Backlights

Standard and MetaBright^{TM} Series

Backlighting is one of the most popular forms of vision inspection illumination, providing maximum contrast between object and scene and producing a high contrast image with consistent edge definition. *Metaphase* Backlights combine the latest high brightness LEDs with exclusive optical lensing to create high intensity and uniform (+/- 5%), shadow-free illumination.

Connectorized and convenient 24VDC power supply features an onboard and integrated driver. Commonly applied to measuring, defect and hole detection, and determining the orientation of parts. *Metaphase* offers variety of backlights to suit the needs of various applications: area, linear, narrow, and our highly compact thin backlights. Backlights can be configured for wavelength and other specifications.

Metaphase Backlight in use on a pick and place factory line for cosmetic assembly.

Features:

· Up to 50 SMD LED's per inch array makes our backlights the brightest most stable backlights

· Exclusive optical lens provides high uniformity (+/- 5%), shadow-free backlight illumination

· High Density Precision Chip Technology (HDPCT)

· Patent-pending thermal management design draws heat directly from the die ensuring long life

· Metaphase Technologies has the largest selection of Backlights in the vision industry.

· Backlights with in-line and built-in strobe circuit available

      -(Simply provide 24VDC to power light and trigger signal to strobe the backlight)

· Backlight shapes/sizes include low profile, narrow and large area backlights

· Options include built-in line remote & potentiometer intensity control

Applications:

· Absence/presence of objects

· Defect detection in glass/plastic containers

· Object tracking (Fish in aquarium)

· PCB (printed circuit board) board assembly through-hole lead detection

· Web inspection (pin-holes in web)

· Bottle cap detection

· Bolt/Bolt thread inspection

· Glass Sheet defect detection

· Sub-pixel dimensional inspection