



CDU

Cockpit Display Unit



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Functional Description

The CDU is a full MIL-SPEC Cockpit Display Unit with user friendly HMI interface between the helicopter/aircraft crew and the avionics system. Using the CDU OSS pushbuttons, the aircrew can select and control the avionics systems including selection of modes/sub-modes, data entry and editing, self-test, and more.

The CDU supports various communication protocols with the mission computer and the avionic systems such as : MIL-STD-1553 or ARINC 429, RS-422, RS232, Can Bus, Ethernet (internal 4/8 port switch is optional), USB, The CDU support up to 16 GPIO, A/D and D/A.

The CDU has built-in data storage capabilities and can drive a secondary display unit.

Data interface for mission parameters up/downloading capability is optionally available using a USB flash memory device.

Front panel characteristics

Monitor

- Display: 5" diagonal high-brightness 800*480 dpi color Active Matrix LCD (AMLCD) screen
- The CDU Display is fully sunlight readable and NVG compatible, with LED backlighting
- Viewing angles:
 - Horizontal angle (min.): ±40 degrees
 - Vertical angle (min.): ±35 degrees
 - Shades of grey: at least 64 grey levels
- Supported video inputs: DVI, RS-170 PAL/NTSC
- External Video input Switching and video display

Technical Specifications

Qualification.....MIL-STD-810F

EMI/RFI.....MIL-STD-461E

Power Supply per.....MIL-STD-704A

Operational service life ...Over 50,000 hours

Useful service life.....Over 25 years

Bezel

- Bezel keys - Fully tactile, MIL-STD, NVG compatible
- Hot keys - Dedicated hot keys provide for direct access to primary pages
- A data erase pushbutton is optionally available



Bezel and display customization according to customer requirements

About Niron Systems & Projects

Niron Systems & Projects is a recognized provider of sophisticated technological solutions for defense and Homeland Security applications. With many years of accumulated experience backing a strong command of the most advanced modern technologies, company engineers specialize in the development and production of integrated solutions for a variety of manned and unmanned airborne, ground, and surface naval platforms. These include control systems for weapon delivery and Chaff & Flare Dispensing Systems; mission and communication computers; display and switching units; hardware and software solutions for real-time systems.

The company also provides unique turnkey project management and ongoing customer support services for non-standard technological programs requiring close professional accompaniment.

Niron Systems & Projects is certified to ISO 9001:2008 and ISO 90003:2004.

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