The next generation of control display units
Honeywell’s latest flat panel control display unit (CDU), the CD-820, employs a large full color active matrix liquid crystal display (AMLCD). Inherent view angle limitations common to other AMLCDs are overcome, and the introduction of wide view angle AMLCD compensation films coupled with the introduction of view cone steering technology make the CD-820 truly the next generation of CDU. The CD-820 design offers reduced weight, volume and power consumption while increasing reliability and lowering cost of ownership.

**Color flat panel display**
- Active matrix color LCD
- Full graphics and video capability
- Superior, full sunlight readability

**New features now available**
- Graphical weather
- Three new function keys for shortcuts to video (VIDEO), graphics (GRAPHIC), and CNS/ATM (ATC)
- BACK key provides return to FMS functions similar to internet browser functionality
- FN key adds a new “soft key” feature such as UNDO
- Infrared port provides unlimited potential for data upload and download which may eliminate the need for data loaders or on-board printers in the future

**Industry respected and time proven functionality**
- Seven function keys provide access to most frequently needed FMS functions
- NAV and PERF keys provide easy access to menus
- Dedicated Direct-To (DIR) key
- PREVIOUS and NEXT keys allow for full page scrolling

**Keyboard**
- New silicon keys with finger indentation for positive tactile feel
- Minimal display recess eliminates parallax
- Full alpha and numeric keyboard
- Large key identifiers
- Finger stabilization indentations (patent pending)
- Electroluminescent (EL) lighting

**Line select keys**
- Line select scratchpad entry (common to air transport aircraft)
- Single page multiple data selections / entries

**Benefits**
- 4,500 hours MTBF (predicted reliability)
- Uniquely suited for retrofit and OEM installations
Designed for growth

The CD-820 is designed for ease of growth to produce new operator benefits using rapidly expanding technology.

Physical characteristics

- Dimensions: 7.125" H x 5.75 W x 6.0" D
- Weight: 6 lbs.
- Rear connectors
  - 71-570128-551
  - BNC 226993-2
  - Passive cooling

Interfaces

- High speed RS-422 SDLC bus
- High speed RS-422 asynchronous bus for file transfer
- Discretes:
  - 5 inputs
  - 12 outputs
- Built-in test (BITE)
- On aircraft software loading

Lighting / display

- Brightness: 100 FL standard
- Full color AMLCD
- 16M color capability
- 5.6" diagonal display
- Manual brightness control with ambient light compensation
- Sunlight readability
- Three user selectable view cone positions base on cockpit location

Power requirements

- 28 VDC input
- 0-5 VAC or VDC lighting
- Less than 50 watts power consumption during normal operation

Qualifications

- TSO C113
- DO-160D environmental
- DO-178B level C software
- Operating temperature -45° C to +70° C

Enhanced features

- NTSC and RGB video input
- Internal video mode switching
- ACARS
- Airshow control
- External camera selection

Graphical Interfaces

Video

As an optional feature, the CD-820 color flat panel display can accommodate internal graphics and video inputs. Up to six interior or exterior video cameras may connect to the CD-820. Formats for video inputs must be either RGB or NTSC.

Weather graphics

With NZ 6.0 and appropriate Airborne Flight Information Service (AFIS) software, the CD-820 also can display graphical weather provided by the Honeywell Global Data Center. Additionally, the CD-820 can display graphical weather products from other service providers through on board data link systems.

Preview mode

With NZ 6.0 software, a preview mode is also available on the CD-820. This feature allows flight crews to preview an active leg change via the CD-820 display prior to waypoint insertion.