



Z+F IMAGER[®] 5006EX

The world's first 3D Laserscanner with ATEX-Certification offers a lot of advantages: the ability to swap batteries in explosive environments, a stand alone concept to allow safe operation scanner control of the scanner via control panel onboard or remote operation via W-LAN.

| Lasersystem | | | |
|---|---------------------|------------|-------------|
| Laser safety class | 3R (ISO EN 60825-1) | | |
| Beam divergence | 0.22 mrad | | |
| Beam diameter | 3 mm circular @ 1 m | | |
| Ambiguity interval | 79 m | | |
| Min. range | 0.4 m | | |
| Resolution range | 0.1 mm | | |
| Data acquisition rate | ≤ 508,000 pixel/sec | | |
| Linearity error up to 50 m ¹ | ≤ 1 mm | | |
| Range noise | black 10 % | grey 20 % | white 100 % |
| Range noise, 10 m ¹² | 1.2 mm rms | 0.7 mm rms | 0.4 mm rms |
| Range noise, 25 m ¹² | 2.6 mm rms | 1.5 mm rms | 0.7 mm rms |
| Range noise, 50 m ¹² | 6.8 mm rms | 3.5 mm rms | 1.8 mm rms |
| Temperature drift | negligible | | |

| Deflection Unit | |
|----------------------------------|-----------------------------|
| System vertical | rotating mirror |
| System horizontal | rotating device |
| Field of view vertical | 310° |
| Field of view horizontal | 360° |
| Resolution vertical | 0.0018° |
| Resolution horizontal | 0.0018° |
| Accuracy vertical ¹ | 0.007° rms |
| Accuracy horizontal ¹ | 0.007° rms |
| Scanning speed | ≤ 50 r/s (3,000 r/min) max. |

1. detailed explanation on demand – please contact info@zf-laser.com
 2. data acquisition rate: 127,000 pxl/sec



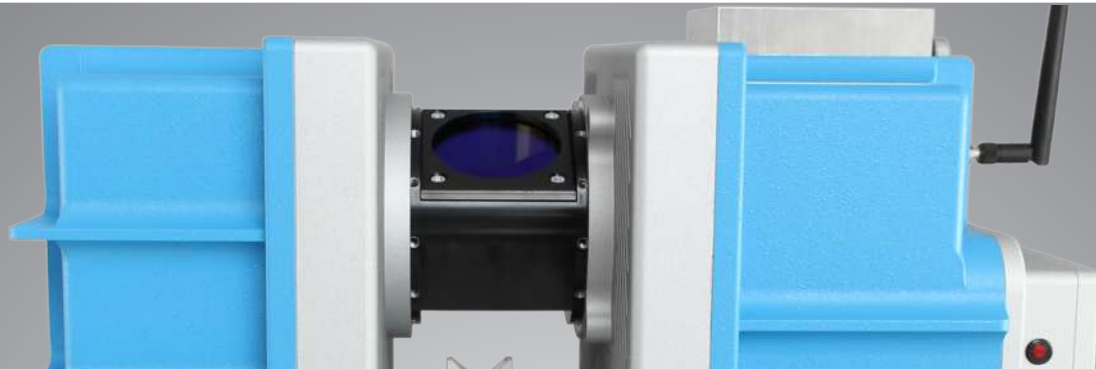
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| Resolution | | |
|--------------|---------------------------------------|------------------------|
| Resolutions | Pixel / 360° horizontal & vertical | Scanning time for 360° |
| „preview“ | 1,250 | 0:25 min. |
| „middle“ | 5,000 | 1:40 min |
| „high“ | 10,000 | 3:22 min |
| „super high“ | 20,000 | 6:44 min |
| „ultra high“ | 40,000 | 13:38 min |

| General | |
|--------------------------------|---|
| Tilt measurement | Resolution: 0.001° Accuracy (zero point): 0.002° |
| Data storage | 60 GB internal HDD |
| Integrated operation panel | Keypad: 6 Buttons ; Display: 4 Lines |
| Data & Communication interface | Ethernet / W-LAN |

| Power supply | |
|-------------------|-------------------------------|
| Input voltage | 18V DC (scanner) |
| Power consumption | 65 W max. |
| Battery life time | 1 h (changeable battery pack) |

| Ambient conditions | |
|-----------------------------|------------------------------|
| Calibrated temperature | 0°C to +40°C |
| Storage temperature | -20°C to +50°C |
| Illumination | all conditions |
| Humidity; Dust/air humidity | non-condensing |
| Protection class | IP 53 |
| Explosion protection | ATEX 94/9/EG, class I and II |
| Target reflectivity | no retro-reflectors |



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| Dimensions and weights | |
|---|---|
| Scanner: (w x d x h) weight | 250 x 395 x 414 mm 30.6 kg |
| Battery Dimensions (w x d x h) Weight | 100 x 100 x 203 mm 3.5 kg |
| Bottom of scanner to horizontal axis | 343 mm |
| Special Tripod: Height Diameter Weight | approx. 800 - 1,400 mm approx. 2,800 mm 12 kg |

