**Advanced Threat Display**

**Full Color Multifunction Threat Display for All Types of Military Aircraft**
The Advanced Threat Display (ATD) is a 3ATI dedicated self-protection display with the capability of providing a real-time correlated threat environment picture to the pilot.

The ATD Option Select Buttons on the front bezel make the display a single point control panel for the operation of the entire self-protection suite of subsystems, saving real estate in the cockpit, and providing a capable intuitive user interface to the pilot. Different page views can be selected by the user in order to format the requested data and present views for each operational mode.

The display is based on LCD technology with impressive characteristics such as excellent sunlight performance and night vision capabilities.

**Technical Description**
The ATD design is based on a modular concept allowing for a family of configurations with different data interfaces and front bezels to accommodate optimal installation in specific cockpit environments.

Baseline design of the ATD utilizes power PC controller design for advanced display functions.

ATD interfaces allow for operation either as standard display (digital video from external source), as intelligent display with only data interface to external world, or even as controller for, e.g. a chaff/flare dispenser and a Missile Warning System.
Advanced Threat Display

General Technical Overview

<table>
<thead>
<tr>
<th>NVIS compatibility</th>
<th>MIL-L-85762A Type II Class B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel Illumination</td>
<td>MIL-P-7788</td>
</tr>
<tr>
<td>Display</td>
<td>Active Matrix Liquid Crystal Display (AMLCD)</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>+/- 30° up-down (3x3” &amp; 4x3” ver.)</td>
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<tr>
<td></td>
<td>+/- 60° transverse (3x3” &amp; 4x3” ver.)</td>
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<tr>
<td></td>
<td>-5/+17° up-down (6x3” ver.)</td>
</tr>
<tr>
<td></td>
<td>-5/+23° transverse (6x3” ver.)</td>
</tr>
<tr>
<td>Resolution</td>
<td>300 x 300 pixels</td>
</tr>
<tr>
<td>Color Depth</td>
<td>24 bit</td>
</tr>
<tr>
<td>Luminance</td>
<td>200 fL</td>
</tr>
<tr>
<td>Contrast Ratio</td>
<td>10,000 fc diffuse lighting: &gt; 7:1</td>
</tr>
<tr>
<td></td>
<td>10,000 fc diffuse and 2,000 fc specular lighting: &gt; 3:1</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>40 watt max @ 28 volt DC (70 watt max w. heater activated)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.65 lbs. max</td>
</tr>
<tr>
<td>Dimensions (l x w x h)</td>
<td>7.87” x 3.27” x 3.27” (3x3” version)</td>
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<tr>
<td></td>
<td>7.87” x 3.63” x 3.27” (4x3” version)</td>
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<tr>
<td></td>
<td>7.87” x 6.08” x 3.46” (6x3” version)</td>
</tr>
<tr>
<td>Supported Video Interfaces</td>
<td>TMDS (DVI)</td>
</tr>
<tr>
<td></td>
<td>RS-170A (option)</td>
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<tr>
<td></td>
<td>Stroke Video (option)</td>
</tr>
<tr>
<td>Supported Data Interfaces</td>
<td>EIA-422/485</td>
</tr>
<tr>
<td></td>
<td>2 x Ethernet, 10BASE-T &amp; 100BASE-TX</td>
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<tr>
<td></td>
<td>MIL-STD-1553B (option)</td>
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<td></td>
<td>ARINC-429 (option)</td>
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<tr>
<td></td>
<td>Dispense Station Data Bus (option)</td>
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<tr>
<td>Embedded Processing Capability Processor</td>
<td>PowerPC @ 300MHz</td>
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<tr>
<td></td>
<td>RAM: 128 MByte</td>
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<td>Flash: 192 MByte</td>
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</tbody>
</table>

Currently integrated on and certified for

AH-64D Apache
CH-47D/F Chinook
C-160 Transall
AS532 Cougar
C-295 Joint Cargo Aircraft
F-16
P-8A
Mi-17/Mi-24
Falcon 2000
Archangel

ATD in F-16