

COBRA™ Max

LED Line Light



Extreme brightness illumination for linescan and web inspection

COBRA Max has been designed to deliver extreme brightness for your linescan application, delivering up to twice the intensity of our COBRA Slim product. Integrated optics have been optimised to deliver up to 5 million lux whilst retaining the slim and compact design of our COBRA Slim product.

COBRA Max utilises Chip-on Board technology to ensure extreme brightness and excellent uniformity. A wide range of wavelengths are available from UV to Visible and IR. The product is also available in the new COBRA Flex configuration for applications where space is restricted.

COBRA Max, like COBRA Slim, offers field adjustable optics allowing you to select the optimum lens position for your application. COBRA Max is modular and is available in any length up to 5 metres.

Key Features

- Extreme brightness: Up to X2 intensity of COBRA Slim
- Slim & Compact Design
- Field adjustable focusing distance & diffusers
- Available on all standard configurations of COBRA Slim and COBRA Flex
- Wavelengths from UV to Visible & IR

Options Available

- Strobing function available for even higher intensities, up to 5 million Lux.
- Onboard Ethernet control

Key Applications

Web and linescan inspection of:

- Foil
- Paper
- Plastic film
- Currency
- PCBs
- Glass
- Semiconductors
- Flat panel displays

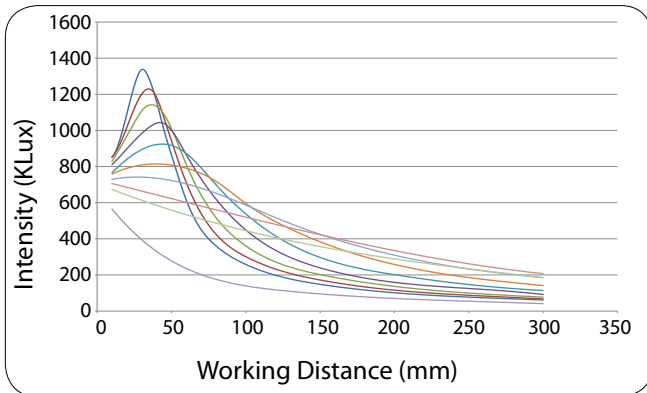
Maximum Intensity (kLux)¹

	Convection Cooled		Fan Cooled	
	COBRA Slim	COBRA Max	COBRA Slim	COBRA Max
Red	273	540	635	1350
White	373	660	945	1650

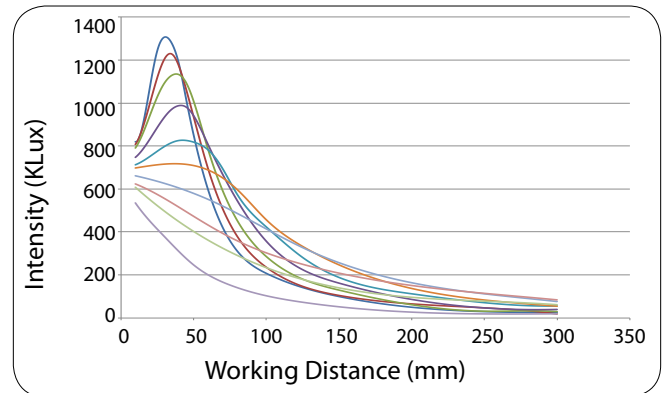
¹ Measured values are for continuous wave S9/M9 units, ≥ 300 mm in length, measured at the optimal working distance.

COBRA Max RED - Illumination Characteristics

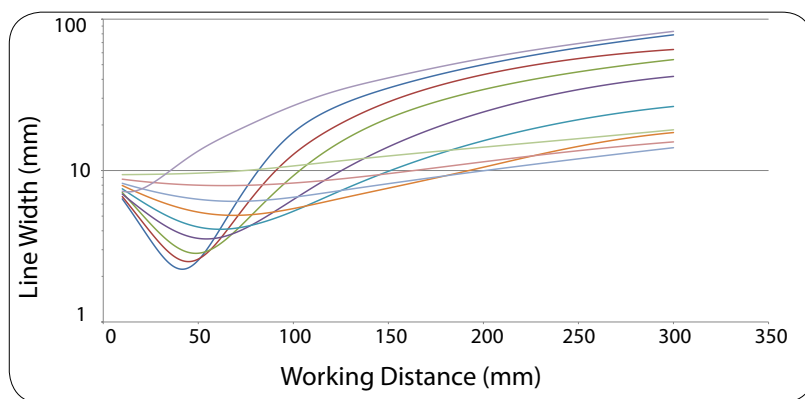
Intensity versus Working Distance (300mm unit) Red



Intensity versus Working Distance (100mm unit) Red

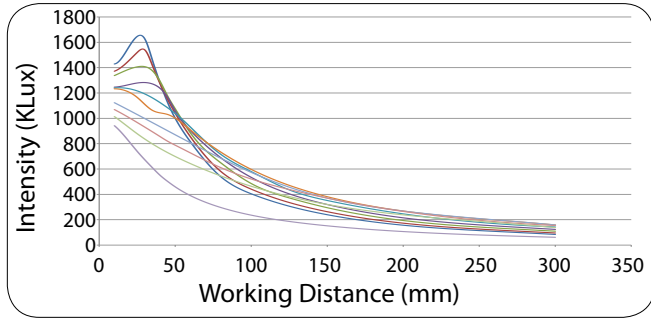


Line Width versus Working distance - Red

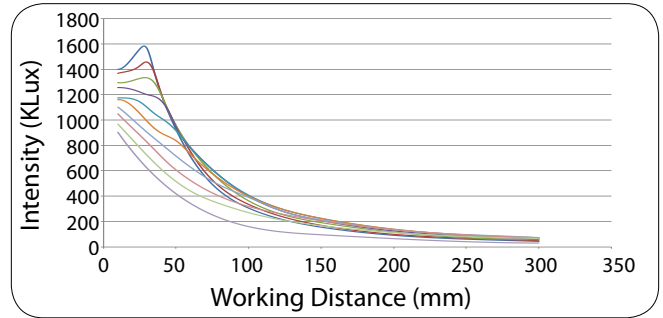


COBRA Max White - Illumination Characteristics

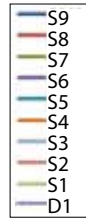
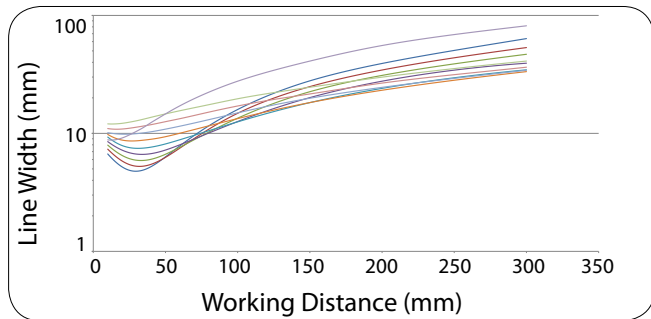
Intensity versus Working Distance
(300mm unit) White



Intensity versus Working Distance
(100mm unit) White



Line Width versus Working Distance White



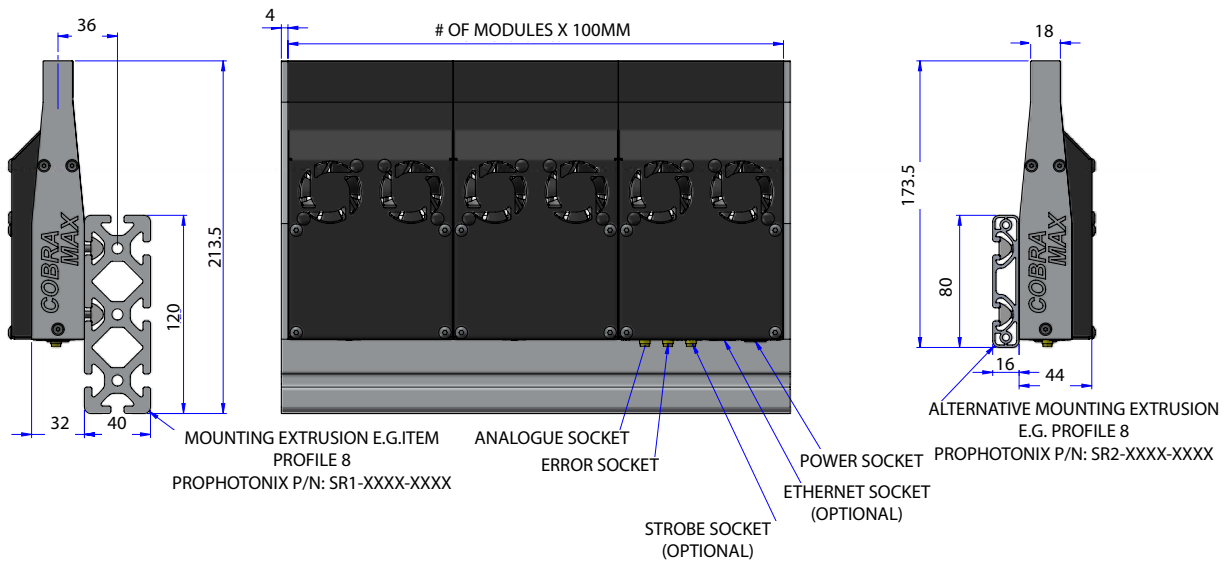
Part Numbers

Cooling		Configuration		Standard Wavelengths (nm)		Length (mm)	Lens Type ⁽⁶⁾		Lens Position		Diffuser or Options	
C	Convection	IL	Error output & analogue control	0365	UV	0100	M	Max	0	No Lens	D0	No Diffuser
T	Fan	SL	IL Options + Strobe Capability	0395	UV	↓			1	Closest to LEDs	D1	60:10 (Backlight)
		EL	IL Options + Ethernet Connector	0470	Blue	0900			↓	Furthest from LEDs	D2	30:1
		AL	All Options	0630	Red	1000			9		D3	To Be Defined
				0870	Near-IR	1100					↓	To Be Defined
				0000	White						D9	
				ORGB	Red, Green & Blue	↓					F1-9	Additional Focusing Lens Option
						6000					P1-9	Parallel Light (Adaptor Option)

365-1500 nm custom wavelengths available

(6) Non-standard lenses are also available on request

Dimensional Diagram



For all COBRA Max longer than 100mm, standard Item brand aluminium extrusion Profile 8 is used for rigidly aligning and connecting the 100mm COBRA Max modules together. The extrusion is also used for mounting the light in the machine. Two options are available (see dimensional specifications). To order your extrusion select the profile (SR1/SR2) - select the length of the COBRA Max (XXXX) - Decide on the length of rail required (XXXX)

(Note: the overall length of the COBRA is 8mm longer than its illuminated width)



Note: Other extrusion profile forms and dimensions available on request. Custom back plates also available on request. 100mm units do not require a mounting extrusion.

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