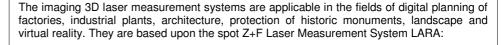


Technical data Z+F IMAGER 5006i







Ambiguity interval:	79 m			
Min. range:	0.4 m			
Resolution Range:	0.1 mm			
Data acquisition rate:	≤ 508 000 pxl/sec.			
Linearity error up to 50m:1	≤ 1 mm			
Range noise at 10 m: ^{1 2} > Reflectivity 10% (black): > Reflectivity 20% (dark grey): > Reflectivity 100% (white):	1.2 mm rms 0.7 mm rms 0.4 mm rms			
Range noise at 25 m: ^{1 2} > Reflectivity 10% (black): > Reflectivity 20% (dark grey): > Reflectivity 100% (white):	2.6 mm rms 1.5 mm rms 0.7 mm rms			
Range noise at 50 m: ^{1 2 3} > Reflectivity 10% (black): > Reflectivity 20% (dark grey): > Reflectivity 100% (white):	6.8 mm rms 3.5 mm rms 1.8 mm rms			
Range drift over temp. (-10 – 45°C):	negligible due to internal reference			
Optical transceiver				
Laser	visible			
Beam divergence:	0.22 mrad			
Beam diameter at 1 m distance:	3 mm circular			
Laser safety class:	3R (ISO EN 60825-1)			
Deflection unit	Deflection unit			
System vertical: System horizontal:	Rotating mirror Rotating device			
Field of view vertical: Field of view horizontal:	310° 360°			
Resolution vertical: Resolution horizontal:	0.0018° 0.0018°			
Accuracy vertical: ¹ Accuracy horizontal: ¹	0.007° rms 0.007° rms			
Max. scanning speed vertical: Typ. Scanning speed vertical:	≤ 50 rps 25 rps			
Resolution				
Resolutions:	Pixel / 360° (vertical, horizontal)	Scanning time / 360°		
"preview":	1 250	25 sec		
"middle":	5 000	1 min 40 sec		
"high":	10 000	3 min 22 sec		
"super high":	20 000	6 min 44 sec		
"ultra high":	40 000	26 min 40 sec		



Max resolution for selections:

100 000



 $^{^{1)}}$ detailed explanation on demand – please contact $\underline{imager5006@zf\text{-}laser.com}$

 $^{^{2)}}$ data acquisition rate: 127 000 pxl/sec., raw data, in High Power Mode $^{3)}$ values extrapolated



Technical data Z+F IMAGER 5006i





Miscellaneous			
Tilt measurement:			
> Resolution:	1/1 000°		
> Accuracy:	1/500°		
Data interface:	Ethernet / USB 2.0		
Data storage:	Internal HDD (<u>></u> 60 GB)		
Communication interface:	Ethernet / WLAN		
Integrated operation panel:			
> Display:	4 Lines		
> Keypad:	6 Buttons		
Power supply:			
> Input voltage:	24V DC (scanner) 90–260V AC (power unit)		
Power consumption:	65 W max.		
Battery life time:			
> Changeable battery pack	2,5 h		
> External battery (TRAPP-15-24)	4 h		
	• • •		
Ambient conditions:			
> Calibrated temperature:	-10℃ - 45℃		
> Storage temperature:	-20 ℃ - 50 ℃		
> Humidity:	non-condensing		
> Target reflectivity: > Illumination:	no retro-reflectors		
> Illullillation.	all conditions from darkness to daylight		
Dimensions and weights			
Scanner (w x d x h):	286 mm x 190 mm x 372	14 kg	
Bottom of scanner to horizontal axis	242 mm		
Tripod:			
> Height:	approx. 80 cm -140 cm	9 kg	
> Diameter:	approx. 120 cm		