



NaturalPoint OptiTrack Prime

NaturalPoint OptiTrack Primex is a series of high-resolution motion capture cameras designed for use in autonomous robotics, scientific research, special effects creation, filmmaking, gaming, military applications, and more. The camera's design allows for capturing the motion of any object pixel by pixel. The variety of available camera models allows for selecting the equipment that best suits a specific application, depending on the size of the monitored area, precision requirements, spee...

Model	OptiTrack Prime ^X 41	OptiTrack Prime ^X 22	OptiTrack Prime ^X 13/13W	OptiTrack Prime Color
Resolution	2048×2048	2048×1088	1280×1024	1920×1080
Native Frame Rate	180Hz	360Hz	240Hz	250 Hz
Latency	5,5ms	2,8ms	4,2ms	-
3D Accuracy*	+/- 0,1mm	+/- 0,15mm	+/-0,2mm or +/- 0,3mm**	-
Passive markers range	30m	21m	16m or 9m**	-
Active markers range	45m	30m	25m or 15m	-

Filter & Lens	- Adjustable focus and f-stop - Stock Lens: 51° × 51° FOV (12mm)	- Adjustable focus and f-stop - Stock Lens: 79° × 47° FOV (6.5mm)	- Filter Switcher included - Adjustable focus - Stock Lens: 56° × 46° FOV (5.5mm) - or 82° × 70° FOV (3.5mm)** - Optional Lens: 43° × 35° FOV (8.0mm)	- Adjustable focus and f-stop - Optional Lens: 75° × 47° FOV (6.8mm), 47° × 27° FOV (12mm)
Global shutter	- Default Speed: 0,25ms - Minimum Speed: 0,01ms - Maximum Speed: 4ms przy 250fps	- Default Speed: 0,25ms - Minimum Speed: 0,01ms - Maximum Speed: 2,5ms przy 360fps	- Default Speed: 0,25ms - Minimum Speed: 0,01ms - Maximum Speed: 3,9ms przy 240fps	- Default Speed: 0,25ms - Minimum Speed: 0,01ms - Maximum Speed: 1.8ms przy 500fps
Dimensions	12,6 x 12,6 x 13,2 cm	12,6 x 12,6 x 10,7 cm	6,86 x 6,86 x 5,46 cm	11,3 x 6,22 x 4,55 cm
Weight	1,36kg	1,26kg	0,32kg	0,33kg

* 3D accuracy referenced is typical for a 30'×30' (9m×9m) tracking area. Range is estimated using a 14 mm marker with cameras at an exposure of 800, gain of 6, and the lowest f-stop.

**Differences between the Primex 13 model and Primex 13W model.