



DLC50 Downlink Control Panel



DLC50-A



DLC50-M

> Applications

- Airborne Law Enforcement
- Surveillance Aircraft
- Airborne ENG
- Signal Relay
- Land or Sea Vehicles

> Benefits

- Universal control for all BMS digital systems
- 1.5 inches of vertical panel space
- DO-160G Compliant
- Single control for airborne relay (transmit and receive)
- Data port allows access to system settings
- Mount compliant to MS25212C (dZeus)
- Operates with Cockpit Dimming Circuit

> Options

- Optional NVG model
- Optional antenna actuator/control model
- 12 VDC "All Weather" model
- Programming for filter bank switching at no extra cost (filter banks extra)

> Features

The new Downlink Control Panel is designed to give the aircraft operator full control of any BMS digital microwave system. The DLC50 universally controls any BMS Heli-Coder(tm) product. As a replacement for the HCP-50 Series, the DLC50 occupies the same 1.5" of vertical space and easily retrofits into HCII systems using a short accessory adapter cable (DLC-JMPR). The new, bright OLED display is visible even when using polarized glasses. Twenty presets and three definable "hot keys" make operation a breeze.

As the control center for the downlink, the DLC50 offers flexibility not available until now. The panel offers two levels of control. The top or simple level is for normal operation, providing a limited, definable, control set that simplifies day to day operations. A second level allows complete configuration and adjustment of transmit or relay (transmit/receive) downlink functions.

The usual controls are still there such as preset select*, channel select*, and transmit off/on. But now other useful controls such as encryption on/off/key change, receiver control, filter and external relay control are all immediately available. Channel and frequency plans can be quickly loaded through the front panel USB 2.0 port*.

The DLC50 for aviation is available with standard day/night display, and an NVIS version compatible with a NVIS-B cockpit (MIL-STD-3009 Class B). Either model is available with control for the TAA-101 antenna actuator. See ordering information for details.

* Functions are transmitter or receiver dependent.

> DLC50 Downlink Control Panel

The DLC50-M All Weather model is designed for 12 VDC vehicle operation. A variety of control cables are available to control most BMS digital devices. This model features a splash resistant front panel and O-ring seal, perfect for vehicle and open cockpit boat applications. The DLC50-M can be programmed to operate most BMS digital transmitters and receivers. (Order control cable separately.)

Partial list of DLC50 functions*:

- Recall Preset
- Select Robustness Mode (transmitter)
- Encryption type select
- Encryption PIN set
- Encryption on/off
- USB flash functions for software upgrade or channel plans
- External relay control (up to four relay triggers, manual or automatic)
- Channel Select
- Frequency Set
- Soft Key Setup
- Display brightness
- Switch control from primary to secondary panels
- Switch between transmitter or receiver control
- Four auxiliary control points may be programmed for any control use. Add suffix -FS to add filter bank control (model DLF filter banks extra, consult factory)

* Functions are transmitter or receiver dependent.

> Ordering Information

| | |
|---------------|--|
| DLC50 | Basic Panel |
| DLC50-N | NVIS-B option |
| DLC50-A | Antenna Control option |
| DLC50-AN | NVIS-B & Antenna Control options |
| DLC50-M | All Weather, 12 VDC Vehicle Panel |
| DLC50-xx-FS | Adds Filter Switching control to any DLC |
| DLC-JMPR | Adaptor Cable for Retrofit |
| Control Cable | Specify cable according to length and device to be controlled at time of order |

> Specifications

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|--------------------------------------|--|
| Size (DLC50) | 1.5" x 5.75" x 4.40" D (3.84 x 14.61 x 11.18 cm) |
| Size (DLC50-M) | Front: 6" W x 1.75" H (15.24 x 4.45 cm) Box: 1.5" x 5.75" x 4.40" D (3.84 x 14.61 x 11.18 cm) |
| Weight | 14.6 oz (0.42 kg) |
| Weight (DLC50-M) | 16 oz (0.46 kg) |
| Power | 28 VDC, 100 mA, (< 1 A when using actuator) |
| Power (DLC50-M) | 11-16 VDC, 200 mA |
| Panel Fasteners | DZUS (x2) Alternate mounting available |
| Panel Mounting (DLC50-M) | Four stainless steel bolts supplied with backing panel and weather gasket |
| Actuator Limit Lights (-A option) | Green=Up, Yellow=Down * |
| External control | Four external control points are provided. Request special programming at time of order |
| Filter Switching | When airborne relay is used, external filter banks are often required. Add suffix -FS to model at time of order for special device programming |
| Operating Temp. | -15 to +65 C (5 to 149 deg. F) |
| Vibration | Per DO-160G, Section 8, fixed and rotary wing aircraft |
| Humidity | 5-95% RH |
| Panel Illumination | Slaves to cockpit dimming circuit if desired * |
| * NVIS option: All LEDs NVIS Green-B | |



DLC50-N