

PHLOX A VISION
AHEAD

machine vision



LED backlights

PHLOX® Aerospace L.E.D. Backlights for LCD
A new generation of backlights which enhances the MTBF and the efficiency, superior to competitive systems.

A VISION
AHEAD

aerospace backlights

Technology

PHLOX® technology is the result of several years of research in optics and electronics. This research has led to the filing of several international patents: proof of our technological advance. Our know-how is expressed in the manufacturing of the light guide according to the patented PHLOX process and in the optimization of its coupling with the light source, combined with high-grade optical components.

DISPLAY SIZE	PART DESCRIPTION
SAT1	PHLOX LEDW-BL-SAT1-S-O-18-CUR
Luminance on the backlight (Typical)	8 000 cd/m ²
Luminance on the backlight (Max.)	14 000 cd/m ²
Luminance Through LCD (Typical)	850 cd/m ²
Uniformity (Min/Max)	85 % (±1-10 %)
Source Type	White LED
Light Angular Distribution	Lambertian
Expected Life with typical luminance	50 000 hours
Colour Temperature	6700°K
Power Consumption (Typical)	3.5W
SAT1-NVIS	PHLOX LEDW-BL-SAT1-NVIS-S-O-18-CUR
Luminance on the backlight (Typical)	7 000 cd/m ²
Luminance on the backlight (Max.)	11 000 cd/m ²
Luminance Through LCD (Typical)	770 cd/m ²
Uniformity (Min/Max)	75 % (±1-10 %)
Source Type	White LED
Light Angular Distribution	NVIS
Expected Life with typical luminance	50 000 hours
Colour Temperature	6700°K
Power Consumption (Typical)	3.5W
SAT2	PHLOX LEDW-BL-SAT2-S-O-18-CUR
Luminance on the backlight (Typical)	7 000 cd/m ²
Luminance on the backlight (Max.)	12 500 cd/m ²
Luminance Through LCD (Typical)	620 cd/m ²
Uniformity (Min/Max)	85 % (±1-10 %)
Source Type	White LED
Light Angular Distribution	Lambertian
Expected Life with typical luminance	50 000 hours
Colour Temperature	6700°K
Power Consumption (Typical)	2.5W
SAT2-NVIS	PHLOX LEDW-BL-SAT2-NVIS-S-O-18-CUR
Luminance on the backlight (Typical)	8 000 cd/m ²
Luminance on the backlight (Max.)	11 000 cd/m ²
Luminance Through LCD (Typical)	800 cd/m ²
Uniformity (Min/Max)	85 % (±1-10 %)
Source Type	White LED
Light Angular Distribution	NVIS
Expected Life with typical luminance	50 000 hours
Colour Temperature	6700°K
Power Consumption (Typical)	3.5W

PHLOX develops and commercializes **high technology** products for backlighting and industrial lighting. It is more specifically involved in backlighting for Liquid Crystal Displays (in aerospace - civil and military) and Machine Vision lighting.

Since its creation in 1996, PHLOX engineers have put all their know-how into the **development** of products whose performance is unequalled (higher luminance, better uniformity and a longer "life cycle"...). This innovative power has been rewarded on several occasions by prizes for the excellence of the technologies and production methods developed.

It is this **commitment** that is behind our work everyday at PHLOX: combining the best that men and technologies have to offer in the promise of solutions for the varied applications of our clients.

This formula has produced the best results: the satisfaction of our clients and high performance products. This is why PHLOX has grown an average of 40% a year over the last four years. PHLOX is expanding its business worldwide and is already present in 23 countries, including yours certainly, and tomorrow most probably in the rest of the world.

More than lighting, we offer you a vision ahead, today and tomorrow.




quality

A VISION
AHEAD

aerospace &
machine vision



commitment



PHLOX develops and commercializes **high technology** products for backlighting and industrial lighting. It is more specifically involved in backlighting for Liquid Crystal Displays (in aerospace - civil and military) and Machine Vision lighting.

Since its creation in 1996, PHLOX engineers have put all their know-how into the **development** of products whose performance is unequalled (higher luminance, better uniformity and a longer "life cycle"...). This innovative power has been rewarded on several occasions by prizes for the excellence of the technologies and production methods developed.

It is this **commitment** that is behind our work everyday at PHLOX: combining the best that men and technologies have to offer in the promise of solutions for the varied applications of our clients.

This formula has produced the best results: the satisfaction of our clients and high performance products. This is why PHLOX has grown an average of 40% a year over the last four years. PHLOX is expanding its business worldwide and is already present in 23 countries, including yours certainly, and tomorrow most probably in the rest of the world.

More than lighting, we offer you a vision ahead, today and tomorrow.




quality