

Why can't I run a GPA analysis?

ZEISS Quick Help: Humphrey® Field Analyzer II-i

There may be a number of reasons that the GPA™ Analysis will not run. Below are explanations for the three most likely possibilities.

1. Insufficient number of compatible tests

It's possible that not enough tests have been run. The GPA program will not run until a sufficient number of compatible tests for the eye being tested have been performed. There must be a minimum of three qualified tests – two Baseline tests of the same test strategy and at least one Follow-up exam of a compatible SITA strategy. See *Table 1: Permitted Baseline–Follow-Up Configurations for GPA*.

Table 1: Permitted Baseline – Follow-up Configurations for GPA

If the Key Exam is:	The Baseline Exams must be:	The Follow-up Exams must be:
SITA Standard	SITA Standard	All SITA Standard
SITA Standard	Full Threshold	Any combination of SITA Standard and Full Threshold
SITA Fast	SITA Fast	All SITA Fast
SITA Fast	Full Threshold	Any combination of SITA Fast and Full Threshold

2. Test strategy

The follow-up test must be the same test strategy as the baseline, with the exception if the 2 baseline exams are Full-Threshold strategy. In this case, either Full Threshold or SITA (either SITA standard or SITA Fast, but not a mix) can be used going forward.

3. Exam reliability

Tests must be qualified (for example, not *Low Reliability*). The GPA software verifies exam reliability and is designed to account for, and compensate for, random patient variability. However, high-quality exams produce the best analysis. If the Fixation Loss reliability index exceeds acceptable tolerance, the GPA software will warn you by generating and printing out a ****Low Test Reliability**** message. See *Figure 1: Full GPA Report Example – Follow-up Pages*. Tests deemed to have "Low Test Reliability" cannot be included in GPA software.

Tests showing excessive False Positive response rates are automatically excluded from GPA analysis and are marked with an exclamation point ("!") in the Exam Selection dialog. The printout will include the notation ****** Excessive High False Positives.**



Figure 1: Full GPA Report Example – Follow-up Pages

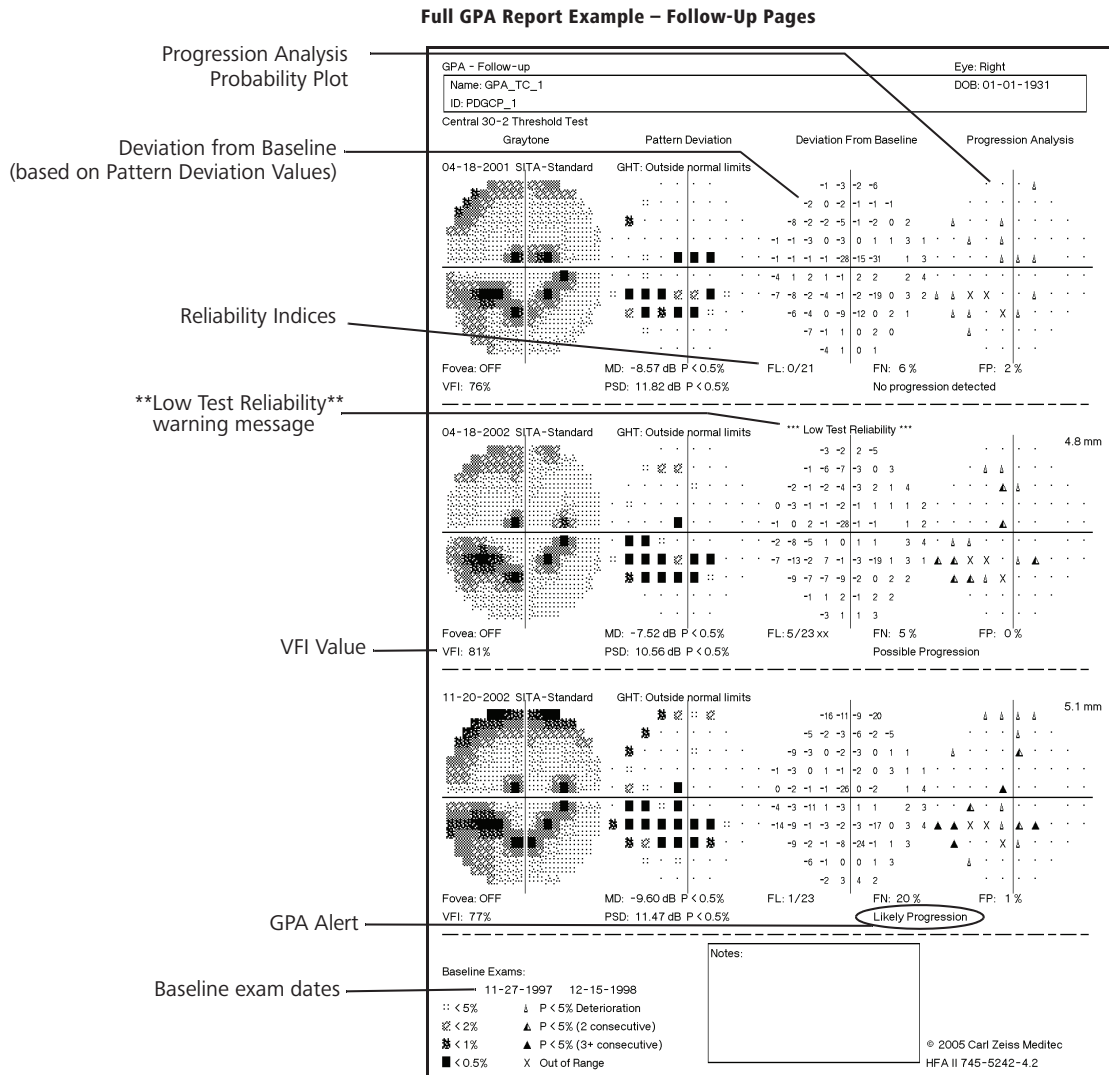


Figure 8.4 GPA Follow-up Test Results from the Full GPA Report

The Follow-up pages of the Full GPA report (Figure 8.4) present data for each of up to 14 Follow-up tests. For each Follow-up test, a Graytone, Deviation from Baseline, Pattern Deviation Plot, and Progression Analysis Probability Plot are created. The Progression Analysis Probability Plot expresses deterioration in the visual field at each test point compared to Baseline (at the p < 5% significance level). A GPA Alert Message, "No Progression Detected", "Possible Progression" or "Likely Progression," will appear below each exam analysis.

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

