



## **AeroComputers - AC104 / AC121 VGA Touch Screen NVG Compatible Dual-NTSC Monitors**

AeroComputers announces the release of the AC10 / AC12 VGA touch screen monitors. Seamlessly integrated with the UltiChart LE 5000™ tactical computer system, these monitors are available in two sizes (10.4" and 12.1") and are optimized for use in any airborne application. Both models feature extremely durable billet aluminum, powder coated enclosures, extra-bright backlights, anti-reflective filters for daytime viewing and incorporates a night vision compatible system for NVG operations.

### **INPUTS**

- VGA / NTSC 1 / NTSC 2
- OPTIONAL INPUTS/OUTPUTS, PAL, SECAM with input format of Composite video, S-Video & Component video (YCbCr)
- Digital Visual Interface (DVI)

### **TOUCH PANEL**

- HIGH ACCURACY / RS 232 OUTPUT (USB OPTIONAL)

### **POWER**

- 24 - 36 VDC (12- 36 VDC optional) @ 1.35 amps
- REVERSE POWER PROTECTED

### **PANEL SPECIFICATIONS (LCD)**

<b>Size:</b>	<b>AC104 - 10.4" (26.42 cm)</b>	<b>AC121 - 12.1" (30.8 cm)</b>
Active Area (mm)	211.1 x 158.4 mm	246 x 184.5
Pixel Format	640 x 480	800 x 600
Pixel Pitch	0.33 x 0.33	0.3075 x 0.3075
No. of Colors	262,144	262,144
Brightness	700 cd/m <sup>2</sup>	900 cd/m <sup>2</sup>
Viewing Angle (U/D/R/L)	40/50/60/60	40/50/60/60
Back-light	CCFL (4)	CCFL (4)
Response Time	15 ms.	35 ms.

### **FUNCTION**

*Easy to use on-screen display menu to control all supported functions:*

- Automatic adjustment for screen image control
- Bright, contrast control and back-light control
- Manual geometry control for H/V position, H size, and phase adjustment
- Color balance and color temperature control
- Positioning of OSD menu and 5 language selection (One language in TV)
- Input source selection
- Tint and sharpness control for video screen
- Up to 4 key OSD control button
- Vertical / horizontal image flip.

### **INSTALLATION/MOUNTING**

- Monitors have 12 equally spaced 8/32 holes around the perimeter for mounting.
- Monitors incorporate a 60061 T-6 Billet Aluminum body with an added thickness 3/8" material around mid-lower sides of for mounting.

## **PIN CONNECTIONS**

**Pin Serial (8 wire resistive) touch panel connector (standard serial protocol)**  
9-Pin Male D-Type Connector

Pin	In/Out	Signal	Meaning
1	In	DCD	Data Carrier Detect
2	In	RD	Receive Data
3	Out	TD	Transmit Data
4	Out	DTR	Data Terminal Ready
5	-	SG	Signal Ground
6	In	DSR	Data Set Ready
7	Out	RTS	Request to Send
8	In	CTS	Clear to Send
9	In	RI	Ring Indicator

**Camera 1 and 2 inputs (BNC Connections)**

Pin	Signal
Center FM	NTSC / PAL / SECAM
SHELL	Signal Shield

**VGA Adapter (15-Pin HDD-Type Female Connector)**

Pin	Signal
1	Red Video
2	Green Video
3	Blue Video
4	Monitor ID – Bit 2
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	[KEY]
10	Sync GND
11	Monitor ID - Bit 1
12	Monitor ID - Bit 0
13	Horizontal Sync
14	Vertical Sync
15	N/C (Reserved)



**Power connector (Part Number MS6112E8-P4)**

Pin	Signal
A	+18 –28 VDC
B	Power Ground
C	Not used
D	Not used

*For additional information, please contact:*

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