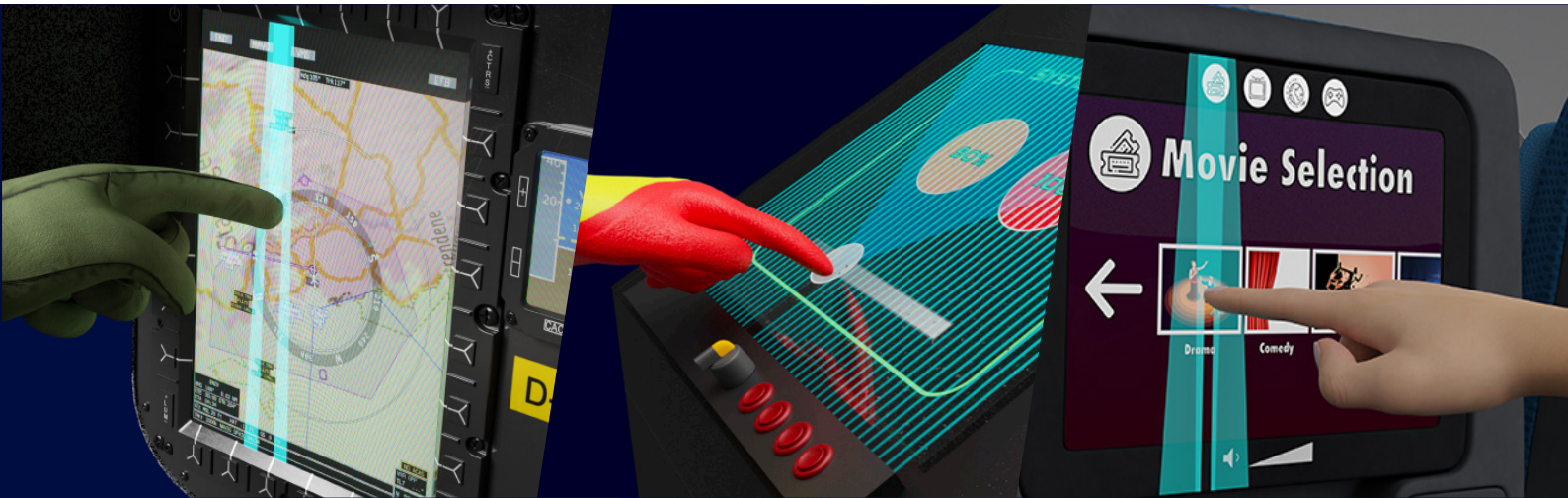


# Infrared Blocking Technology for Rugged Environments

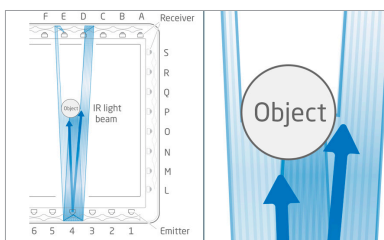


## Neonode is the Go-to Company for Advanced Infrared Touch Control

Since the company was established in Sweden in 2001, Neonode's technology has been deployed in more than 75 million products worldwide. Holding more than 120 patents, Neonode has refined its technology while working with the world's best-known Fortune 500 companies in the consumer electronics, office equipment, medical, avionic, and automotive industries.

Conscious of the benefits that IR touch brings to the most demanding operating environment, Neonode is now focusing its efforts on military, avionic and industrial use cases.

## Key Benefits



Neonode IR touch technology can be customized to address the most challenging applications and to overcome the shortfalls of existing technologies such as PCAP and resistive touch.

It supports multi-touch, offers high resolution, can operate in a wide range of temperatures, is compatible with thick gloves and can mitigate the effect of environmental lighting conditions.

Benefits	Details
Night Vision (NVIS) Compatibility	Can be designed to operate outside the operating range of Night Vision Imaging Systems.
Redundancy / Fault Tolerance	Can co-exist with other touch technologies such as PCAP or Resistive to provide fault tolerance.
Sunlight Readability	Offers the highest level of display contrast ratio due to the absence of a reflective layer in the cover glass. Compatible with outdoor high-ambient-light environments.
Electromagnetic Interference and Susceptibility (EMI / EMS)	Very low EM radiation and very low EM field susceptibility. IR touch's only point of EMI and EMS is at the PCA, where good design practices greatly reduce both susceptibility and emissions.
High Scratch Resistance	Requires no cover glass overlays, thus scratch resistance is equivalent to the cover glass scratch resistance.
Surface Contamination Tolerance (particles, dust, water)	Sensor FW frequently self-calibrates to effectively "calibrate out" signal strength variations resulting from cover glass surface contaminants and component degradation. Sensor FW can be set to ignore objects smaller or larger than expected.

## Working With Us



Neonode works with its customers to design our patented algorithms and trade secrets into the next generation of rugged touchscreen displays.

Neonode's expertise covers optics, electronics, electrical and mechanical design. Typical R&D engagements include activities such as workshops, simulations, design, review, prototyping, production development and production support.

## Inquiries

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