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Product photographs:
http://www.opto22.com/images/pressroom/4352_groov_Box_lft_facing.png
http://www.opto22.com/images/pressroom/4352_groov_Box_lft_facing.tif
http://www.opto22.com/images/pressroom/4352_groov_View_on_iPad.png
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New Browser-based *groov* from Opto 22 Brings Scalable HMIs to PCs, Smartphones, Tablets, and Other Mobile Devices

Using only a modern web browser, build, deploy, and view simple and effective operator interfaces that run on almost any device.

Temecula, CA – March 13, 2013 – Industrial automation manufacturer Opto 22 has announced *groov,* a new way to build, deploy, and view simple, effective, and scalable operator interfaces to monitor and control systems and equipment using computers and mobile devices. Using only a modern web browser, *groov* securely lets industrial automation end-users, system integrators, machine OEMs, building managers, technicians, or any authorized person quickly build and deploy browser-based interfaces for automation, monitoring, and control applications. These operator interfaces can then be viewed on almost any computer or mobile device regardless of its manufacturer or operating system, including PCs, tablets, smartphones, and even smart high-definition televisions. *groov* is intended to augment traditional human-machine interfaces (HMIs) by making important information available at any time and in any location.

groov reduces the time, complexity, and cost usually associated with mobile HMI development by operating completely within a modern web browser and running on a secure and industrially hardened network appliance. *groov* offers a simple yet flexible environment for developing operator interfaces with zero programming, and requires no per-seat runtime or viewing licenses. Overcoming the biggest challenge in developing for multiple screen sizes,

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groov automatically and gracefully scales all screens, page objects, and gadgets, allowing *groov* HMIs to be viewed and manipulated from virtually any device of any screen size.

groov works with modern web browsers like Internet Explorer, Firefox, Chrome, Safari, or Opera running on operating systems including iOS, Android, Microsoft Windows, Mac OS, and Linux. *groov* benefits from the capabilities of these browsers by using the latest web standards like HTML5, CSS3, and SVG. And while many competing technologies depend on additional software or browser plug-ins like Flash, Silverlight, or Java to work, *groov* requires no additional software or plug-ins, simplifying deployment.

Networking and Interface Development

The heart of the *groov* system is a secure industrial appliance called the *groov* Box, which runs *groov* software. All network communication between a web browser and the *groov* Box uses an encrypted secure sockets layer (SSL) over an HTTPS connection. The *groov* Box does not respond to any other communication methods on any other ports.

groov connects to Opto 22 SNAP PAC automation systems and OptoEMU energy monitoring products over a separate and segmented wired or wireless Ethernet network, adding a secure barrier for control systems. Support for the OPC-UA protocol is planned in 2013 and will allow *groov* to communicate with systems from other manufacturers that offer an OPC-UA server.

The simple and flexible development environment, *groov* Build, dramatically reduces the time needed to build interfaces when compared to traditional HMI screen building tools. *groov* Build includes a library of scalable, touchscreen-ready gadgets: gauges, buttons, range indicators, text entry, sliders, and trends. Images and real-time video from network IP cameras—also fully scalable—can also be added. Designed to support HMI best practices, *groov* Build includes the tools necessary to build high-performance, intelligible information and control screens like those defined by the *High Performance HMI Handbook* (Hollifield et al.) and the ASM (Abnormal Situation Management) Consortium Guidelines, *Effective Operator Display Design*.

groov Components

The *groov* system includes the *groov* Box, *groov* Build, *groov* View, and the optional apps *groov* View for iOS and *groov* View for Android.

- *groov* Box is a small-footprint network appliance designed for industrial environments; it interfaces with control systems and runs the *groov* software. The *groov* Box includes three separate, independent network interfaces: two 1-Gbps Ethernet interfaces and one 802.11b/g/n wireless interface.

- *groov* Build is the software used to create an interface in a browser.

- *groov* View is the software used to run an interface in a browser.

- *groov* View for iOS and *groov* View for Android are optional free apps that display the operator interface full screen and without browser menus. These apps make an interface look like a native app for the device, and are ideal for mobile devices used in kiosk applications.

Pricing and Availability

Opto 22's *groov* will be available in April 2013 at a suggested list price of $1995 USD. To pre-order, contact Opto 22 Pre-Sales at 951-695-3000 or toll free at 1-800-321-6786. For additional information, visit groov.com.

About Opto 22

Opto 22 develops and manufactures hardware and software for applications involving industrial automation and control, energy management, remote monitoring, and data acquisition. Designed and made in the U.S.A., Opto 22 products have an established reputation worldwide for ease of use, innovation, quality, and reliability. Opto 22 products, which use standard, commercially available networking and computer technologies, are used by automation end-users, OEMs, and information technology and operations personnel in over 10,000 installations worldwide. The company was founded in 1974 and is privately held in Temecula, California, U.S.A. Opto 22 products are available through a global network of

distributors and system integrators. For more information, contact Opto 22 headquarters at

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