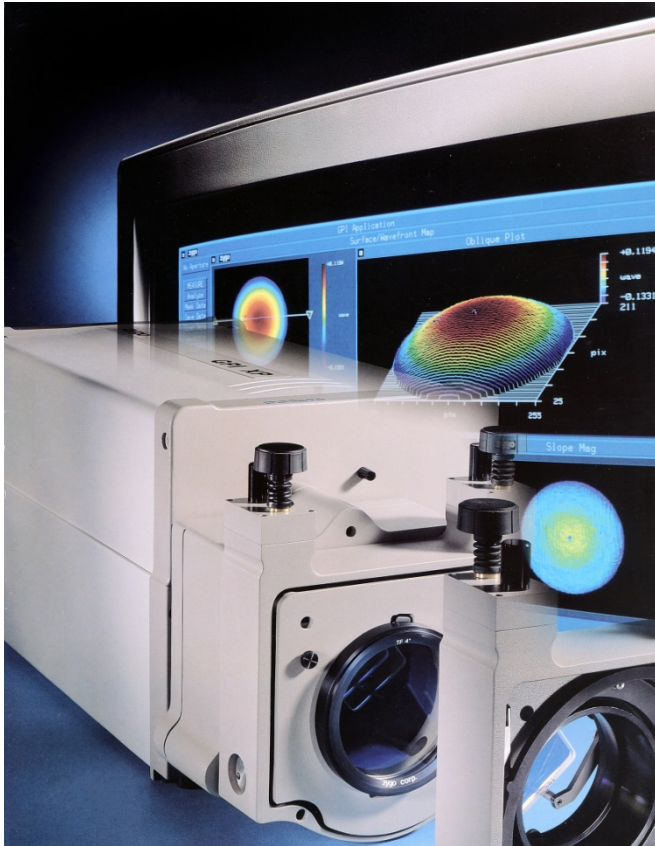


GPI CAN Upgrade

The **GPI CAN Upgrade** upgrades a GPI XP or XP/HR interferometer from analog electronics to digital electronics based on the Controller Area Network bus architecture. The upgrade includes a new computer, the latest version of MetroPro™ software, and your instrument retrofitted with a new electronics board and a new digital camera.



SYSTEM COMPONENTS

Camera	640 x 480 pixel resolution CCD
Electronics	CAN digital instrument board
Computer & Software	High Performance Dell PC with ZYGO MetroPro™ software

CAPABILITIES

- Improved slope resolution with digital electronics and camera.
- Latest MetroPro™ software capabilities including enhanced fiducial software and new PVr measurement result.
- Option to upgrade to a higher resolution 1K x 1K camera.
- Adds camera shuttering capability– critical for optimized FlashPhase software performance.
- Minimize risk of downtime that may result by limited availability of older analog electronics.

FREQUENTLY ASKED QUESTIONS

- Q:** How do I order a GPI CAN Upgrade?
A: The GPI CAN Upgrade can be ordered as part number 6500-0593-01 or SUN 80008. SUN 80008 includes assembly labor and requires the system to be returned to ZYGO. P/N 6500-0593-01 can be performed at one of ZYGO's qualified regional offices.
- Q:** Can the GPI CAN upgrade be performed "in the field"?
A: No, the GPI CAN upgrade cannot be performed at the customer site but many of ZYGO's regional offices have the capability to do the upgrade in their facility.
- Q:** Can a GPI CAN upgrade be used for a MARK, PTI or PTI250 system?
A: No, the MARK, PTI and PTI250 systems are not eligible for this upgrade.
- Q:** What version of MetroPro™ software will I receive?
A: The GPI CAN upgrade includes the Metro Pro software version 8.3.2 or later.
- Q:** Does the GPI CAN upgrade enable the operation of FlashPhase or Vibration Correction software?
A: FlashPhase and Vibration Correction software can be used on older systems. The CAN upgrade enables optimized performance for both packages with camera shuttering capability and higher throughput acquisition and analysis.
- Q:** Does the GPI CAN upgrade provide access to new MetroPro™ software features?
A: Yes, the GPI CAN upgrade includes the latest MetroPro software package which provides features like enhanced fiducial capabilities and the new PVr result.
- Q:** Does this upgrade allow for the integration of encoded zoom and focus capabilities?
A: Yes, encoded zoom and focus can be added to any GPI with CAN digital electronics. The encoded zoom is p/n 6500-0589-02; encoded focus is 6500-0590-02 and the combined encoded zoom and focus package is p/n 6500-0591-02.
- Q:** Is a 1K x 1K camera available with the GPI CAN upgrade?
A: Yes, in addition to the GPI CAN upgrade the standard 1K camera upgrade must be ordered (p/n 6500-0565-06).
- Q:** Can the upgraded GPI mainframe be used with an existing large aperture beam expander ($\geq 12"$ diameter)?
A: Yes, but the beam expander must have a digital CAN based power supply.
- Q:** Can an analog large aperture power supply be upgraded to CAN digital electronics?
A: Yes, the part number for upgrading the power supply is 6194-0193-01.
- Q:** Can a VeriFire AT or GPI HS with analog electronics be upgraded to a digital CAN solution?
A: Yes, the p/n for upgrading a VeriFire AT or GPI HS is SUN 80006. This upgrade includes a 1K x 1K camera and must be upgraded at the factory.

For additional information on ZYGO upgrades, accessories or instruments please contact your local ZYGO office.