



Specifications

O^{2D}S Z-Line Scanner series



HT / High target temperature (1000°C) versions and VHT (1300°C) as well as VVHT (1500 up to 2200°C) are also available.

Models :	O ^{2D} S 250	O ^{2D} S 325	O ^{2D} S 500	O ^{2D} S 750	O ^{2D} S 505	O ^{2D} S 1155	O ^{2D} S 1350	O ^{2D} S 1950
Measurement data:								
Radial distance from mirror axis	200-300 mm	200-450 mm	250-750 mm	400-1100 mm	450-550 mm	1000-1300 mm	700-2000 mm	1500-2400 mm
Minimum 10° scan arch	± 5°	± 5°	± 5°	± 5°	± 5°	± 5°	± 5°	± 5°
Depth of Field (X)	98 mm	248 mm	497 mm	695 mm	98 mm	295 mm	1292 mm	890 mm
Field of View close end (Y)	35 mm	35 mm	43 mm	70 mm	79 mm	175 mm	123 mm	262 mm
Field of View far end (Y)	52 mm	78 mm	130 mm	191 mm	95 mm	226 mm	348 mm	418 mm
Maximum 50° scan arch	± 25°	± 25°	± 25°	± 25°	± 25°	± 25°	± 25°	± 25°
Depth of Field (X)	72 mm	207 mm	429 mm	597 mm	48 mm	178 mm	1113 mm	675 mm
Field of View close end (Y)	186 mm	186 mm	232 mm	372 mm	419 mm	932 mm	652 mm	1398 mm
Field of View far end (Y)	253 mm	379 mm	633 mm	928 mm	464 mm	1098 mm	1688 mm	2028 mm
Radial / Polar Resolution	0.03 mm	0.05 mm	0.2 mm	0.3 mm	0.05 mm	0.2 mm	0.8 mm	0.7 mm
Radial / Polar Reproducibility	± 0.03 mm	± 0.05 mm	± 0.2 mm	± 0.3 mm	± 0.05 mm	± 0.2 mm	± 0.8 mm	± 0.7 mm
Radial / Polar Linearity	± 0.10 mm	± 0.20 mm	± 0.4 mm	± 0.5 mm	± 0.10 mm	± 0.5 mm	± 1.6 mm	± 1.4 mm
Size of spot	Ø 0.5 mm	Ø 0.5 mm	Ø 1 mm	Ø 1.5 mm	Ø 1 mm	Ø 1 mm	Ø 1.5 mm	Ø 1.5 mm
Laser protection class: 2 kHz / 6 kHz	IEC 2 / IEC 2	IEC 2 / IEC 3R	IEC 2 / IEC 3R	IEC 2 / IEC 3R	IEC 2 / IEC 3R	IEC 3R / IEC 3B	IEC 3R / IEC 3B	IEC 3R / IEC 3B

*) Static measurement on white paper without any averaging of the output signals, sampling and output frequency being equal.

Common Measurement data:

Updating frequency	2000 Hz or 6000 Hz
Scan rate (from one side to the other for 2 kHz model)	600 or 300 scans/min.
Angular resolution at Minimum 10° scan arch (2 kHz)	< 0.08° or < 0.04°
Angular resolution at Maximum 50° scan arch (2 kHz)	< 0.4° or < 0.2°
Scan rate (from one side to the other for 6 kHz model)	1800, 900 or 450 scans/min.
Angular resolution at Minimum 10° scan arch (6 kHz)	< 0.08° < 0.04° or < 0.02°
Angular resolution at Maximum 50° scan arch (6 kHz)	< 0.4° < 0.2° or < 0.1°
Temperature deviation	± 0.03% FS/C°
Light source red or blue diode (nm)	Laser (650 or 405)

Electrical data:

Serial output : 2 kHz / 6 kHz	RS232 or RS422 or Ethernet
Baud rate : 2 kHz / 6 kHz	115200 / 230400
Supply voltage	22 - 28 VDC
Power consumption	max 12 W

Environment data:

Operating temperature	0 - +45 C°
Storage temperature	-20 - +70 C°
Humidity non condensing	Max 90 % RH
Degree of protection	IEC IP65
Operating temperature	0 - +45 C°

Physical data:

Dimensions	310 x 190 x 64 mm
Weight excl. Cable	4.5 kg
Cable length	2.5 m
Housing	Aluminum & Glass windows

