DENSIM

DENTAL INSTRUMENTS

DENSIM Dental Instruments

DENSIM products provide excellent performance and precision for perfect results for your work. We are especially focused on the high quality of our products. Enjoy long lifetime and comfortable operation with DENSIM instruments!

Push-button system
Comfortable and safe push-button system for easy bur changing.

Ceramic bearings
Original DENSIM ceramic bearings significantly increase operational life and reduce noise levels and vibrations.

Illumination
Monolithic glass rod light conductor delivers ideal and consistent illumination for the whole working area.

Hygiene
All handpieces can be surface-disinfected with major chemical disinfecting agents (disinfecting spray or disinfecting wipes).

Premium spindle mechanism
The extra-long life of the spindle chuck mechanism made of wolfram carbide delivers excellent bur concentricity.

Removable head
Each DENSIM blue and green contra angle handpiece is equipped with a removable head. This system allows only the head on the handpiece to be replaced, once there is a need to exchange the head for a new one.

Excellent performance, extremely low noise levels and perfect illumination

The ergonomic shape of the instrument and its simple, efficient design meet the requirements of dentists. Thanks to the premium spindle chuck mechanism made of wolfram carbide, the life of the product is significantly increased. The practical push-button system allows the quick and safe replacement of the bur.

Expect excellent performance with DENSIM Dental Instruments

Precision and Power

Exceptional ergonomics, excellent parameters. Superior design, simple handling and reliability are characteristic features of DENSIM handpieces. Their comfortable shape allows users to handle each instrument easily and with precision.

An internal cooling system is used in all DENSIM handpieces. Cooling water and air are supplied through two independent ways. The practical spindle chuck mechanism allows for the quick replacement of the bur. The smooth coating ensures ideal hygiene during the dentist's operation and the cleaning process. The removable head on the blue and green contra angle handpieces is a practical system which reduces the cost of maintenance.

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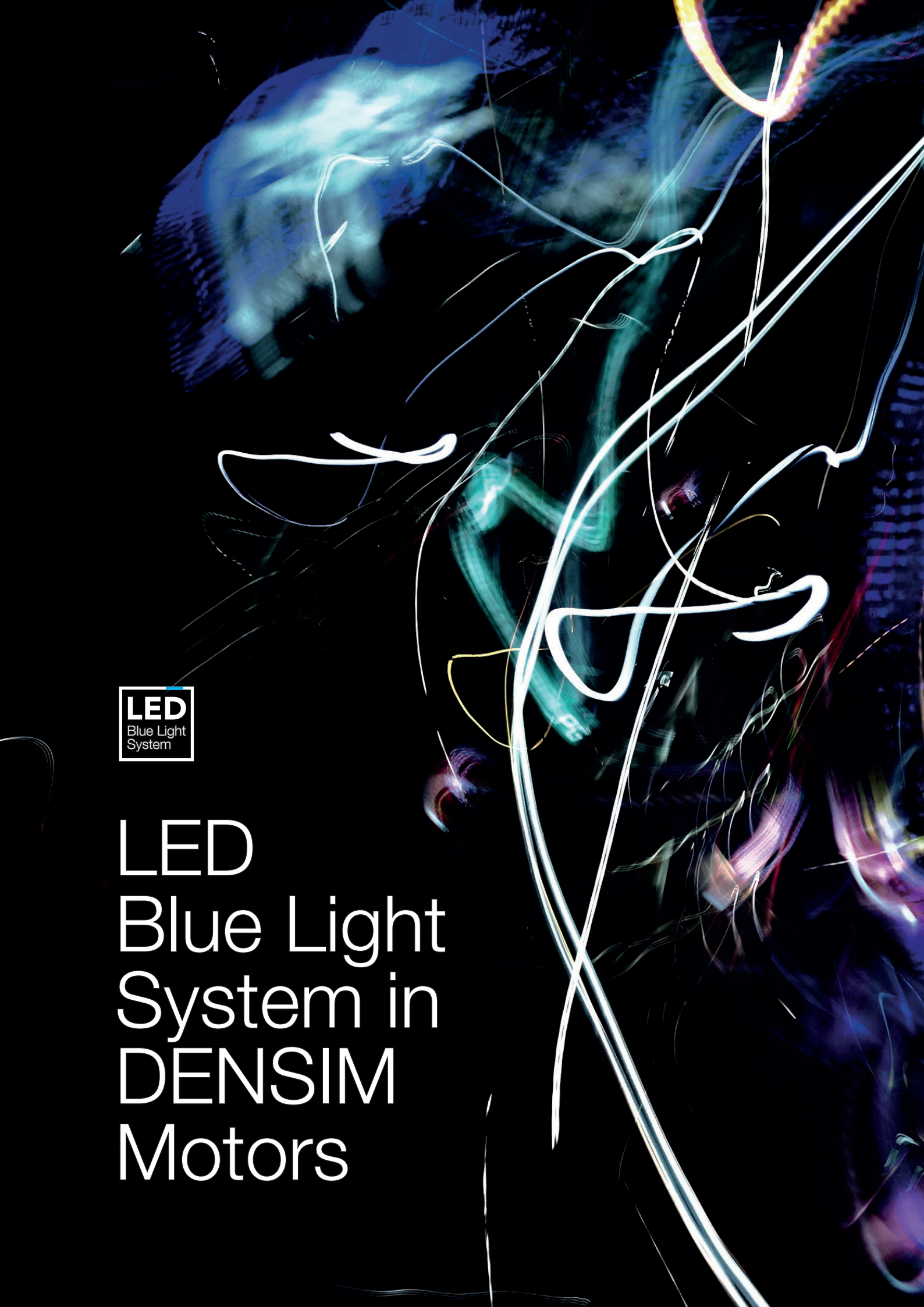


LED Blue Light System in DENSIM Motors

LED Blue Light system
counts with a unique system that is able to enhance any material with a different fluorescence than the tooth structure, ensuring greater precision in the removal of restorative materials and reducing the occurrence of unnecessary damage to the healthy dental structure.

LED Ultra Vision illumination system
Facilitates the visualisation of the limits of the cavity preparations, promoting the greater accuracy of the finishing and the correction of irregularities. Improved visualisation during coronary opening and the location of root canals.

Discover how lightweight, perfectly balanced and smooth power control are delivered. DENSIM Brushless Motors are designed for enhanced durability and offers an extended working life.

DX / DX BLUE brushless micromotor can be used in all general dentistry procedures.

DX PRO / DX PRO BLUE brushless endodontic micromotor is additionally featured with endodontic functions like auto-revers and auto-forward supported by new Diplomat dental unit electronics.

DX SRG surgical brushless micromotor is specially dedicated for surgical and implantology treatments in combination with the peristaltic pump installed on selected Diplomat dental units.

DX BLUE and **DX PRO BLUE** brushless micromotors are specially equipped with the LED Blue Light system that is able to enhance any material with different fluorescence than the tooth structure, ensuring greater precision in the removal of restorative materials and reducing the occurrence of unnecessary damage to the healthy dental structure.

DENSIM
DX PRO

Turbines

Efficiency of work
Four-hole spray system, low vibrations and minimum noise levels help to improve the comfort and work efficiency of the dentist.

DENSIM QUICK LED
The DENSIM QUICK coupling is distinguished by its reliability and ease of use. The rotary coupling allows the practitioner to work freely and effortlessly. Providing a secure quick connect coupling and a simple disconnection mechanism, it can be both quickly connected and disconnected.

Reference number: DSQC6016K

VIENNA	MONACO LUX
Max. speed (at 2,8 bar) 320 000 rpm	Max. speed (at 2,8 bar) 320 000 rpm
Recommended air pressure 2,1 – 2,8 bar	Recommended air pressure 2,1 – 2,8 bar
Bearings ceramic	Bearings ceramic
Illumination without light	Illumination LED
Power 19 Watt	Power 19 Watt
Head type standard	Head type standard
Coating chrome	Coating chrome
Spray system 4-hole	Spray system 4-hole
Reference number DSHE17	Reference number (with quick connector) DSHE21KLSET
	Reference number (without quick connector) DSHE21KL

MONACO S LUX	MONTREAL LUX	MONTREAL S LUX
Max. speed (at 2,8 bar) 400 000 rpm	Max. speed (at 2,8 bar) 350 000 rpm	Max. speed (at 2,8 bar) 420 000 rpm
Recommended air pressure 2,1 – 2,8 bar	Recommended air pressure 2,1 – 2,8 bar	Recommended air pressure 2,1 – 2,8 bar
Bearings ceramic	Bearings ceramic	Bearings ceramic
Illumination LED	Illumination LED	Illumination LED
Power 17 Watt	Power 22 Watt	Power 18 Watt
Head type small	Head type standard	Head type small
Coating chrome	Coating titanium	Coating titanium
Spray system 3-hole	Spray system 4-hole	Spray system 3-hole
Reference number (with quick connector) DSHE22KLSET	Reference number (with quick connector) DSHP21KLSET	Reference number (with quick connector) DSHP22KLSET
Reference number (without quick connector) DSHE22KL	Reference number (without quick connector) DSHP21KL	Reference number (without quick connector) DSHP22KL

Handpieces

DUBLIN U 1:1	**DUBLIN U 1:1 LUX**	**DUBLIN U 2,7:1 LUX**
Max. speed 40 000 rpm	Max. speed 40 000 rpm	Max. speed 14 815 rpm
Transmission 1:1	Transmission 1:1	Transmission 2,7:1
Type contra-angle handpiece without light	Type contra-angle handpiece with light	Type contra-angle handpiece with light
Compatibility ISO 3964	Compatibility ISO 3964	Compatibility ISO 3964
Cooling internal	Cooling internal	Cooling internal
Burs RA ø 2,35 mm type	Burs RA ø 2,35 mm type	Burs RA ø 2,35 mm type
Coating chrome	Coating chrome	Coating chrome
Reference number DSLE11SET	Reference number DSLE11LSET	Reference number DSLE27LSET

DUBLIN U 5,4:1 LUX	DUBLIN U 7,4:1 LUX	DUBLIN U 14,8:1 LUX
Max. speed 7 407 rpm	Max. speed 5 405 rpm	Max. speed 2 703 rpm
Transmission 5,4:1	Transmission 7,4:1	Transmission 14,8:1
Type contra-angle handpiece with light	Type contra-angle handpiece with light	Type contra-angle handpiece with light
Compatibility ISO 3964	Compatibility ISO 3964	Compatibility ISO 3964
Cooling internal	Cooling internal	Cooling internal
Burs RA ø 2,35 mm type	Burs RA ø 2,35 mm type	Burs RA ø 2,35 mm type
Coating chrome	Coating chrome	Coating chrome
Reference number DSLE54LSET	Reference number DSLE74LSET	Reference number DSLE148LSET

Handpieces

DUBLIN P 1:1	**PARIS U 1:1 LUX**	**PARIS P 1:1**
Max. speed 40 000 rpm	Max. speed 40 000 rpm	Max. speed 40 000 rpm
Transmission 1:1	Transmission 1:1	Transmission 1:1
Type straight handpiece without light	Type contra-angle handpiece with light	Type straight handpiece with light
Compatibility ISO 3964	Compatibility ISO 3964	Compatibility ISO 3964
Cooling internal	Cooling internal	Cooling internal
Burs HP ø 2,35 mm type	Burs RA ø 2,35 mm type	Burs HP ø 2,35 mm type
Coating chrome	Coating titatium	Coating titatium
Reference number DSLE01	Reference number DSLP11LSET	Reference number DSLP01L

Motors

	DX / DX BLUE	DX PRO/ DX PRO BLUE	DX SRG	WELLINGTON
Applications	Restorative, Prophylaxis	Restorative, Prophylaxis, Endodontics	Impantology, Surgery	Restorative, Prophylaxis
Motor type	brushless	brushless	brushless	air motor
Speed range	1000-40 000 rpm	80-40 000 rpm	80-40 000 rpm	5000-20 000 rpm at 2,8 bar
Torque	3,5 Ncm	3,5 Ncm	5 Ncm	N/A
Torque control	no	yes	yes	no
Max power	60 W	60 W	80 W	N/A
Anti retraction valve function	yes	yes	no	N/A
Illumination	LED	LED	LED	no
LED BLUE Light system	DX BLUE	DX PRO BLUE	no	no
Weight	81 g	81 g	104 g	83g
Dimensions	ø 21,8 x 44,7 mm	ø 21,8 x 44,7 mm	ø 21,8 x 56,7 mm	ø 20 x 52 mm
Hose rotation	yes	yes	yes	midwest type
Sterilisable	yes	yes	yes	no
Handpiece holder ISO 3964	yes	yes	yes	yes
Handpiece holder INTRAmatic Lux®	yes	yes	N/A	N/A
Warranty	3 years	3 years	3 years	1 year
Reference number	DSDX101/ DSDX101B	DSDX201/ DSDX201B	DSDX301	DSAM1004

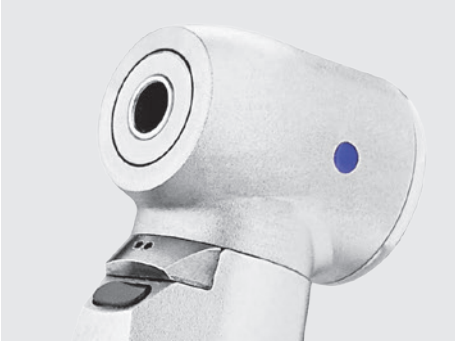
MONTREAL S LUX
The MONTREAL S LUX mini head turbine is ideal when preparation conditions are restricted principally in the molar region or when treating patients with smaller mouths. The miniature head offers optimised visibility and hence the right conditions for unhindered work even when space is restricted.

DENSIM QUICK T LED
The DENSIM QUICK coupling is distinguished by its reliability and ease of use. The rotary coupling allows the practitioner to work freely and effortlessly. Providing a secure quick connect coupling and a simple disconnection mechanism, it can be both quickly connected and disconnected.

Reference number: DSQC6116K

DUBLIN HEAD
The DUBLIN HEAD exchangeable head with push-button spindle of the bur. The head is autoclavable up to 135°C and is compatible with DUBLIN contra-angle handpieces.

Reference number:
DSLCH11 (blue, transmisson 1:1)
DSLCH21 (green, transmission 2:1)

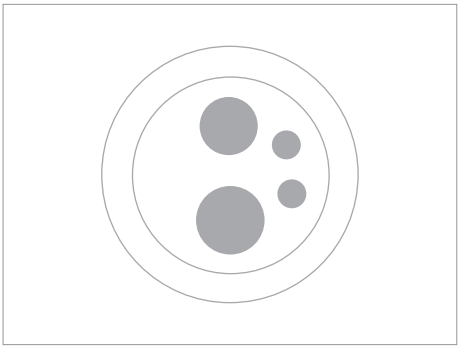


REMOVABLE HEAD
Each DENSIM blue and green contra angle handpiece is equipped with a removable head. This system allows users to replace only the head on the handpiece, once there is a need to exchange the head for a new one.

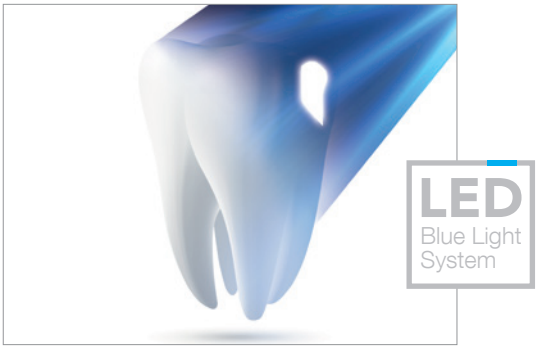
PARIS HEAD
The exchangeable PARIS U 1:1 head with a titanium coating is highly durable and resistant to mechanical influences. All heads are equipped with the comfortable pushbutton system.

Reference number: DSLPH11

MONACO S LUX
This model with a small head is suitable for easy work in the molar area and for working with children.



4-hole connection
DENSIM turbines can be connected to the standard 4-hole hoses of Midwest type.



LED Blue Light System
Improved visualisation and traceability of existing composite fillings.

Customer Service

Do you have questions about our products or services? Get advice, answers and information on our complete product portfolio and available services in your area. Our team is ready to assist you and provide you with best-in-class service for all your support needs.

Diplomat Dental carefully selected partners around the world provide excellent customer support and services for DENSIM dental instruments. You can rely on these trained, professional, technically experienced teams, who simply enjoy customer care!

Premium Service Oil

The basic principal for the proper care and maintenance of DENSIM dental instruments is to preserve not only the life time of the instruments, but their correct function as well. The implementation of appropriate cleaning, sterilisation and lubrication techniques for each handpiece and components are essential.

DENSIM | PARIS U

www.densim.com

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DENTAL INSTRUMENTS

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