Data Sheet GazeDriver V001

Function and use

GazeDriver V001 is an eye control device used to control an electric wheelchair.

GazeDriver is intended to be used in combination with standard electric wheelchairs to control the movement of the wheelchair and communicate via tablet, phone, or PC. A feedback based on light supports the user in navigating.

GazeDriver is intended for use in a home/care environment by people with physical disabilities who can control their eye movements.

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Technical Specification

Environmental operating temperature range	+5 °C to +40 °C
Storage temperature range	-25 °C to +70 °C
Enclosure class	IP24
Compatible wheelchair driving controllers' manufacturers/models	OMNI SPECIALITY CONTROL INTERFACE OMNI2 SPECIALITY CONTROL INTERFACE Dynamic Controls DLX-IN500-A and either a DLX-REM400-B or DLX-REM500-A
Interface and power connector	D-Sub 15 (GazeDriver module) D-Sub 9 (Wheelchair interface) M5 ring terminal (Battery connection)
Input	18 V - 34 V d.c. 30 W
Size GazeDriver Module	Length: 300 mm Width: 130 mm Height: 80 mm
Size Splitter Module	Length: 152mm Width: 46 mm Height: 30 mm
Weight of GazeDriver Module	1180g
Weight Splitter including all cables	405g
Intermediate power supply (if used)	18-34 V d.c. minimum 30 watts.
Fuse specification	Cartridge 1.6 A, 250 V, slow blow, 6x32 mm (Recommended Littelfuse 326 series)
Wheelchair battery charger	Must provide at least 1 MOP (means of protection) from supply mains
The range of the eye tracker	50 cm - 60cm (from user eyes)
Radio frequency range	2.4 GHz / 5 GHz Maximum output power: +18.5 dBm
Electrical Safety Classification	Class II / Internally powered*
ISO 7176-14	This product meets the requirements of ISO 7176-14
ISO 7176-14 – forces	No force needed by the user

GazeDriver meets the requirements of:
The Medical Device Regulation 2017/745; the *ROHS Directive,* the *REACH Regulation*, the *WEEE Directive*; and the following standards: *ISO 13485, ISO 14971, IEC 62366-1, IEC 60601-1, IEC 60601-1-6, IEC 60601-1-2, IEC 60601-1-11, IEC 62304, IEC 62354, ISO 7176-14, ISO 20417, ISO 15223-1, ISO 780, ASTM D4169-22.*