

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.

# Subject to technical changes and errors in the text, Order No. A91100-M45-B367-01-7600, Printed in Germany, Dispo No. 04603, JP10-227, WS 12101.V1

# Visual perception depends on color reproduction

### Sirona LED



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



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

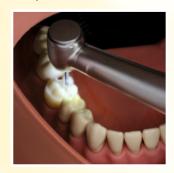
# LED: From a preparation perspective

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

