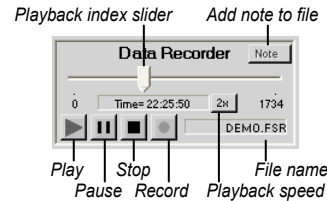


Recording and playing a data file

The Viewer Software has a built in Recorder/Player that records real-time data from your FS Receiver and stores it in a file. The Recorder logs all incoming data and adds time information. The Player plays back, or steps through, the entire file.



To do this...	Do this...
Record data	<ol style="list-style-type: none"> 1. File > New. 2. Name and save the file. 3. Click Record button. 4. Carry out any transmitter or receiver actions you want to record. 5. When done, click Stop button. 6. To save data, File > Save / Close.
Open data file	File > Open Data File. or In Windows Explorer, double-click an FSR file (file will begin to play immediately in Viewer).
Move to any point in current data file	<ol style="list-style-type: none"> 1. Click Pause button, then... 2. Drag player index slider. or Use RIGHT-ARROW and LEFT-ARROW buttons to move through file one line at a time.
Add note to current data file	While data file is open: <ol style="list-style-type: none"> 1. Drag player index slider to place where you want note. 2. Click Note button (or press ALT-N). 3. Type note. 4. Click Save button (or press ALT-S).

FMA limited warranty

FMA, Inc. warrants this product to be free of manufacturing defects for the term of one year from the date of purchase. Should any defects covered by this warranty occur, the product shall be repaired or replaced with a unit of equal performance by FMA or an authorized FMA service station.

Limits and exclusions

This warranty may be enforced only by the original purchaser, who uses this product in its original condition as purchased, in strict accordance with the product's instructions. Units returned for warranty service to an FMA service center will be accepted for service when shipped postpaid, with a copy of the original sales receipt or warranty registration form, to the service station designated by FMA.

This warranty does not apply to:

- Consequential or incidental losses resulting from the use of this product.
- Damage resulting from accident, misuse, abuse, neglect, electrical surges, reversed polarity on connectors, lightning or other acts of God.
- Damage from failure to follow instructions supplied with the product.
- Damage occurring during shipment of the product either to the customer or from the customer for service (claims must be presented to the carrier).
- Damage resulting from repair, adjustment, or any alteration of the product by anyone other than an authorized FMA technician.
- Installation or removal charges, or damage caused by improper installation or removal.

Call (301) 668-7614 for more information about service and warranty repairs.

Flight System Receiver Viewer Software



Features

- Real-time display of Flight System Receiver data.
- Graphically displays servo positions for all channels.
- Graphically displays failsafe preset positions.
- Built-in recorder/player: record receiver data, play back for analysis, add notes.
- Unique Help Wizard describes exactly what receiver is doing, and interprets receiver data.
- Runs on PCs having Windows 98 or later and a serial port.
- Use with a laptop computer for radio system analysis at your flying field.

Note: The Viewer Software is not required for FS Receiver setup and operation, however, it is a great tool for helping you set up a FS Receiver. It provides a convenient way to view and interpret what the receiver is doing, and permits data recording and playback.

Installing the software and interface module

To use the Viewer Software, you must supply:

- Desktop or laptop computer with:
 - Windows 98 or a later Windows version, and Internet Explorer 6.0 or later.
 - Serial port.
 - CD-ROM drive.
 - Microsoft .NET Framework software (if this is not already installed on your computer, you can install it from the Viewer Software CD).
- FMA FS Interface Module (part number FSIM1).
- 9-pin to 9-pin serial cable (included with FSIM1 purchase).

For reliable operation, install the latest Windows updates. Critical updates are on the Viewer Software CD, but Windows Update is better.

A. Install the software

1. Insert the FMA Direct Viewer Software CD into the computer's CD drive.
2. Use Windows Explorer to view the contents of the CD.
3. If Microsoft .NET Framework software is not already installed on your computer:
 - a. In Windows Explorer, double-click *dotnetfx.exe*.
 - b. Follow the on-screen instructions.
 - c. For Windows 98 installations, reboot the computer.
4. Install the Viewer Software:
 - a. In Windows Explorer, navigate to the "Viewer" Folder, then double-click *setup.exe*.
 - b. Follow the on-screen instructions.

B. Install the Interface Module

The Interface Module connects the FS Receiver to your PC, and is required for using the Viewer Software to view and record receiver data. (The Interface Module is not required for *playing* data files. For example, you can play the demo data file using the Viewer Software to see what the program does. If you don't already have an Interface Module, this demo file may help you decide to purchase one.)

1. For an FS5 receiver: Remove the servo connector from channel 1 of the receiver. Attach the Interface Module servo connector to channel 1 of the receiver. Do not use a Y connector to attach the adapter and servo at the same time.
2. Connect the Interface Module to the computer's serial port using the serial cable included with the Module.

FMA, Inc. • 5716A Industry Lane • Frederick, MD 21704
 Sales: (800) 343-2934 • Technical: (301) 668-7614 • www.fmadirect.com

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Using the Viewer Software

To Run the Demo:

1. Launch the Viewer:

- Double-click the Viewer icon on the computer's desktop.
or
- **Start > Programs > FS Receiver Viewer.**

2. Click the "Demo" button.

If you have the FSIM1 FS P.C. Interface Module:

1. Connect the FS Receiver to your computer's serial port using the Interface Module (see previous page).

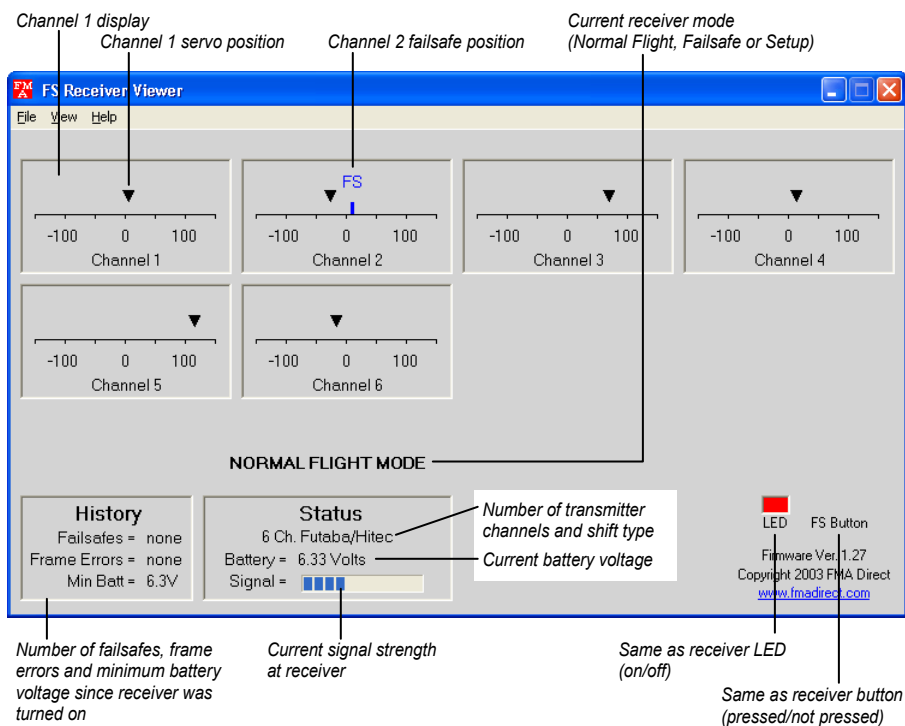
2. Turn on the transmitter, then turn on the FS Receiver.

3. Launch the Viewer:

- Double-click the Viewer icon on the computer's desktop.
or
- **Start > Programs > FS Receiver Viewer.**

4. Click the "Continue" button.

The program polls all the serial ports on your computer to find the one connected to the FS Receiver. If you don't see the display below after a few seconds, there is a problem in the connections between the computer and the receiver. Check the cabling and connections. Make sure the black connector from the Serial Adapter is in the proper orientation (black wire to the outside) on the channel 1 pins.



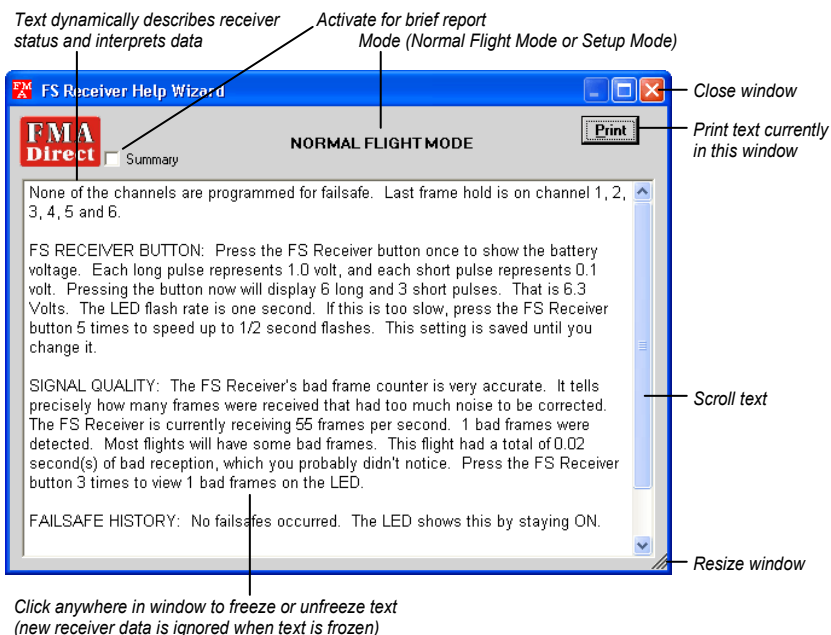
Note: When you are finished using the Viewer, disconnect the Interface Module from the receiver, and reconnect the servo to channel 1.

Using the Help Wizard

The unique Help Wizard provides a running description of what the FS Receiver is doing at any particular moment. Additionally, the Wizard interprets the receiver's data for you, making it easy to understand what the receiver is telling you.

To open the Help Wizard: **Help > Help Wizard**, or press F1.

Here's what's in the Help Wizard window:



Tip: Before printing the Help Wizard, use the **File > Print Setup** command to select a printer and set printer properties.

Tip: While the Help Wizard text is frozen, it ignores receiver data, so you might miss critical events. Instead, you can record receiver operation, then play back the data file (see next page). During playback, open the Help Wizard for data interpretation. Instead of freezing the Wizard, click the Pause button. This enables you to read all operating details.

Tip: For additional information about the Viewer Software and FS Receiver:

- Open the Viewer Software's help file: **Help > Help Contents**, or press ALT-F1.
- Download the FS Receiver and Viewer Software manual PDF from the Support section of the FMA Direct Web site: www.fmadirect.com. (Contains same information as Viewer help file.)

Tip: Check the Support section of the FMA Direct Web site (www.fmadirect.com) for Viewer Software updates. You don't need to uninstall the previous version. The installer will overwrite the version currently installed on your computer.