



## Advantages of CoolWave

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	Feature / Parameter	Specification / Comparison	Advantage of CoolWave to the User
1	Colour / Whiteness	Colour temperature as good as natural day sunlight in <b>CoolWave</b> , compared to yellowish light of Halogen or Bluish of Xenon	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 and Xenon bulb life is 2000 hours, while <b>CoolWave</b> LED life is typically 50,000 to 100,000 hours, ( and user can see the LED life used in Hours:minutes on Digital Display too in <b>CoolWave</b> , 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 <b>CoolWave</b> LED life will not end before 17 years No replacement for life time for <b>CoolWave</b> LED, compared to every 3-12 months for Halogen or Xenon-depending upon usage
3	Heat Generation	<b>CoolWave</b> is a very cool light source compared to Halogen, Xenon or any other light source	You can not think of touching halogen or Xenon bulb even after a minute of switching off, while you can touch <b>CoolWave</b> LED even when its on.
		Because of the higher efficiency of electricity to light conversion for <b>CoolWave</b> , there is very little heat generation, while in halogen or Xenon, most of the electrical energy is converted in to heat leading to higher heat generation as well as less light output	Air-conditioner works better with <b>CoolWave</b> , to keep environment cool
4	Power Efficiency	Because very less power is used to generate the light compared to halogen or Xenon, total power consumption is very low in <b>CoolWave</b>	A small contribution towards Energy Saving
5	Size / Volume / Space / Weight	<b>CoolWave</b> is 3 to 10 times Smaller compared to a typical Halogen or Xenon Light source	Space is precious, specially if it is in Operation room / Trolley
6	Control	<b>CoolWave</b> 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	<b>Warranty</b>	3 years on <b>CoolWave</b> including LED, compared to 1 year on Halogen or Xenon Light source - Excluding Bulb/Lamp	<b>CoolWave</b> - forget it.
9	<b>Technology</b>	<b>CoolWave</b> has state of the art LED and control technology, and even the future is with LED	Support to the newer technologies like <b>CoolWave</b> will help building better products at reasonable cost
10	<b>Environment / Pollution / Global Warming</b>	No mercury, no gases inside the bulb, no recycling required in case of <b>CoolWave</b>	Green technology, helps protect the environment
11	<b>Emission of Rays</b>	No IR - InfraRed or UV-UltraViolet rays content, no arcing / sparking in <b>CoolWave</b>	No harmful rays on patient, surgeon or staff members
12	<b>On Off Cycles</b>	All other sources have limited number of on-off cycles, <b>CoolWave</b> LED has theoretically and practically infinite on-off operations	Do not worry about blow off of bulb while switching on or off, no effect on life in case of <b>CoolWave</b>
13	<b>Light Output</b>	<b>CoolWave</b> light remains steady throughout Voltage variations or Longer durations, 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 or years, even in case of mains voltage variation from 90 VAC to 260 VAC
14	<b>Flickering</b>	In halogen and xenon lamps, working on AC or sparks, a flickering can be seen on monitor, while in <b>CoolWave</b> , with DC LED, no such flickering	Though not apparent with naked eye, when seen on monitor and compared with a <b>CoolWave</b> light, a still picture can be appreciated compared to other AC light sources
15	<b>Strong / Robust structure</b>	No reflector, no glass bulb used in <b>CoolWave</b> , Solid state semiconductor design	Once installed, don't handle with care for <b>CoolWave</b> . also no Yellowishness of reflectors, no dimming of lights over a period
16	<b>Battery Operation</b>	Possible to run <b>CoolWave</b> on direct battery in case of power failure	No inverter required
17	<b>Instant Soft Turn ON-OFF</b>	Halogen and other light sources take little time to get turn on/off fully, while <b>CoolWave</b> takes nanoseconds to turn on/off.	Switch on <b>CoolWave</b> and start working without waiting for full light to turn on.
18	<b>Maintenance</b>	A frequent schedule for bulb changing in case of Halogen	In <b>CoolWave</b> - maintenance - for what?