The BRUNNER CLS-E Active Force Feedback Joystick meets
the highest demands of Enthusiast flight simulation. As the
newest member of our Control Loading System portfolio
of leading drop-in devices, the CLS-E Joystick integrates
perfectly into many Flight Simulation environments. Be-
side Aircraft Solutions, the BRUNNER CLS-E Joystick finds
perfect application for military ground vehicles or any other
application where a modern stick solution is used for system
control. BRUNNER CLS-E Joystick provides excellent quality,
highest fidelity and unique durability at an unmatched
price-performance level.
The high dynamic brushless DC motor technology and
BRUNNER’s Active Control Loading Technology reacts with
realistic movements to even finest inputs and offers an
excellent artificial feeling!

The BRUNNER CLS-E Joystick offers different grip options.
Beside a Plug&Play TM HOTAS and VPC Mongoos T-50 grip
interface (grip not included), it is available with an A320 grip
or a BRUNNER JET grip.

Additionally, CLS-E Joystick simulates and represents various
functions like autopilot and trim and allows easy and fast
installation and setup through a real Plug- and Play capability.
Enabled by our CLS2Sim software-environment, the CLS-E
Joystick communicates easily with commercially available
flight simulation software such as X-Plane, M-FSX and
Prepar3D®.

Any third party simulation solution connects via a simple
TCP/IP or UDP remote interface protocol.
CLS-E JOYSTICK.

Features.

- BRUNNER Drop-in: fully integrated, with built-in control unit and 36VDC power inlet (ext. power supply included)
- Simulated effects: engine, ground, turbulence, real trim, autopilot, stall etc.
- Pre-Configured dynamic profiles available (e.g. A320)
- Compatible to TM HOTAS grip and VPC Mongoose T50 grip, or available with preinstalled A320 or BRUNNER JET grip
- Plug & Play (USB or CAN), Ethernet via optional high-speed E2CAN gateway
- Long life brushless DC technology
- Contactless high-resolution position feedback
- Reliable, smooth, backlash and maintenance free design
- No fan, very quiet, highly efficient
- Direct support for X-Plane, FSX, FSX Steam edition, Prepare-3D with BRUNNER CLS2SIM SW, X-Plane plugin for Windows, Linux and Mac
- Swiss Made
- 2 Years warranty

Specification.

Peak Force Pitch and Roll 4.2 Nm / 3.1 ft-lb
Travel Pitch 20.5° (HOTAS/JET), 16° (A320)
Travel Roll 20.5° (HOTAS/JET), 19° (A320)
Grip HOTAS Interface (w/o grip) A320 or BRUNNER JET grip
Power 300 W peak (no fan)
Operating Voltage 36 VDC
Size 220 x 145 x 143 mm
8.66 x 5.7 x 5.63 in
Weight 3.5 kg / 7.7 lb (w/o grip)
4.5 kg / 9.9 lb (with grip)

Dimensions.