

TISO Console Family - Dual Display Console

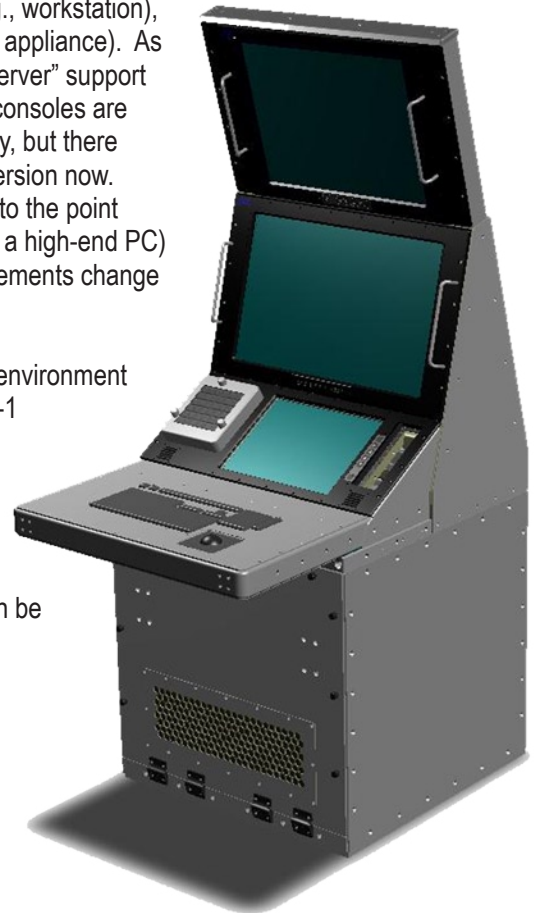
The TISO Console Family (TCF) is constructed from a modular set of components that can be built up into different console configurations. The TCF modules include a console base unit, a "kiosk" unit, various display units that differ in the number/position of their flat panels, and a bullnose unit with numerous customized layouts for user interface devices (e.g., keyboard, mouse, etc.). A console base, two flat panel displays and bullnose with a comms unit, touch screen, and keyboard/trackball are shown for the Dual Display Console (DDC).

All TCF consoles use standard wall power, which may include battery backup, and are air cooled via an air vent in the door (or vents in the bullnose), in conjunction with exhaust fans behind the display unit. Modularity of the console family makes assembly/disassembly possible during installation or maintenance, as required. Maintenance of the 19" rack electronics is from the front via a quick release door, while all cabling is to the back. At least 24" of maintenance access is available either through the front door after removal of the console chair or through the touch screen/lower flat panel and at least 8" of cable way space is available in the back for cable runs.

The DDC's standard base is hard mounted to the deck and contains an internally isolated 19" standard EIA rack that provides up to 10 RU of electronics space, 20" deep. The display unit assembly consists of an upper module that sits on top of the lower module which is attached to, but separate from base unit, and these assemblies can be used to mount two flat panels up to 24" wide in a vertical direction. The configurable bullnose unit assembly is attached to, but separate from the base, and is directly connected to the display unit assembly. This DDC's external dimensions are 26" wide by 38" deep by 67" high, with the bullnose positioned at 29" high.

This console family is targeted to support a "thick client" (e.g., workstation), "thin client" (e.g., PC-like), or "ultra thin client" (e.g., network appliance). As such, these clients may still need some type of backroom "server" support where the majority of the applications reside. Multi-display consoles are the workhorse console of surface and subsurface Fleet today, but there is a need for a smaller, cheaper, and much more powerful version now. Processing power and network connectivity have increased to the point where a small multi-processor workstation (or possibly even a high-end PC) can meet this need today with room for growth as the requirements change in the future.

All of these TCF products are designed for the harsh Naval environment to meet MIL-S-901D Grade A shock tests and MIL-STD-167-1 vibration tests. The console base, the display unit modules, and the bullnose unit have integrated shock isolation to help prevent damage to the internal electronic assemblies, displays, and various user interface devices during operation and deployment in the Fleet. Additionally, the various components that are installed within any console can be ruggedized as required.



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