

MICRONTRACKER 3 SPECIFICATIONS

Below you can find the detailed specifications for the available MicronTracker models. The highlighted rows are some details that are generally more important to consider. Please contact us for more information and if you need any advice on choosing the model to best suit your specific application.

Specification \ Model	H3-60	Sx60	Hx40	Hx60
		No longer available		
Available	now	now	now	now
FOM, spherical section (radius x width x height)	240 x 200 x 160 cm	115 x 70 x 55 cm	120 x 120 x 90 cm	200 x 130 x 100 cm
Measurement rate	16 Hz	48 Hz	20 Hz	20 Hz
Calibration accuracy ¹	0.20 mm RMS	0.25 mm RMS	0.20 mm RMS	0.35 mm RMS
Jitter, static target ²	0.007 mm RMS	0.007 mm RMS	0.015 mm RMS	0.015 mm RMS
Jitter, moving target ²	0.07 mm RMS	0.07 mm RMS	0.14 mm RMS	0.14 mm RMS
Processing time/frame (2.5GHz Intel Q8300, 4 markers)	15 ms	7 ms	10 ms	10 ms
Lag	~60 ms	~20 ms	~50 ms	~50 ms
Sensors resolution	1280×960	640×480	1024×768	1024×768
Lenses / H°xV°	6 mm 50°x38°	6 mm 50°x38°	4 mm 70°x52°	6 mm 50°x38°
Case dimensions (WxHxD, approx.)	283 x 43 x 49 mm	164 x 43 x 54 mm	164 x 43 x 54 mm	164 x 43 x 54 mm
Weight (approx.)	505g	342g	342g	342g
Electrical Interface	IEEE-1394b (FireWire), 800 Mbps	IEEE-1394a (FireWire), 400 Mbps		
Mount	1/4" thread tripod mount			
Operating temperature	18-30°C (64-86°F)			
Warm-up period	~20 minutes	~15 minutes		
Max. # of marker templates	practically unlimited			
Max. # of markers concurrently tracked	100			
Illumination range	50-100,000 Lux (20-400,000 Lux in HDR mode)			
Max illumination variation between markers	6:1 ³ (1000:1 in HDR mode)			
Certifications	IEC 60601-1, FCC Part 15 Class A, RoHS and WEEE compliant			
Drift: temperature, pressure, light intensity, marker orientation, motion blur, exposure settings	Insignificant			
Hazard warnings issued	Marker out of FOM; Thermal instability; Temperature out of range; Shadow over target			
Operating system	MS-Windows 7/Win 8/Win 10, Linux, 32bit and 64bit			
Minimal computer hardware	2GHz CPU, 1 GB RAM, 1 GB disk space			

- 1. Single target (Xpoint), over 20,000 averaged positions at depths of 40-100cm
- 2. Single target at a depth of 75cm, 150 Lux, 20ms shutter
- 3. The range can be extended to 20:1 with black/gray targets under bright illumination

MICRONTRACKER FIELDS OF MEASUREMENT

