



# OperatorControlUnit



## HARDWARE:

32-bit Transmeta Crusoe CPU (500MHz)  
 128Mbytes RAM  
 128Mbytes Flash/External CF Slot  
 SVGA 800x600 16 bit display  
 2axis/4 button joystick input  
 NTSC video input  
 802.11b wireless communication  
 H.263 Video Codec  
 Ethernet Tether

## WEIGHT:

Hand controller: 3 lbs 3 oz  
 Vest: 6 lbs 12 oz

## SIZE:

Hand controller: width: **11.9"** - HEIGHT: **6.0"** - DEPTH: **3.5"**  
 Vest: X-Large

## SOFTWARE:

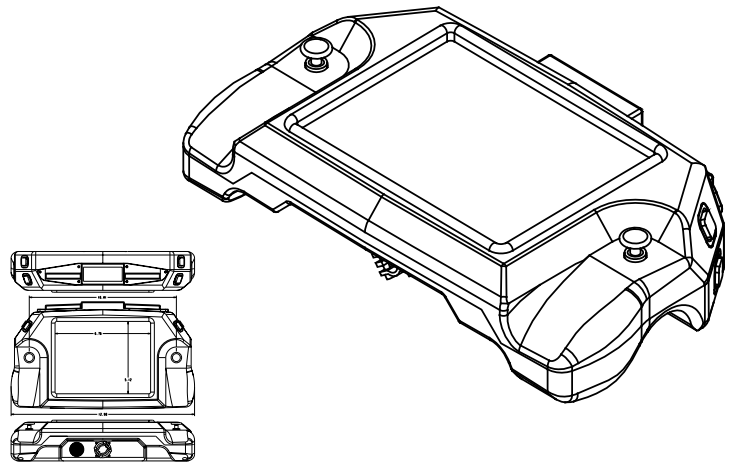
Linux based custom control software

## CURRENT FEATURES:

Light-weight custom GUI toolkit supports graphics, menus, status indicators overlaid on video proprietary network communication

## DEVELOPMENT FEATURES:

Digital Elevation Map (DEM) data overlay  
 Digital Line Graph (DLG) map overlay  
 JAUGS v3.0 Compliance  
 Internal GPS/INS option



## FUNCTIONALITY

Currently the system allows tele-operated control of an inhouse demonstration platform using our own custom networking protocol. We have an extensible user interface that allows for rapid prototyping of new user interfaces. The system is designed to detect functionality of a remote platform at connection and populate the user menus accordingly.

We are currently in the process of developing an in house JAUGS library. Our library will be used to create a demonstration platform for the OCU to control under the JAUGS protocol. Also we are in the process of building a small portable map viewing library. It will allow us to view topographical and feature data on-screen.

>>AVAILABLE MARCH 2003<<