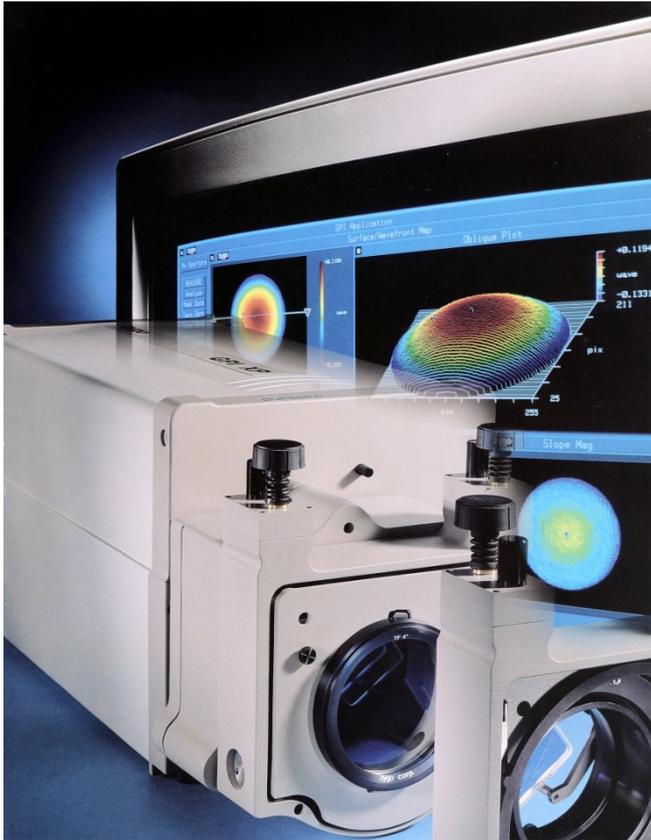# GPI CAN Upgrade

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 (≥ 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.