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# IVT-FP10

**10.4” FLAT PANEL DISPLAY**

**HIGH XGA RESOLUTION**

**SUNLIGHT READABLE**

**MULTISTANDARD VIDEO FORMATS**

**SWITCHABLE SIGNAL INPUT**

**MULTIPLE POWER SOURCES**

Unit pictured was built for U.S. military as a replacement for a CRT based monitor. Size of housing can be designed to fit smaller openings, as required.




SIMULATED PICTURE

# XGA TFT-LCD DISPLAY MONITOR

- **HIGH BRIGHTNESS 1200 NITS**
- **HIGH CONTRAST RATIO >100:1**
- **ON SCREEN DISPLAY FOR SETUP**
- **MULTIPLE INPUTS FROM MENU**
  - **ANALOG RGB**
  - **Y/C**
  - **COMPOSITE**
- **CUSTOM ENCLOSURES**
- **NTSC, PAL AND CUSTOM FREQUENCY INPUTS, IN ONE UNIT.**
- **XGA RESOLUTION OF 1024(H) X 768(V)**
- **MULTIPLE POWER SUPPLY INPUTS**
  - **12-48V DC**
  - **100-24OV AC 50 to 400HZ**
  - **MIL SPEC INPUT FILTERS**
- **RUGGED ADAPTATION TO ENVIRONMENT**
  - **SALT SPRAY AND FOG**
  - **ALTITUDE**
  - **ACCELERATION**
  - **SHOCK / VIBRATION**
  - **TEMPERATURE**
  - **EXPLOSION PROOF**
- **8 BIT COLOR DEPTH (16 X10 $^{6}$ COLORS)**
- **CUSTOM REMOTE CONTROL OPTIONS**
- **BUILT IN HEATERS FOR COLD START APPLICATIONS (optional)**

INTERMED VIDEO TECHNOLOGIES INC.

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# IVT FP-10 *10" XGA TFT-LCD VIDEO MONITOR*

## FEATURES

- **High Brightness**
  A 4 tube cold cathode backlight system is used in this model to provide 1300nits of light. This is considered "Sunlight Readable" The high brightness along with the high contrast ratio of greater than 100:1 and 8bit color system provides for brilliant picture display.

- **On Screen Display for Setup**
  An internal character generator allows selection of various functions including : Brightness, Contrast, Hue, Saturation, and Input select (Composite, Y/C, Analog RGB)

- **NTSC, PAL And Custom Frequency Inputs**
  Depending upon the customer requirements, custom video formats can be accommodated by the IVT-FP10, including special video formats which do not conform to standard video systems. Several formats can be incorporated into the same unit for maximum flexibility.

- **XGA Resolution**
  The native resolution of the panel is 1024(H) x 768(V). With scaling, which can be included in the driver board, the monitor can accommodate a large range of input frequencies.

- **Custom Enclosures**
  Depending upon the customers requirements the mounting enclosure can be made to fit existing non-standard panel openings. This might be useful when replacing an existing CRT monitor with the IVT-FP10

- **Multiple Power Supplies**
  The panel can be driven from multiple supplies, depending upon the customers requirement. These supplies can be full MIL-SPEC or commercial grade with high MTBF. Input connectors can be custom configured for any application.

- **Rugged Adaptation to Environment**
  This monitor can be manufactured to meet most MIL-SPEC requirements. Heaters and other environment augmenting options can be incorporated as conditions require.

- **Custom Remote Control Options**
  The onscreen menu functions can be accessed using a serial, or parallel remote control system. This would allow remote switching of inputs as well as various adjustments.

## SPECIFICATIONS

(H) = horizontal (V) = vertical

| | |
|---|---|
| ACTIVE SCREEN SIZE | 10.4 INCHES (26CM) DIAGONAL 210.4MM (H) X 157.8MM (V) |
| PIXEL PITCH | 0.2055 (H) MM X 0.2055 (V)MM |
| PIXAL FORMAT | 1024(H) X 768 (V) PIXELS |
| COLOR PIXAL ARRANGEMENT | RGB VERTICAL STRIPE ARRANGEMENT |
| COLOR DEPTH | 6 BIT, 262,144 COLORS OR 8-BIT 16,777,216 COLORS DEPENDING ON THE DRIVER. |
| BRIGHTNESS | 1300 CD/$M^2$ |
| POWER | PER CUSTOMER SPEC* |
| WEIGHT | PER CUSTOMER SPEC* |
| SIZE | PER CUSTOMER SPEC* |
| DISPLAY OPERATING MODE | TRANSMISSIVE MODE, NORMALLY WHITE. |
| SCREEN SURFACE | HARD COATING (3H), ANTI-GLARE TREATMENT NOTE1. |
| BACKLIGHT UNIT | CCFL, 4 TUBES |
| CONTRAST RATIO | >100 |
| SURFACE LUMINANCE,WHITE | >1200 CD/$M^2$ |
| STANDARD CONTROLS | MENU, UP, DOWN, SELECT, POWER |
| RESPONSE TIME ON | 50 MS |
| RESPONSE TIME OFF | 50 MS |
| VIEWING ANGLE: | |
| X AXIS, RIGHT | +55° |
| X AXIS, LEFT | +55° |
| Y AXIS,UP | +15° |
| Y AXIS, DOWN | +40° |

NOTE1 screen surface depends upon customers requirements
Surface indicated is for standard unit

Other panel sizes from micro to 18" and larger are available from IVT Please contact your representative with your requirements

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