

The **BCConversion™** is a replacement for BC1, BC2 or BC3 electronics. It is compatible with existing mapping software that work with the original BC3 electronics as well as with the Leica Mapping Terminal (LMT) electronics. A real-time processor interacts with **AC10** controllers that connect with the drives and all other parts of the instrument. Analog tacho signals are no longer used to drive the motors. Instead, it uses digital signals at a rate of 1000Hz. This improves driving characteristics and eliminates the need for analog adjustments of the drive electronics.

The **BCConversion** replaces the real-time computer (Data General DG30, Intel's 80286 single-board computer or PC from ABC, Leica, SoftMap or other vendor) with all of its related components that are hard to find, expensive, or no longer available. The original electronics can be replaced with the **BCConversion** with a set of screw drivers. We suggest cleaning, checking, lubricating and calibrating the instrument as well.



This photo shows the module enclosure and the BC adapter cable. To see other enclosures and adapter cables, click on the corresponding link below.

The **BCConversion** consists of:

- Electronics in PC box, rack or module [enclosure](#)
- [BC adapter cable](#) or [BC3 adapter cable](#)
- Power cord
- USB flash drive with real-time operating system and controller software
- [Documentation](#) and all our source code (GNU GPL license version 2) on a CD.

BCConversion features:

- Compatible with original BC3 instrument. Front panel, parallax knob, and all other components work.
- Compatible with LMT electronics (SD2000, SD3000, as well as Aviolyt Upgrades for AC1, BC, DSR, etc.).
- Compatible with mapping software that works with the original BC3 instruments or with LMT electronics.
- Digital design with no analog adjustments needed.
- Each drive has a dedicated controller capable of 30MIPS with a corresponding latency of 167ns, running drive adjustments at 1000Hz.
- Reliable ELCO/EDAC connectors.

Warranty:

If a problem with the **BCConversion** is diagnosed by Adaptable Controllers or an authorized reseller during the first 6 month after purchase, defective parts will be replaced at no cost.

If the **BCConversion** was installed at the same time with all [options](#) by an authorized reseller, defective parts will be replaced at no cost for 2 years from the day of purchase.

Support, Service, and Maintenance:

RenaiSys LLC provides extensive installation, repair, and maintenance services. See www.renaisys.com for contact and price information.

All prices below are unit prices, please contact us for quantity discounts:

BCConversion with all [options](#) and installation by RenaiSys LLC: \$8000

BCConversion: \$4800

BCConversion replacement with return authorization code from Adaptable Controllers: \$800

General terms and conditions are [here](#).

BCConversion options:

- **Digital Measuring Mark Kit [BCMk](#)**: Includes new rheostats, controller, high output LEDs, hardware and wiring, See link for more details.
- **Digital Illumination Kit [BCIK](#)**: Includes new rheostats, high output LEDs, filters, hardware and wiring. See link for more details.
- **Digital Drive Revision Kit [BCDK](#)**: Includes new motors, preventative maintenance and extended warranty.

Limited [documentation](#) is available from our website. With a purchase, schematics, source code, warranties and any support is available. Please call us with any question, comment, or suggestion.

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