CURING LAMP

TECHNICAL DATA

	MOON evolution
Reference:	REF 502.00
Classification:	Class-I medical device according to 93/42/EEC Directive Class-II type-B equipment according to CEI EN 60601-1 Standard
Light source:	Single high-power LED (class-II source according to CEI EN 62471)
Light wavelength:	430 ÷ 490 nm; peak at 460 nm
LED lifespan:	5400000 cycles
Maximum emission power:	3200 mW/cm² (with Ø5 mm optical fibre)
Maximum curable thickness per single cycle:	3 mm
Power supply:	20 ÷ 36 Vdc; 24 ±10 % Vac; 350 mA maximum
Thermal protection:	Automatic in case of overheating
Lenght:	225 mm (including optical fibre)
Handpiece weight:	120 g.
Connector:	Modified 4-hole connection
Lenght of silicone hose:	1,6 m
Standard conformity:	CEI EN 60601-1; CEI EN 60601-1-2; European Directives 93/42/EEC and 2007/47/EC; IP20
Guarantee:	2 years

CE

CSQ IMQ

UNI EN ISO 13485

LAMPS / Cat.075UK/2011

MOON evolution

TKD

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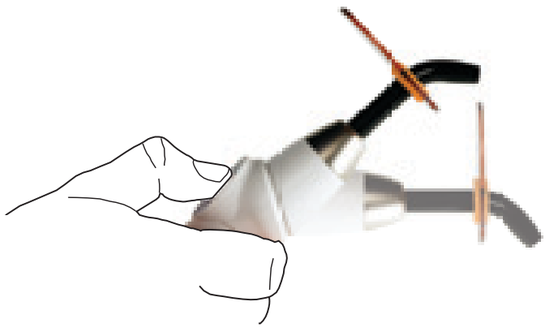
SIMPLIFYING DENTAL MOTION

MOON evolution

powerful and flexible

Extremely precise and reliable, *MOON evolution* is the most powerful and flexible curing lamp on the dental market, with programmes and accessories for every possible need.
Lamp has been effectively designed and tested for use with all photopolymerizable dental materials (composites, polymer compounds, adhesives, cement).
Ergonomic and articulated, the intrument can be used in straight or angular position.
The new light emission cycles have been improved and optimized according to clinical recommendations which focus on the aspects of supplied energy in relation to minimum light emission times. All this research has been carried out with the aim to prevent the phenomena of compound shrinkage. An optimal combination of short treatment times and reliable results has therefore been achieved.
Cycle B with gradual start, particularly, has been designed for Bonding.



The special swivelling fibre holder provides twice as much operating possibilities, allowing to treat any tooth easily.

Very high quality optical fibres ensure homogeneous light intensity over the entire surface area and consequent complete and effective polymerization. In traditional lamps, instead, light is uneven and leads to partial composite polymerization. Either the optical fibres or the protection shield can be sterilized in autoclave up to 134 °C.

*The user-friendly control interface displays **6** polymerization programmes, each different in light intensity and emission time, three of which featuring gradual start (Soft Start).*
Once a cycle is started, a buzzer emits a brief beep every 5 seconds.

Cycle	Power (mW/cm^2)	Total time (s)	Total energy (mJ/cm^2)
1 - Standard	1000	20	20000
2 - Fast	1600	15	24000
3 - Strong	1800	20	36000

Cycle	Initial power (mW/cm^2)	Partial time at initial power (s)	Ramp time (s)	Final power (mW/cm^2)	Partial time at final power (s)	Total time (s)	Total energy (mJ/cm^2)
B - Bonding	500	5	5	1000	5	15	11250
R - Rapid restoration	500	5	5	2200	5	15	20250
L - Long restoration	500	5	5	1800	10	20	26250

Polymerization cycles. Data values are valid as output of the Ø8mm optical fibre.