

IMAGE IS EVERYTHING[®] RAYVEL[®] HOLOGRAPHICS

HOLOGRAPHIC PRODUCTS AND SERVICES

14 Bridge Street • Montville, CT 06353 860-848-7422 www.rayvel.com

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Rayvel[®] to Supply Holograms to HoloTouch[®] Products

Rayvel has been chosen to produce the holographic images for HoloTouch touchless human-machine interface actuation and control systems. HoloTouch products empower operators to enter commands and data into a wide range of electronic equipment by simply passing a finger through holographic images of what would otherwise be the keys of a keypad or keyboard, appearing to float in the air at a convenient location in front of the equipment. An infrared sensor scans the plane of those images to detect the intrusion of a finger into the desired portion of those images, identifies which number or symbol has been selected and transmits that selection to the equipment's internal software, much the same way pressing a button on any ordinary keypad would. HoloTouch interfaces provide output to USB, serial and other PC ports as well as relay output to other devices such as PLCs.

There are no practical barriers to using its holographic actuation and control technology to improve and enhance many types of electronic equipment, such as automotive, audio-visual, banking, factory-floor, gaming, kiosk, leisure, medical, military, personal and home electronics and toys, just to name a few.

HoloTouch solves many problems posed by conventional, tactile keypads and keyboards, particularly those regularly subject to contaminants, customer abuse, dirt, moisture, temperature fluctuations and shock. Some of the benefits of interfaces using HoloTouch patented holographic actuation and control technology are:

- human-friendly, easy-to-use interfaces that provide comfortable, reliable operation of equipment where conventional, tactile interfaces sizes have shrunk below normal finger size
- no wear with repeated operation because HoloTouch interfaces have no moving parts to fail under normal or even heavy use
- HoloTouch interfaces are cost-effective, both initially and over time
- sterile operation—whether in healthcare settings or high-traffic consumer applications such as kiosks, HoloTouch interfaces neatly bypass contamination issues because nothing need be touched to use them
- Added security can be provided for ATM type applications by restricting the viewing angle of the holograms so they are only visible to the user directly in front of the machine

"HoloTouch systems are a brilliant application of holographic technology," comments Joe Ciaudelli, President of Rayvel. "We are honored that they have chosen Rayvel to supply the critical component for their products. We look forward to a long, mutually beneficial relationship with HoloTouch, Inc. (www.holotouch.com)."

HoloTouch President and founder R. Douglas McPheters adds, "since a supplier with expertise in precision holography as well as the understanding of the logistics to supply a commercial product with consistent quality is essential to our growth, we are looking forward to working with Rayvel."



Sterile operation



Controls projected at a convenient location



BeamOne "Plug&Play" interface

“Then Something Clicked” Rayvel Produces P-O-P display for 750 stores

Pass & Seymour/Legrand, a leading manufacturer of electrical components, needed to promote their Plug Tail™, an AC receptacle system with “plugged in” termination accomplished in a matter of seconds as compared to receptacles wired in the conventional manner. Installation as a result is more than twice as fast. Pass & Seymour/Legrand wanted to convey the function and advantages of this novel product in a cost effective in-store ad. The solution:

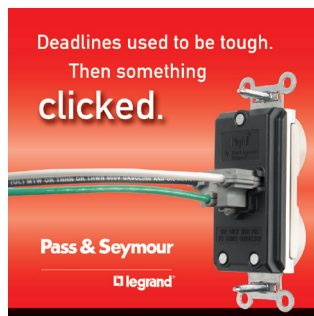
a “3 flip” lenticular hanging poster. As customers in the store walk by, they see the Plug Tail move towards and then mate to its AC receptacle. “Having point-of-purchase (POP) signage with visual motion was critical in communicating our client’s message,” comments project manager Marc DiFrancesco of Paradigm Graphic Solutions. “We were pleased that Rayvel was able to deliver the project quickly and within the budget.”



Front phase 1



Front phase 2



Front phase 3



Back

Rayvel Educates

It is not only important to conduct research and development and produce products, but also to educate others so that they may fully appreciate the potential of holographics. To this end, Rayvel has accepted invitations to lecture at area colleges and universities on Holographic Techniques and Advanced Applications.

Topics covered included:

- Holographic Optical Elements (HOE)
- Optical Networking
- Lidar
- Biometrics
- Data storage

Rayvel also offers hands-on training at the Rayvel HoloCenter in New York City, taught by Sam Moree, a leading expert in the field with over 25 years of experience. Two levels of classes are offered: “Level I Holographics” and “Advanced Holographics”. Both levels are offered as 2 full day or 4 evening classes.

Level I Holographics:

- Basic principles
- Hologram Types
- Setting up a lab
- Interferometry
- In-Line single beam holograms
- Dual beam holograms: H1 transmission hologram and transfer to an H2 reflection hologram

Advanced Holographics:

- Composing to get the most from the medium
- Color Control
- Pulse laser holography
- Rainbow transmission holograms
- Intro to Moving Video Hologram (MVH), aka stereogram

We Have Brains

We have a series of holograms of a real human brain, the only true 3D high resolution photos of their kind known to exist. Six different angles are available. These holograms have superb, true parallax: the viewer sees around the recorded image as they look at it from different angles. They are truly a fascinating educational tool.



All Access

Rayvel offers credentials for touring productions, corporate, and government facilities. Identification and security passes that include holograms provide unsurpassed protection against counterfeiting since holograms can not be duplicated except from their original master.



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Laboratories: New York • Uncasville
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