



“MAKE YOUR MOVE”...

THE CKAS V SERIES 6DOF PROFESSIONAL MOTION SYSTEMS ARE A REVOLUTIONARY FAMILY OF ELECTRIC MOTION SYSTEMS TARGETED AT THE FLIGHT, VEHICLE, MILITARY, MINING AND ACADEMIC RESEARCH INDUSTRIES.

SOME TYPICAL FEATURES INCLUDE:

- ▶ FULLY ELECTRIC 6DOF ACTUATION
- ▶ PAYLOADS OF 380KG, 650KG OR 1000KG AS STANDARD
- ▶ USB “PLUG AND PLAY” INTERFACE
- ▶ WASHOUT ALGORITHMS WITH INERTIAL ACCELERATION ONSET CUEING
- ▶ SAFETY FEATURES INCLUDING E-STOP, PARK ON PAUSE & ACTUATOR BRAKES
- ▶ EXTREMELY HIGH PERFORMANCE PER COST RATIO

CABIN IMAGE COURTESY OF SIMULATION CENTRE AUSTRALIA PTY LTD



CKAS V4 6DOF MOTION SYSTEM

THE CKAS V4 6DOF MOTION SYSTEM IS THE ENTRY LEVEL PROFESSIONAL MOTION SYSTEM, SPECIFICALLY DESIGNED FOR LIGHT WEIGHT VEHICLE AND FLIGHT SIMULATION, TYPICALLY CARRYING 1 TO 2 PERSONS. THE V4 IS MOST OFTEN USED IN AUTOMOTIVE SIMULATORS INCLUDING F1 RACING CAR AND DRIVER TRAINING SIMULATORS, AND ALSO IN ACADEMIC RESEARCH ENVIRONMENTS WHERE A PAYLOAD OF LESS THAN 400 KG IS TO BE CARRIED.

CKAS V7 6DOF MOTION SYSTEM

THE V7 6DOF MOTION SYSTEM IS THE IDEAL INTERMEDIATE FULLY FEATURED DEVICE WITH ENDLESS CAPABILITIES. WITH ENOUGH PAYLOAD TO CARRY MOST MODEST SIMULATORS, THE V7 IS THE ULTIMATE VALUE SOLUTION. THE MOST COMMON USES FOR THE V7 ARE FLIGHT SIMULATORS, MILITARY VEHICLE SIMULATORS, AND MINING INDUSTRY HEAVY VEHICLE SIMULATORS.

CKAS V10 6DOF MOTION SYSTEM

THE V10 6DOF MOTION SYSTEM IS THE HEAVIEST STANDARD DEVICE IN THE V FAMILY OF SYSTEMS, AND CAN CARRY A FULL TONNE OF PAYLOAD. THE V10 CAN BE USED ON MULTI PERSON SIMULATORS, INCLUDING

FULL FEATURED FLIGHT SIMULATORS AND OTHER MILITARY AND INDUSTRY VEHICLES.

INTERFACE

ALL CKAS 6DOF MOTION SYSTEMS ARE USB PLUG AND PLAY AND COME WITH THE HIGHEST FIDELITY WASHOUT FILTERS AND INERTIAL ACCELERATION ONSET CUEING ALGORITHMS. ALL MOTION SYSTEMS DIRECTLY SUPPORT MICROSOFT FLIGHT SIMULATOR, X-PLANE, rFACTOR AND GENERIC CLIENT ACCELERATION DATA OVER UDP FOR ANY APPLICATION. THESE MOTION SYSTEMS ARE TRULY **"PLUG AND PLAY"**

SAFETY

ALL MOTION SYSTEMS COME WITH EXCEPTIONAL SAFETY MECHANISMS, INCLUDING "PARK ON DATA LOSS", E-STOP AND "FREEZE ON POWER DROP".

CUSTOM MOTION SYSTEMS

CKAS MECHATRONICS IS THE PREMIER MOTION SYSTEM MANUFACTURER WITH ENORMOUS INTELLECTUAL PROPERTY IN 6 DEGREE OF FREEDOM ARCHITECTURES. WE CAN DESIGN AND MANUFACTURE THE MOTION SYSTEM OF YOUR SPECIFIC NEEDS. CONTACT US FOR MORE INFORMATION.

DEVICE	CKAS V4 6DOF	CKAS V7 6DOF	CKAS V10 6DOF
ARCHITECTURE	6 DEGREE OF FREEDOM (6DOF) HYBRID STEWART TYPE		
ACTUATION	FULLY ELECTRIC		
MAX WIDTH	2250 MM	2300 MM	2500 MM
MAX LENGTH	2000 MM	2050 MM	2250 MM
ZERO HEIGHT	925 MM	925 MM	950 MM
PARKED HEIGHT	775 MM	775 MM	800 MM
POWER REQUIREMENTS	220 - 240 V @ 12 AMP	220 - 240 V @ 18 AMP	220 - 240 V @ 25 AMP
APPROXIMATE WEIGHT	250 KG	320 KG	500 KG

DISPLACEMENT X	±150 MM
DISPLACEMENT Y	±150 MM
DISPLACEMENT Z	±150 MM
DISPLACEMENT YAW	±24°
DISPLACEMENT PITCH	±24°
DISPLACEMENT ROLL	±24°
MAX FREQUENCY	100HZ CONTROLLER
MAX ACCELERATION	±0.5 G

MAX PAYLOAD MASS	380 KG	650 KG	1000 KG
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ALL PARAMETERS SUBJECT TO CHANGE WITHOUT NOTICE

