



# TCM

## Tactical Control Module for Integrated Soldier Systems

### Features

- Suitable for Left or Right Hand Use
- Acts as a Computer 'Mouse'
- Software Configurable Buttons
- PTT Interface
- Rugged and Lightweight
- Sealed to IP67
- Map-Reading LED
- HMD Drive Electronics
- Integrates Operation of Radios, Sensors and Systems
- Control ISTAR Receivers, UAVs, via a Simple Hand Grip

### Description

The TCM brings together the control of various soldier worn systems through a single hand grip device.

Designed primarily to interface with the popular StrikeHawk hand-held remote viewing terminal, the user can utilise the built-in joystick to navigate a menu via an on-screen-display, which can be viewed by a Helmet Mounted Display (HMD) or wrist mounted monitor. This allows the user to specify the desired frequency, search for available ISTAR assets (e.g. POD or UAV) or select a preset channel. Additionally, the TCM can be simultaneously connected to a computer, allowing the user to view and record imagery received from the StrikeHawk and interface with the computer in a normal fashion, whereby the joystick and software configurable buttons act as a "mouse", all of which can be viewed on the HMD since the TCM contains the appropriate drive electronics for various HMDs.

With a flexible design architecture, the TCM can be configured for a multitude of applications. Internally it contains HMD drive electronics, a USB hub, a serial data interface, a video to USB encoder and a general purpose relay. The unit also contains an LED, a joystick and six software defined buttons.

The multi-function TCM can be programmed to control virtually an system used by either a mounted or dismounted soldier, such as Driver's Vision Enhancement, Rear View camera and Remote Weapon Systems or simply a PTT radio or GPS receiver.

### Accessories

- Helmet mounted display
- Wrist mounted monitor
- Rugged computer
- Wrist mounted keyboard
- StrikeHawk® video receiver
- User defined cables
- Power pack

## Specifications

### User Controls (Software Designated)

4 individual "finger" push buttons (can be programmed for "chord-keying")	Mouse left/right or enter/cancel Shift/function keys LED button PTT control
8 axis thumb joystick	Mouse/OSD navigation
2 individual "thumb" buttons	HMD brightness up/down
LED map reading light	Map reading/power indicator

### Connections

7Way Fisher Connector (Sealed to IP67): RS232 serial data Composite video input (NTSC/PAL) 9-36vdc input	Interface to StrikeHawk® video receiver/remote camera/GPS receiver
12Way Fisher Connector (Sealed to IP67): SVGA input USB	PC interface
19Way Fisher Connector (Sealed to IP67): HMD interface	HMD interface
19Way Fisher Connector (Sealed to IP67): Auxiliary connector	PTT control/basic relay contacts

### Dimensions

148mm x30mm x90mm  
(without cables)