

# How do I serial transfer patient data between an HFA II and an HFA II-i?

ZEISS Quick Help: Humphrey® Field Analyzer II and II-i (HFA II and HFA II-i)

You can serial transfer patient data between two HFA™ instruments as long as the receiving instrument is running the same, or a newer, version of system software. Follow these steps.

## Serial Transfer Modes

The HFA II-i is capable of serial data transfer in two transfer modes:

1. Serial I transfer mode will not transfer gaze data or SITA test data. It is primarily designed to transfer only HFA exam data.
2. Serial II transfer mode will transfer SITA test and gaze data. Serial II transfer is recommended.

To set the transfer mode:

Main Menu > System Set Up > Save/Transmit > Data Format

**Note:** The process transfers approximately 1,000 tests per hour at a 19200 baud rate, using a direct cable connection between two HFAs.

## HFA II to HFA II-i Serial Data Transfer

Transfer of serial data from the HFA II to HFA II-i is possible in both Serial I transfer mode and Serial II transfer mode. However, you must have the HFA II-i and the HFA II set to the Serial II transfer mode to ensure that all of the test information (SITA and gaze data) is passed to the HFA II-i.

## Transmitting HFA II tests to an HFA II-i:

1. Ensure that the Serial II Transfer is enabled on the HFA II. Check the destination window of the Transfer Files selection on the File Functions Menu. If not, load the Serial II Transfer Disk.

**Note:** To perform the data transfer, the HFA II will need to be equipped with version 14.2 software.

2. Ensure that the data transfer cable is connected between the HFA II-i DATA TRANSFER port and the HFA II SERIAL PORT 1.

**Note:** The process transfers approximately 1,000 tests per hour at a 19200 baud rate, using a direct cable connection between two HFAs. Expect that up to 10% of the total tests will not transfer, generally because they are invalid or incomplete.

### Tests that will not be transferred:

- Fast Threshold tests or Master files.
- Compared, Averaged or Merged exams.
- Tests without birthdates or with invalid birthdates.
- Tests with invalid test dates.
- Tests without LEFT or RIGHT denoted in eye field.
- Tests that have invalid (x,y) coordinates for test points.



### On the transmitting HFA II:

3. From the Main Menu, select **System Setup**.
4. Select the **Save/Transmit** option.
5. Select **RS-232** Options.
6. On the RS-232 Options screen, select the following settings:
  - Baud Rate to 19200
  - Parity to Even
  - Data Bits to 7
  - Stop Bits to 1
7. Press **Proceed**. The Transmit/Save screen will then appear.
8. Press the **Main Menu** icon in the upper right corner of the screen.
9. From the Main Menu, select **File Functions**.
10. Select **Transfer Tests**. A dialog box titled "Disk Options" will appear on screen.
11. Select **Hard Drive** as the Source.
12. Select **HFA II Serial Cable** as the Destination.
13. Select the **Directory Order** (either Name or Date), then press **Proceed**.
  - **If you chose Name:** Press **Enter** and select **All** to choose all files on the drive. All files on the disk will be marked with a "." to indicate that they have been selected.
  - **If you search files by patient name:** Enter the name, or just the first few characters, of the patient's last name whose test(s) you wish to transfer. Select the test(s) you wish to transfer. All files selected will be marked with a "." to indicate that they have been selected.
  - **If you chose Date:** The file directory will be displayed in reverse chronological order. Enter a specific date (mm-dd-yyyy), then choose **Enter**. The file directory will display tests taken on the date you selected. Select the test(s) you wish to transfer. All files selected will be marked with a "." to indicate that they have been selected.
14. Press **Proceed**. A pop-up dialog box will appear advising you of the number of tests selected to be transferred. **Stop here! Do not choose 'Yes'** to start the transfer process. Proceed to set up the receiving HFA II-i.

### On the receiving HFA II-i:

15. From the Main Menu, select **System Setup**.
16. Select the **Save/Transmit** option.
17. Select **Serial Receive** option.
18. On the RS Receive Setup options screen, select the following settings:
  - Baud Rate to 19200
  - Parity to Even
  - Data Bits to 7
  - Stop Bits to 1

19. Press **Proceed**. The Transmit/Save screen will then appear. Press **Proceed**.
20. The System Setup menu will appear.
21. From the System Setup, select **File Functions**.
22. Select **Transfer Tests**.
23. Select **HFA Serial Cable** as the Source.
24. Choose **Hard or Floppy** as the Destination, then **Proceed**.

**On the HFA II:**

25. To proceed, select **YES**.
26. After all tests are transmitted, a pop-up dialog box will appear advising you of the number of tests that were successfully transferred.
27. Press the **Main Menu** icon to exit this function.

Refer to the Humphrey Field Analyzer user manual *Instructions for Use* for safe and effective operation of the instrument.



**Carl Zeiss Meditec Inc.**  
5160 Hacienda Drive  
Dublin, CA 94568  
USA  
[www.zeiss.com/med](http://www.zeiss.com/med)



**Carl Zeiss Meditec AG**  
Goeschwitzer Str. 51-52  
07745 Jena  
Germany  
[www.zeiss.com/med](http://www.zeiss.com/med)