

smartmove™

robotized TMS positioning solution



ant neuro
inspiring technology

smartmove hardware specifications

Robotic arm

The Omron Adept Viper arm is a 6-axis robot designed for a multitude of applications. The precision and physical range of the robot makes it ideal for applications requiring flexible and accurate positioning of the coil and complete control.

smartmove robot type	Viper 650	Viper 850
Reach limit	Radius 653 mm	Radius 855 mm
Inner limit	Radius 166 mm	Radius 166 mm
Payload max.	5.0 kg	5.0 kg
Repeatability	± 0.020 mm	± 0.030 mm
Mounting	Trolley	Trolley
Weight (approx.)	28 kg (without trolley)	29 kg (without trolley)
Environmental requirements	Ambient temperature 5 - 40 °C Humidity range 5 - 90 % (non condensing)	Ambient temperature 5 - 40 °C Humidity range 5 - 90 % (non condensing)
Power Requirements	200 to 240VAC: 10A, single- phase	200 to 240VAC: 10A, single- phase

Camera system

smartmove is based on the NDI Spectra™ camera system. This tracking hardware uses infrared light to track the position of the pointer or other tools. Each tool is equipped with multiple passive markers. The position and the orientation of the tools are inferred from the infrared light reflected back to the position sensor. Accuracy is guaranteed to be in the sub-mm range.

Accuracy	0.25 mm RMS
AAK	0.35 mm RMS
95% Confidence interval	0.5 mm
Maximum update rate	60 Hz
Operating temperature	10°C to 40°C
Measurement volume	Pyramid
Data communication interface	USB
Power requirements	100/120/220/240 V AC, 50/60 Hz, 0.5 A
Mounting	Wall or ceiling

Control unit

The control unit operates the robot arm and the optical tracking system. It also runs the software module.

Monitor	24" widescreen
Computer	High performance PC with 2GB RAM, fast graphics card, 2x Ethernet card, USB2-Port
Operating System	Windows

smartmove™ is intended to be used for research applications only. This products is not sold as Medical Device as defined in EU directive 93/42/EEC. The product is not designed or intended to be used for diagnosis or treatment of disease. ANT Neuro is part of the neuromotion group.

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