



Flight Inspection Systems

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Television Positioning System Video Capture Subsystem/General Purpose Computer



NXT has developed a ruggedized Television Positioning System (TVPS) Video Capture Subsystem Computer that can also be used as a general purpose computer for various other flight inspection tasks such as specialized data collection, file server, or inspector's control and display unit.

Computer Features:

The TVPS Video Capture Subsystem Computer offers the following:

Line Scan Camera Interface

Camera Power Supply

Automatic Runway Threshold Detection (AutoFix) Algorithm

Single Board Computer

- Can run standard Win32 applications

Windows NT Embedded Operating System

- Allows for custom configuration of Windows NT
- Minimizes footprint on solid state disk drive
- Software can use standard Windows NT device drivers and development tools

Solid State 256 MB Hard Drive

- Expandable

Easy access to connectors for:

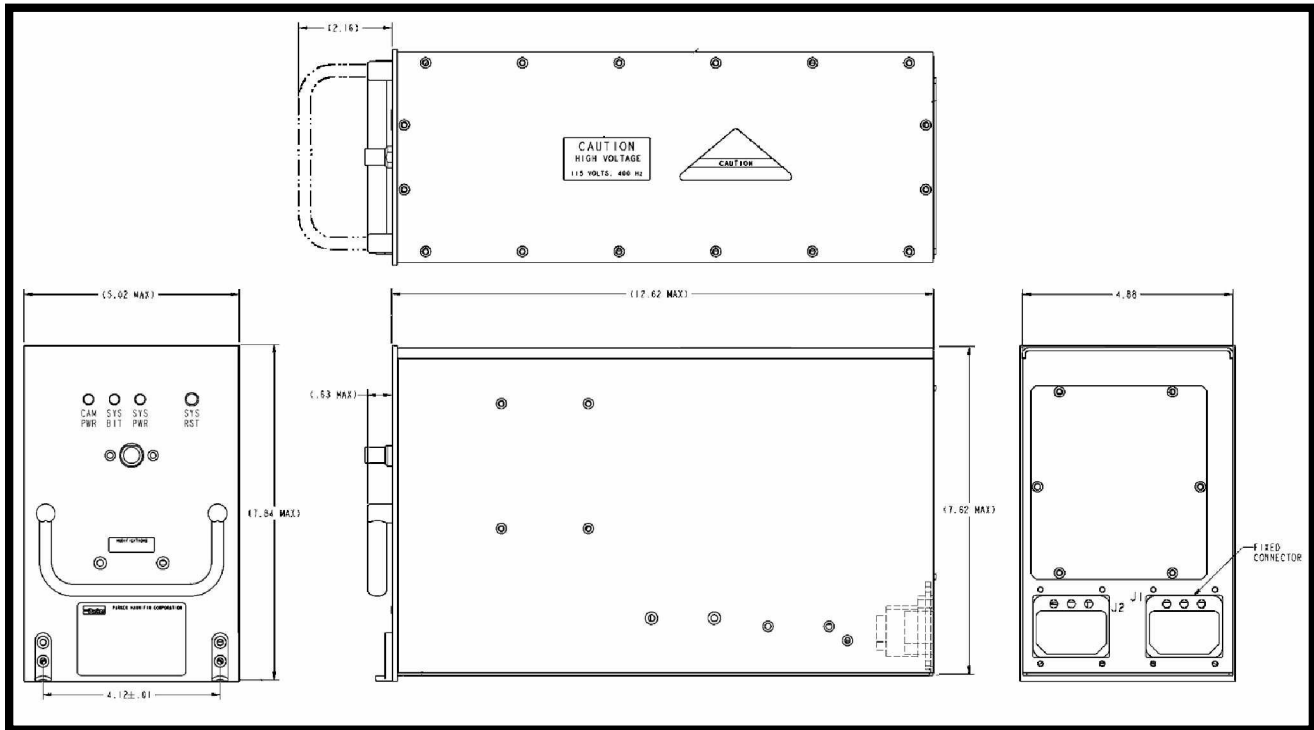
- Monitor, keyboard, mouse, floppy drive, serial port, parallel port

Front Panel LED Status Indicators 1/2

1/2 ATR Short Enclosure

2 ARINC Style Rear Connectors

Handle For Easy Removal



Processor Characteristics:

- AMD K6-2 300 MHz or faster
- 128 MB of RAM (expandable)
- IDE Interface
- Floppy Drive Interface
- Keyboard Interface
- Mouse Interface
- SVGA Video Interface
 - Flat Panel Optional
- Ethernet Interface 10-Base-2
 - 10 Base-T optional
- 2 Serial Ports
- Parallel Port

Special Functions:

- 5V +/- 12V Camera Power
- Camera Control
- Video Capture

Physical Characteristics:

- 5.02" X 7.84" X 12.62"
- 12.5 pounds
- Rugged Aluminum Housing

Environmental Characteristics:

- Temperature**
 - 15 to 50F Operating
 - 40 to 71F Non-Operating
- Altitude**
 - 15000 feet operating
 - 40000 feet non-operating
- Vibration**
 - 1.5g, 5 to 500 Hz Operating
 - 4g, 5 to 500 Hz non-operating
- Shock**
 - 6g Operational
 - 15g Crash Safety
- Primary Power**
 - 115V 400Hz
 - 28 VDC
- Power Dissipation**
 - 5 Amps, 28V
 - 1 Amp, 115V