G2Nav
Development kit

A high-performance ground control station with two 21.5 inch screens, full QWERTY keyboard, multiple joysticks, and input devices.

A dynamic ground control station for the operation of professional robotic solutions across various industries, sectors, and technologies. The G2Nav offers performance, durability, and a modular platform enabling a wide range of customizations. The development edition enables you to test and verify your requirements before settling with a production configuration.

The G2Nav is a dynamic ground control platform offering greater control in scenarios where mobility isn't the only driving factor. With the G2Nav you get a ground control platform which is easy to transport and easy to mount with all the control options that you would expect from a professional ground control platform.

The G2Nav comes with two 21.5 inch screens, a built-in keyboard, multiple configurable buttons, joysticks, and switches. All input devices are connected to an Intel-based computer running on Microsoft Windows or a Linux-based operating system.

While deciding on a production version, you will have great freedom in how the ground control station will be configured. Configuration options include joysticks, buttons, firmware, software, and engraving.

The development edition comes with a standardized layout enabling you to test and verify which configuration will meet your requirements. The development edition is delivered with Microsoft Windows but with the ability to be reinstalled with other operating systems. The input devices will be identified as regular HID devices inside Microsoft Windows making it easy to work with. As part of the evaluation process, we can supply you with code samples and assist you with the integration.

All of our ground control platforms use standard interfaces (HID devices) enabling easy integration with your software. We do, however, offer technical support and assistance with custom software to make your integration as swift and possible.

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Technical specifications

Computer	CPU Intel® CoreTM i5-6200U SoC Dual Core 2.3GHz up to 2.8GHz RAM 8GB DDR4-2400 Storage 120 GB SATA III SSD (more is optional*) Graphics Intel® HD520 Wireless Dual band WiFi and bluetooth OS Windows or linux flavour of choice	**G2Nav Human interface**	
		Left side	Hall-effect T-bar fader controller; labeled throttle Cluster of 8 switches, 6 toggles, 1 safety, 1 push button
		Center	Keyboard with US QWERTY layout** and numpad Mouse-trackpad or trackball* Storage compartment
G2NAV Electrical interface		**Right side**	APEM HF series joystick with two pushbuttons MEGATRON SpaceMouse® Cluster of 4 switches, 5 toggle, 1 pushbutton. Big safety switch Keyswitch for power on/off
Left side	Control link interface Ethernet 2 USB 2.0 ports		
Center	2 USB 2.0 ports	**G2NAV Display**	
Right side	Universal mains AC input DC 12-28V power input	**HID**	Resistive touch, works with gloves and wet hands
		Resolution	Full HD: 1920 x 1080
Power supply requirements		**Viewing angle**	170 degree horizontal viewing angle
AC	Universal mains, 50/60 Hz 100-240VAC up to 400W	**Backlight**	Up to 1500 nits
DC	12-28 VDC up to 400W, surge protected and reverse polarity protected.		

*) Optional (might increase leadtime)

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