

# EMI/RFI Window Applications

## Shielded window applications.

In addition to the rapid service polycarbonate range, shielded windows can be custom designed in glass, polycarbonate or acrylic with a variety of display enhancement features. Examples of this are:

### EMI Shielded windows for rooms & chambers

Offered in large glass lamination, these windows are supplied with a mesh extension over a neoprene gasket. This allows the window to form a compression contact to the metal window frame or to be bonded directly to the shielding of the wall.

A single window provides shielding of 80dB at 32.5 MHz, and a double-glazed arrangement with two windows provides in excess of 100dB.

### Thermal Windows

Using a proven design for laminated transparent heated windows based on a high transmission, low reflectance ITO coating on a glass substrate, these laminates can also include other features such as EMI shielding, AR coatings and privacy filters.

The recommended power supply is 24vdc and 1-2 amps. The windows are usually laminated with the ITO heater surface to the inside to protect the coating and ensure even heat distribution.

### Medical Test and Measurement Instruments

A range of high definition windows for test and measurement instruments can be made in glass or plastic with a variety of surface treatments including silk-screen printing. The shielding elements are optimized for EMI attenuation and optical performance.

### Windows for aircraft cockpits

Multifunctional windows that deal with sunlight readability, viewing angles, EMI, impact resistance, environmental and mechanical conditions consistent with military and commercial aircraft applications are available in a variety of substrates and even complex shapes. Windows for space qualification and advanced avionic applications are also available. Experience in night vision requirements is also a part of our capabilities.

### Touch screen laminates

Ruggedized touch screens with glass or polycarbonate that can incorporate circular polarizers for contrast enhancement, privacy filters for control of viewing angle, metal mesh or ITO coatings for EMI and transparent heaters for defogging and /or heating of the flat panel display. Typical design in both resistive and capacitive technology is available alongside new cutting edge breakthroughs.

### Public information displays

Windows to enhance the performance of displays in the wide variety of ambient conditions encountered. Properties that can be included are impact resistance, sunlight readability and EMI shielding. Kiosks, electronic signs in a number of environmental circumstances, portable hand-held devices, cell phones and electronic gaming are all areas of growing demand for shielding windows.