 631 |
| Motor hose SL D+ C8+/Profeel | 63 19 649 |
| SIROSONIC L hose C2/C4 | 63 19 664 |
| SIROSONIC L hose C3+/C6 | 63 19 672 |
| SIROSONIC L hose C8+/Profeel | 63 19 680 |
| SIROSONIC L hose 1660 mm | 63 19 698 |
| Motor BL | 63 19 714 |
| Motor BL ISO | 63 19 722 |