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pressinformation

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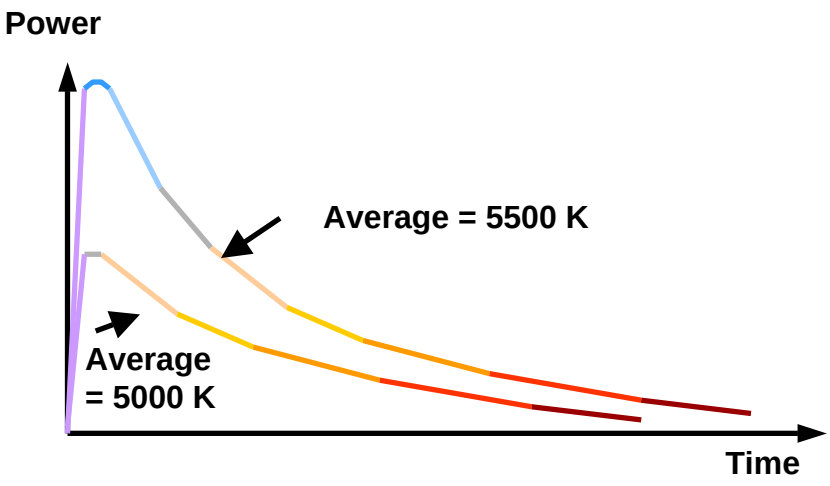
broncolor ECTC or constant colour temperature up to 11 f-stop levels

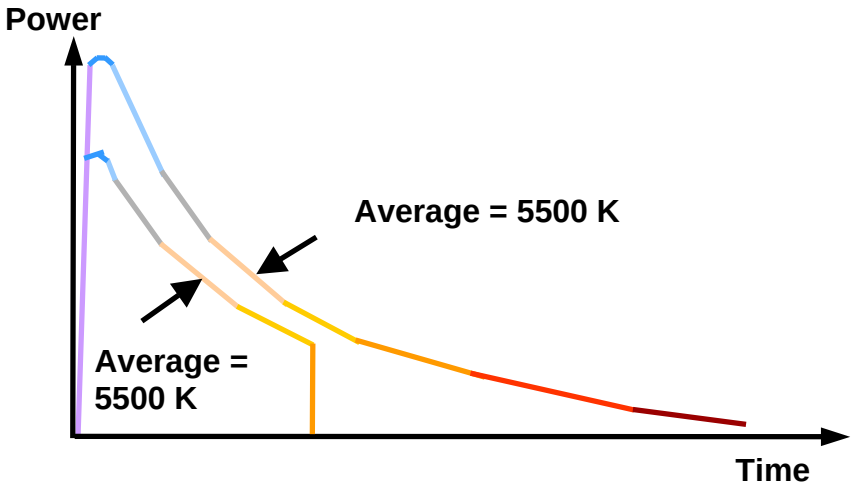
Cut-off technology ensures that the flash duration of a “computer flash” of a TTL-system unit is short. The disadvantage of having such a short flash duration is, however, that a blue dominance must be accepted. On the other hand, with conventional flash units, a colour temperature shift in the warmer colours can be noticed when the flash output is reduced. We would like to partly reveal to you, the secret of how broncolor (with a controlled combination of these two effects) manages to maintain a consistent colour temperature with the studio units Grafit and Scoro:

For over a decade broncolor has been using its own patented CTC (Colour Temperature Control) process. It was revised again for the latest Scoro power pack. The additional „E“ denotes „Enhanced“, i.e. enhanced and expanded. With this process, flash voltage and flash duration are optimally coordinated. The result is a consistent colour temperature and light distribution. Even in stroboscopic mode with 50 flashes per second, the temperature remains the same for each individual flash! This and other features have been patented for Scoro.



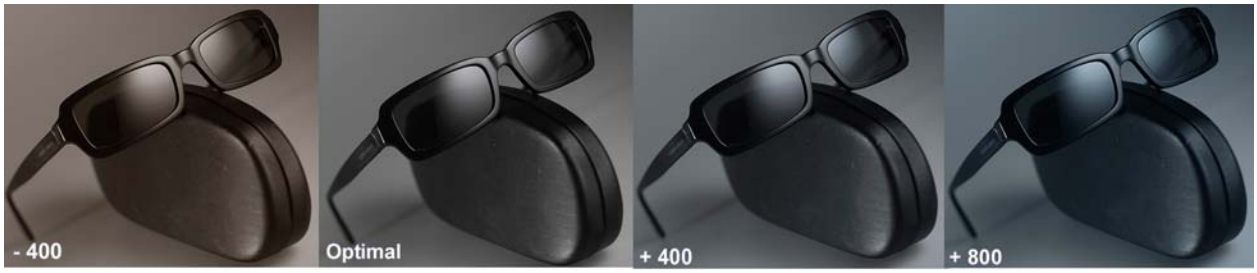
The classical flash curve

The classical flash curve of all flash units has, amongst other things, the following characteristics:
At the beginning, “cold“ light appears in the ascending slope of the flash curve (comparable with the blue of a rainbow). As the flash intensity decreases, the colour temperature of the light becomes “warmer” (yellowish and reddish). The sum of the spectral composition gives a colour temperature comparable to daylight. If the flash of an amateur flash unit is switched off, the warm light values cease to exist and the flash remains blue.



Flash curve Flash with cut-off technology and ECTC

The electronic switching ECTC achieves an adjustment of the flash curve profile, so that the content of the area under the flash curve or the selected amount of light, respectively, is produced with constant colour temperature.



Because broncolor has flash curves and colour temperature “under control“ with ECTC, the same process can also be used, in addition, to deliberately adjust flash light in intervals of +/- 200 K. In that way, the colour temperature can be influenced for use as an artistic means, or dominant ambient colour values (that, for instance, change the light by reflection) can be corrected (e.g. on location shoots).
This new technology guarantees consistent colour temperature with symmetrical light distribution - with Scoro over 11 f-stop intervals and even in asymmetry up to 7 f-stop intervals. Of course, this method functions also using the so-called “speed mode”, for super-fast flash sequences and short flash duration, thus setting new standards in fashion photography.
The colour temperature of Scoro is electronically stabilised on all three outlets. Therefore, no new lamps and light shapers are needed. The user can simply connect broncolor lamps dating back to 1972, and profit from the new technology!

Please contact your broncolor distributor for further information on broncolor Grafit A RFS and Scoro RFS units, or visit our website www.broncolor.com.