Advantages of HexaWave

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	Feature / Parameter	Specification / Comparison	Advantage of HexaWave to the User
1	**Colour / Whiteness**	Colour temperature as good as natural day sunlight in **HexaWave**, compared to yellowish light of Halogen	Proper visualisation, as we all are used to compare with colors seen in natural daylight
2	**Life**	Typical halogen bulb life is 500-1000 hours, while **HexaWave** LED life is typcially 50,000 to 100,000 hours (and user can see the LED life used in Hours:minutes on Digital Display too in **HexaWave**, which other light source gives such Life counter ?)	100 times more or 10000 % more If used for 8 hours a day, halogen bulb life will end after 63rd day, while **HexaWave** LED life will not end before 17 years No replacement for life time for **HexaWave** LED, compared to every 3-12 months for halogen - depending upon usage
3	**Heat Generation**	**HexaWave** is a very cool light source compared to Halogen or any other light source Because of the higher efficiency of electricity to light conversion for **HexaWave**, there is very little heat generation, while in halogen, most of the electrical energy is converted in to heat leading to higher heat generation as well as less light output	You can not think of touching halogen even after a minute of switching off, while you can touch **HexaWave** LED even when its on. Air-conditioner works better with **HexaWave**, to keep environment cool, and the head remains cooler - (as it is the nearest body part to the Head light)
4	**Power Efficiency**	Because very less power is used to generate the light compared to halogen, total power consumption is very low in **HexaWave**	A small contribution towards Energy Saving
5	**Size / Volume / Space / Weight**	**HexaWave** is 3 to 5 times slicker / thinner compared to a typical Halogen dome	Space is precious, specially if it is in Operation room
6	**Control**	**HexaWave** is embedded with Microprocessor for finer, precise and smooth control of intensity over full range of 0 to 100% with Digital Display, compared to analog Pot with discrete marking	Get the intensity what you want and can see on display
7	**Soft Output**	each output variation is controlled in smoother way compared to sudden light on or off in other light sources	On each on or off operation, light varies softly, giving less fatigue to eyes
8	**Laminar Flow**	No obstruction to the laminar flow due to **HexaWave**, compared to 4 to 5 times thicker dome structure of Halogen	Laminar flow management can be used very effectively with **HexaWave**, because of the thinner size

9	**Warranty**	2 years on **Hexawave** dome including LED, comapred to 1 year on Halogen or Xenon Light source - Excluding Bulb/Lamp	**HexaWave** - fit it, forget it.
10	**Technology**	**HexaWave** has state of the art techonolgy, and even the future is with LED	Support to the newer technologies like **HexaWave** will help building better products
11	**Environment / Pollution / Global Warming**	No mercury, no gases inside the bulb, no recycling in case of **HexaWave**	Green technology, helps protect the environment
12	**Emission of Rays**	No IR - InfraRed or UV-UltraViolet rays content, no arcing / sparking in **HexaWave**	No harmful rays on patient, surgeon or staff members
13	**On Off Cycles**	All other sources have limited number of on-off cycles, **HexaWave** LED has theoratically and practically infinite on-off operartions	Do not worry about blow off of bulb while switching on or off, no effect on life in case of **HexaWave**
14	**Light Output**	**HexaWave** light remains steady throughout, as no temp builds up in LED, while the light output varies with other light sources where temp changes from cold to hot	No change in light intensity for hours, even in case of mains voltage variation
15	**Flickering**	In halogen lamp, working on AC, a 50 Hz flickering comes, while in **HexaWave**, with DC LED, no such flickering	Though not apperant with naked eye, when seen on monitor and compared with a **HexaWave** light, a still picture can be appriciated comapred to other AC light sources
16	**Strong / Robust structure**	No reflector , no glass bulb used in **HexaWave**, Solid state semiconductor design	Once installed, don't handle with care for HexWave. also no Yellowishness of reflectors, no dimming of lights over a period
17	**Battery Opearation**	Possible to run **HexaWave** on direct battery in case of power failure	No inverter required
18	**Pulse Oximeter Reading Varition**	Pulse Oximetry principle is based on IR lights, and as other light sources emit IR also alongwith visible lights, sometimes the reading of Pulse Oximetry varies. Which never happens in **HexaWave**, as it emits pure white light without IR or any other wave lengths	No more variation in pulse oximeter reading with **HexaWave**
19	**Instant Soft Turn ON-OFF**	Halogen and other light sources take little time to get turn on/off fully, while **HexaWave** takes nanoseconds to turn on/off	Switch on **HexaWave** and start working without waiting for full light to turn on
20	**Maintenance**	A frequent schedule for bulb chaning in case of Halogen	In **HexaWave**- maintenance - for what?