Smith+Nephew + atracsys

Tech Specs	fusionTrack 500	fusionTrack 250	spryTrack 180	spryTrack 180 AR
Size	528mm x 80mm x 85 mm	294mm x 86mm x 99mm	233mm x 57mm x 47mm	233mm x 57mm x 47mm
Weight	2.16 kg	1.28kg	670 g	670 g
Accuracy	0.09mm RMS up to 2m 0.11mm RMS up to 2.4m 0.15mm RMS up to 2.8m ********** 0.17mm 95% CI up to 2m 0.22mm 95% CI up to 2.4m 0.30mm 95% CI up to 2.8m	0.09mm RMS up to 1.4m 0.20mm RMS up to 2m 0.27mm RMS up to 2.4m ********** 0.18mm 95% CI up to 1.4m 0.40mm 95% CI up to 2m 0.54mm 95% CI up to 2.4m	0.13mm RMS up to 1m 0.24mm RMS up to 1.4m 0.49mm RMS up to 2m ********** 0.26mm 95% CI up to 1m 0.47mm 95% CI up to 1.4m 0.99mm 95% CI up to 2m	0.13mm RMS up to 1m 0.24mm RMS up to 1.4m 0.49mm RMS up to 2m ********** 0.26mm 95% CI up to 1m 0.47mm 95% CI up to 1.4m 0.99mm 95% CI up to 2m
Tracking volume	starting at 700mm up to 2800mm	starting at 400mm up to 2400mmm	starting at 200mm up to 2000mm	starting at 200mm up to 2000mm
Acquisition rate	335Hz	120Hz	54Hz	54Hz
Acquisition type	Parallel (all fidicuals at the same time)	Parallel (all fidicuals at the same time)	Parallel (all fidicuals at the same time)	Parallel (all fidicuals at the same time)
Image Acquisition	Not Applicable	Not Applicable	Not Applicable	Live video images, tracking images or interleaved acquisition
Latency	≈4ms	≈4ms	≈25ms	≈25ms
Hardware Requirements	Intel(R) Core(TM) i3-6100U CPU @ 2.30GHz - 4 GB DDR3 RAM: - 50 MB (Windows) or 30 MB (Unix/Linux) disc space; - Window 8.1 (32 and 64 bits supported); - Linux (32 and 64 bits supported), gcc 5.4 or clang 3.8.	Intel(R) Core(TM) i3-6100U CPU @ 2.30GHz - 4 GB DDR3 RAM: - 50 MB (Windows) or 30 MB (Unix/Linux) disc space; - Window 8.1 (32 and 64 bits supported); - Linux (32 and 64 bits supported), gcc 5.4 or clang 3.8.	Intel(R) Core(TM) i3-6100U CPU @ 2.30GHz - 4 GB DDR3 RAM: - 50 MB (Windows) or 30 MB (Unix/Linux) disc space; - Window 8.1 (32 and 64 bits supported); - Linux (32 and 64 bits supported), gcc 5.4 or clang 3.8. - The Linux Kernel support for USB3 started at version 2.6.31. For Bluetooth Low Energy, kernel versions greater than 3.4 should be used	Intel(R) Core(TM) i3-6100U CPU @ 2.30GHz - 4 GB DDR3 RAM: - 50 MB (Windows) or 30 MB (Unix/Linux) disc space; - Window 8.1 (32 and 64 bits supported); - Linux (32 and 64 bits supported), gcc 5.4 or clang 3.8. - The Linux Kernel support for USB3 started at version 2.6.31. For Bluetooth Low Energy, kernel versions greater than 3.4 should be used
Hybrid Tracking	Reflective spheres/disks Active wired and wireless	Reflective spheres/disks Active wired and wireless	Reflective spheres/disks Active wired and wireless	Reflective spheres/disks Active wired and wireless
Operating systems	Windows/Linux	Windows/Linux	Windows/Linux	Windows/Linux
Operating temperature	15-30°C	15-20°C	15-20°C	15-20°C
Shock Sensor	Shock sensor RTC monitoring device even when not connected	Shock sensor RTC monitoring device even when not connected	Shock sensor RTC monitoring device even when not connected	Shock sensor RTC monitoring device even when not connected
Mounting	4x M4 screws OR tripod 1/4-20 UNC	4x M4 screws	4x M3 screws	4x M3 screws
Generic Extension port	Trigger in/out, timestamp retrieval, synchronization of multiple units	Not Applicable	Not Applicable	Not Applicable
Lasers	2 lasers for device positioning	Not Applicable	2 lasers for device positioning	2 lasers for device positioning
Power Requirements	Power over Ethernet (PoE+ IEEE 802.3at-2009 type 2): 48V 0..6A 25.5W	Power over Ethernet (PoE+ IEEE 802.3at-2009 type 2): 48V 0..6A 25.5W	USB power delivery 12V 1.7A 20.4W	USB power delivery 12V 1.7A 20.4W
SDK	C (DLL), C++, Python wrapper, Matlab wrapper	C (DLL), C++, Python wrapper, Matlab wrapper	C (DLL), C++, Python wrapper, Matlab wrapper	C (DLL), C++, Python wrapper
Max fiducials per marker	6	6	6 ATTN: spryTrack w/ Bluetooth --> 4	6 ATTN: spryTrack w/ Bluetooth --> 4
Max simultaneous markers	Almost unlimited	Almost Unlimited	Almost unlimited ATTN: spryTrack w/Bluetooth --> 4	Almost unlimited ATTN: spryTrack w/Bluetooth --> 4
Resolution	2x 2.2MP	2x 2.2MP	2x 1.2MP	2x 1.2MP
Interface	Gigabit Ethernet 1000BASE-T (IEEE 802.3ab)	Gigabit Ethernet 1000BASE-T (IEEE 802.3ab)	USB 3.0 Type C SuperSpeed BTLE low energy	USB 3.0 Type C SuperSpeed BTLE low energy
Approvals	Electrical Safety IEC 60601-1 ed3.1C (2012-08-20) Electronmagnetic compatibility IEC 60601-1-2 ed 4.0 (2014-02-05) CB Report available	Electrical Safety IEC 60601-1 ed3.1C (2012-08-20) Electronmagnetic compatibility IEC 60601-1-2 ed 4.0 (2014-02-05) CB Report available	Electrical Safety IEC 60601-1 ed3.1C (2012-08-20) Electronmagnetic compatibility IEC 60601-1-2 ed 4.0 (2014-02-05)	Electrical Safety IEC 60601-1 ed3.1C (2012-08-20) Electronmagnetic compatibility IEC 60601-1-2 ed 4.0 (2014-02-05)
Sterile drape	must be outside of the sterile volume --> should not be covered	must be outside of the sterile volume --> should not be covered	must be outside of the sterile volume --> should not be covered	must be outside of the sterile volume --> should not be covered