



Features

- Power and precision grip for BKIN KINARM End-Point Lab
- Handle rotation, with textured removable cover
- Grip and horizontal load force under each finger
- Excellent measuring accuracy
- Finger proximity sensors
- Zero offset button & digital input
- Analog interface to KINARM data acquisition system and Dexterit-E™

Applications

- Voluntary motor control research
- Optimal feedback control research
- Haptics research
- Virtual reality
- Rehabilitation

Overview	
Model	KINGRIP
Compatible device	BKIN KINARM End-Point Lab
Dimensions (H x L x W)	155 x 42 x 36 mm
Handle maximum load	500N
Handle maximum rotation torque	3Nm
Handle rotation range	±160°
Materials	Aluminum handle, brass contact surface, ABS cover
Interfaces	M10 male threaded handles Left and Right finger proximity sensors Zero offset button & digital input Analog force output

Precision grip measurement performance	
Finger contact surface (D x W)	∅30 x 25 mm
Sensor load range	F_{grip}, F_{load} 100N, ±50N
Sensor overload	F_{grip}, F_{load} 200N
Sensitivity	~80 mV/N
Noise	< 40mN _{RMS}
Linearity	< 0.3%
Precision	0.2% _{RMSE}

Signal conditioner	
Channels	8 channels: 2x LGF, 2x RGF, 2x LLF, 2x RLF
Analog filter	Bessel 8-pole low pass filter (cut-off frequency: 500 Hz)
Output	Connector: 9-pin Sub-D
	Range: 0 ... 10 V
	Type: Single-ended ground referenced
Auto-zero	Front panel button and isolated 5V digital TTL/CMOS
Power supply	115 V / 60 Hz / 200 mA or 230 V / 50 Hz / 100 mA
Dimensions	19in rack

Environment	
Operating / storage temperature	10 ... 40°C / -25 ... 40°C
Operating / storage humidity	30 ... 70% (non-condensing) / 0 ... 95% (non-condensing)
Air pressure	700 ... 1060 hPa (max 3000m altitude)
Ingress protection	IP 00