Flight Log User Guide

Flight Log Bedienungsanleitung

Guide de l’utilisateur - Flight Log

Flight Log Guida dell’utente

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit horizonhobby.com and click on the support tab for this product.

Meaning of Special Language

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

⚠ **WARNING:** Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

Age Recommendation: Not for children under 14 years.
This is not a toy.

WARRANTY REGISTRATION
Visit www.spektrumrc.com/registration today to register your product.

SPM9540 Flight Log User Guide

The Flight Log is an optional component that was originally designed for testing, but now it is offered as a handy device that gives you a clear digital readout of your radio performance. The Flight Log is not required, but for complex aircraft it provides an intuitive analysis of the overall performance of the radio installation. Some of today's models can be very demanding. The Flight Log ensures that your system is working properly and you have optimized the radio installation.

The Flight Log provides the following information:

- System Voltage—Receiver Pack Voltage
- Frame Losses
- Antenna Fades
- Holds

Guidelines for DSM2

- An antenna fade represents a loss of a bit of information on that specific antenna. Typically, it's normal to have as many as 50 to 100 antenna fades during a flight.
- A frame loss represents simultaneous antenna fades on all attached receivers. If the RF link is performing optimally, frame losses per flight should be less than 20.
- A hold occurs when 45 consecutive frame losses occur. This takes about one second. If a hold occurs during flight, it's important to re-evaluate the system, move the antenna to a different location and/or check to make sure the transmitter and receivesr are all working correctly.

Guidelines for DSMX

- Holds—Holds are unacceptable. If a hold occurs, please investigate and correct the issue before next flight.
- Frames—<100- In conventional models during a 10 minute flight, frames should typically be less than 100 on all receivers.
- Fades—Use Fades for comparison only. All attached receivers should have similar Fades. If not, investigate poorly performing receivers (location, antenna orientation, etc) and correct.

Operational Differences between DSM2™ and DSMX® receivers while using the Flight Log:

DSMX is frequency agile while DSM2 finds two quiet channels and remains on those channels. Consequently, because DSMX operates on quiet and noisy channels, it's common to have more Antenna Fades and Frame Losses than when using DSM2 in busy 2.4GHz environments.

Specifications

Dimensions: 1.06 x 0.71 x 0.45 in (27.0 x 18.0 x 11.5mm)
Weight: 0.24oz (6.69 g)

The Flight Log displays the following data:

- Displays antenna fades
- Displays frame losses
- Displays fail-safes
- Receiver battery performance

Compatible Receivers:

AR600	AR6115	AR6115e	AR6210	AR6255	AR7010
AR7110/R	AR7200BX	AR7610	AR8000	AR9010	AR9110
AR9210	AR9310	AR10000	AR12010	AR12110	AR12200

A servo extension can be used to allow the Flight Log to be more conveniently plugged in without having to remove the aircraft's hatch or canopy. Depending on your model, you might choose to permanently mount the Flight Log using doubled-sided tape.

Step 1- After a flight and before turning off the receiver or transmitter, plug the Flight Log into the Data port on the receiver. The screen will automatically display voltage, e.g. 6v2= 6.2 volts. When the voltage reaches 4.8 volts or less, the screen will flash, indicating low voltage.

Step 2- Press the button to display the following information:

A—Antenna fades on receiver A	B—Antenna fades on receiver B
L—Antenna fades on the left receiver	R—Antenna fades on the right receiver
F—Frame loss	H—Holds