Flat Panel Displays

Honeywell

Performance advantages seen clearly through liquid crystal displays

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Honeywell has been actively involved in the development of “flat panel” liquid crystal displays (LCD) for nearly two decades, and has emerged as the world leader in the application of this technology for commercial avionics.

Several Boeing aircraft come standard with Honeywell’s D-size (8”x 8”) color LCDs. These displays provide significant performance advantages as well as reduced life cycle cost

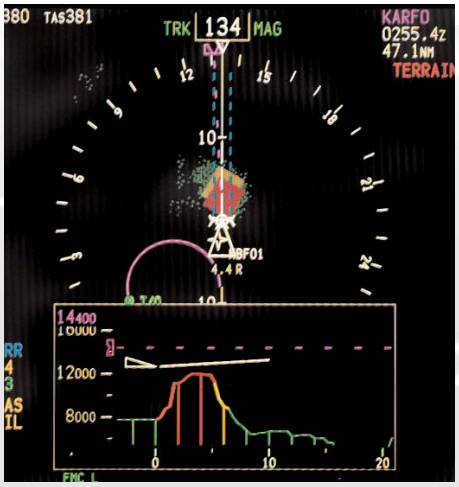
A clear preference

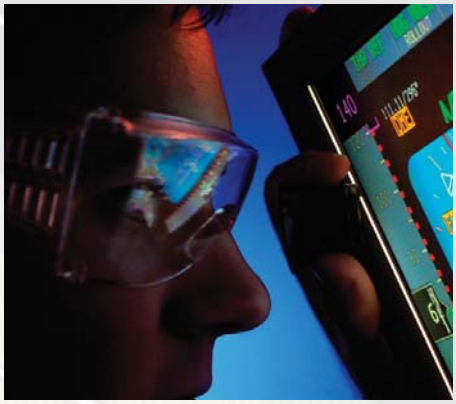
Active matrix LCD technology from Honeywell has provided the enhanced capabilities that customers desired, while at the same time improving costs. Some of the advancements are:

- A third smaller, a third lighter than a CRT, consuming one third less power
- Bandwidth and refresh rates to implement functions demanding increasing density of graphics
- Superior color uniformity, contrast and dimming in all ambient conditions minimize pilot eyestrain.

Whether driven by a VIA or AIMS computer, the Honeywell Color LCDs provide the benefits – larger usable display area, better contrast in high sunlight conditions and enhanced display resolution - that make it a highly desirable component on the flight deck.

- Excellent image quality and wide viewing angles assure flight crews of dependable cross-cockpit viewability
- Proven, reliable backlight design
- Video signal viewing available on specific models
- More than 15,000 units in service make the Honeywell LCD by far the flat panel of choice





Characteristics

Size (H x W x D)	8.26 in. x 8.37 in. x 10.65 in.
Weight	14 pounds
Power	28 VDC 120 Watts (heaters off) 270 Watts (heaters on)
MTBF	29,000 flight hours
Hardware Qualification	DO-160D
I/O	Digital Video bus (4) NTSC video (1)
Viewable area	6.7 in. x 6.7 in.
Resolution	1152 x 1152
Brightness	0.05 to 100 fL (2000:1 dimming range)
Viewing angle	+/- 55 deg Horiz; +30/-10 deg Vert

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