



MuSIC "Triple" Instrument Control Unit

MuSIC System

Multiple Sensor Instrument Controller

Simultaneous VNIR, SWIR, and Thermal Imaging

Triple Hyperspectral
Sensor Operation:
CASI, SASI, & TASI

Full Diagnostic Suite

Reduced Mobilization &
Data Acquisition Costs



MuSIC System

Multiple Sensor Instrument Controller

Three Spectral Regions, One Control System

The optional MuSIC system permits the simultaneous operation of up to three ITRES hyperspectral imaging sensors using a single Instrument Control Unit (ICU), sunlight-readable video display (high altitude version available), KVM¹ switch, and software controller.

¹ Keyboard, Video, Mouse (Hardware switch used to alternately display activities of each sensor processor on the single monitor display).

MuSIC System Compatibility

Works with all ITRES imaging sensors (CASI-1500/550, SASI-600, TASI-600, TABI-320).

Accepts precision position/attitude input from POS AVTM, C-MigitsTM

Software Features

- Simultaneously control and monitor 3 sensors using WindowsTM-based tabbed interface
- Simultaneous 3 sensor image display
- Real-Time (RT) Sensor Health/Signal Plots
- High Visibility RT Status lights (GPS, PPS, ILS, Sensor Health)
- System Status Window
- Built-in Flight Calculator



Instrument Control Unit Features

- Three Networked, Synchronized Processors
- Ruggedized, Rack Mountable, Airborne-Designed
- Ethernet-ready Remote Diagnostic Capability
- Data Recording to Swappable SCSI HD Units (Up to Two per Sensor)

Dimensions, Weight, & Power

MuSIC ICU: W 48.3 H 35.6 D 52.6 cm (30 kg)

Power: Complete three-sensor system with MuSIC system: +24 to 32 VDC, 50 A circuit required. (Assumes CASI-1500, SASI-600, TASI-600, POS AVTM).



Signal Plots:

CASI (VNIR)

TASI (TIR)

SASI (SWIR)

Status Lights

Real-Time Image Displays:
(Top to Bot: CASI, TASI, SASI)



www.itres.com

All ITRES imaging sensors are calibrated to a traceable standard. Data simulations provided for illustrative purposes. These specifications are current at time of writing and are subject to change without notice. Document #U10039-00 Revision date: April 2006 ©2006 ITRES Research Limited.