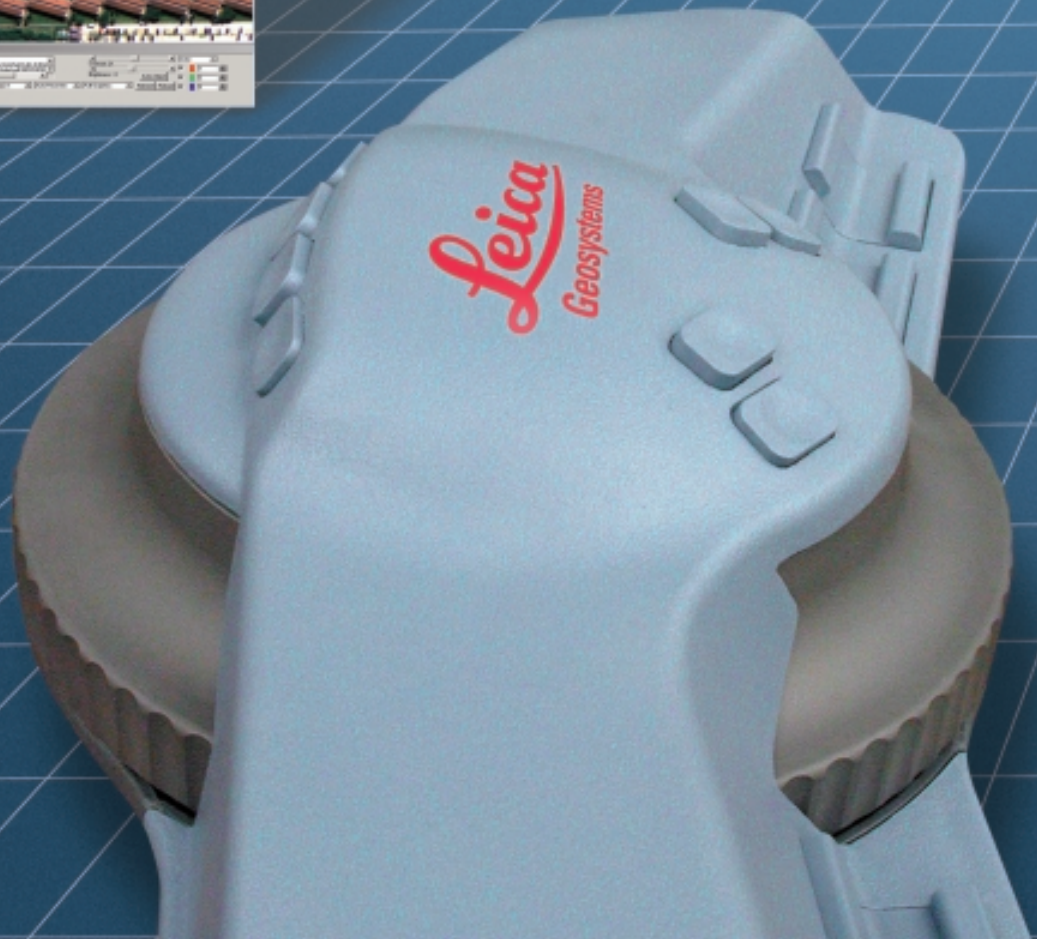
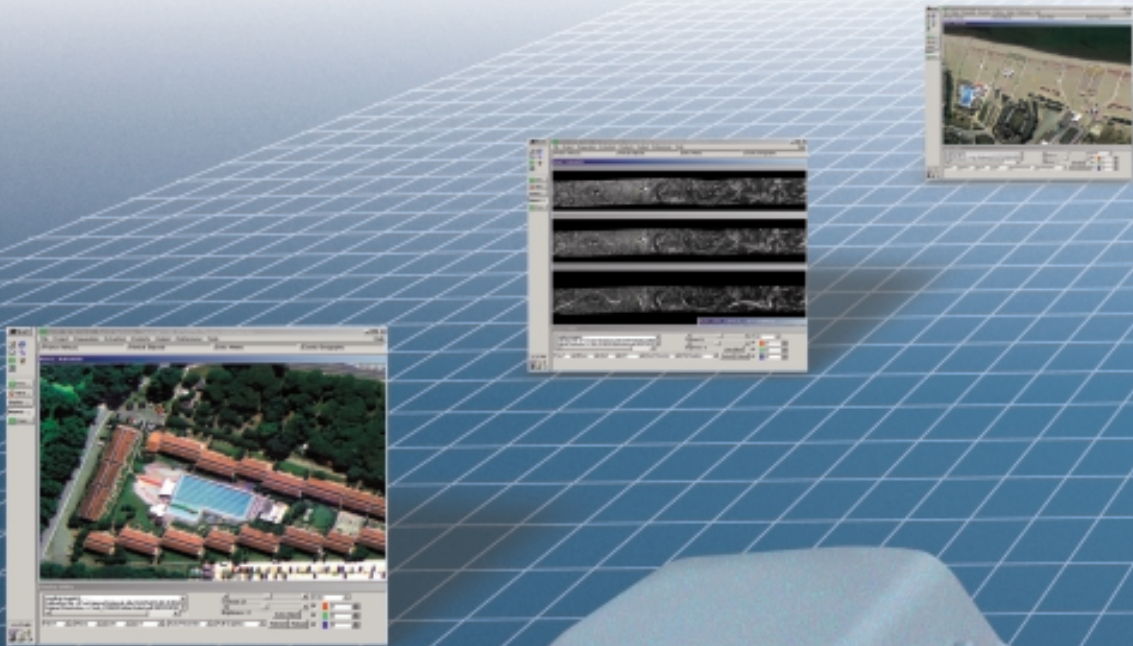


TopoMouse™



Digital Photogrammetry Free-Hand Controller

Leica
Geosystems

TopoMouse™

Digital Photogrammetry In Your Hands

TopoMouse™ is an advanced, ergonomic free-hand device for moving the cursor in stereo models in the X, Y and Z directions on digital photogrammetric workstations and carrying out frequent photogrammetric operations rapidly and efficiently. TopoMouse is the tool for maximum productivity in time consuming, routine tasks such as feature collection and DTM editing.

Expert Design

Leica Geosystems' free hand devices for XYZ control in analogue stereoplotters such as the Wild B8 and Kern PG2, or in analytical stereoplotters such as the SD2000, BC2 and DSR14, are familiar to practitioners throughout the photogrammetric world. TopoMouse is based on the expertise and experience gained from these past successes. Developed by the same teams of mechanical, electronic and industrial designers as Leica Geosystems' DSW500 Digital Scanning Workstation, the new device also draws on ergonomic design principles and inputs from focus groups used to assess products in diverse fields.

Benefits

- High productivity
- Low cost
- Ergonomic design
- Convenience
- Fewer mistakes, especially late in the shift
- Controls up to 30 operations
- Button assignment to particular users, software or projects

Right: the traditional combination of hand wheels and foot disk.

Below: today's set up with TopoMouse and Leica Geosystems digital photogrammetry software. Many career photogrammetrists, and the majority of users who have joined the profession since the rapid growth of digital photogrammetry, prefer a mouse-based device.



Features

Robust, Ergonomic, Customizable

Ergonomic Shape

TopoMouse is compact, for convenient use by many types of operators. For greater comfort, it is also shaped with the “V” inverted from the position used in photogrammetry until now. The metal Z wheel has grip ridges and protrudes for easy thumb or forefinger contact. The color and feel of the device are pleasing to minimize distraction or irritation when tired.

Robust System

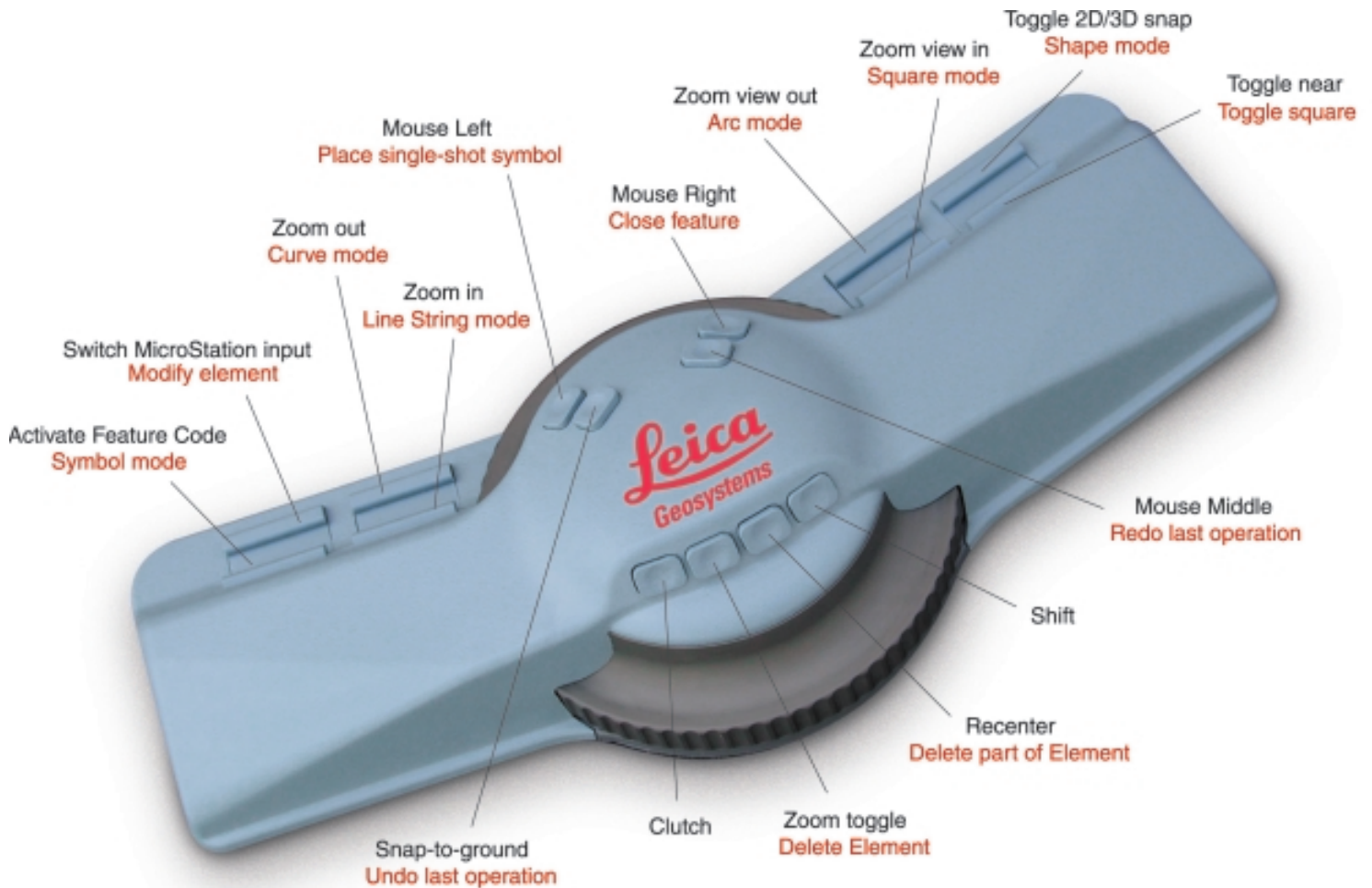
TopoMouse’s button and switch design is built to sustain many millions of presses. The 8 buttons and 4 rocker switches allow 16 operations to be performed from the device. If one button is used as a shift key, the number of operations can be increased to 30.

Customized Design

All buttons and switches are software programmable and can be allocated to operations according to the user’s preference. They can also be assigned to control clutching, shifting, sensitivity, and automatic slewing.

Smooth Operation

TopoMouse employs a highly precise ball mechanism with far more counts, and, therefore, more precise response, than most computer mice. To minimize dirt pick-up and simplify cleaning, the device moves on specially designed plastic (as opposed to felt) pads. The reliable, long-life power supply is designed for worldwide use. TopoMouse receives power and transmits data through a convenient single cable and has an RS232 serial connection to the workstation.



Advantages

High Functionality, Modest Price

TopoMouse is the key to higher output from traditional photogrammetric processes performed by skilled system users. Using TopoMouse to perform routine tasks simplifies complex operations, lessens user fatigue and increases productivity.

- No more irritating stoppages for cleaning or swap out
- No digitizing tablet required in workstation table
- Adaptable to different users and software packages

Customer Support

At Leica Geosystems, you find the professionals with whom to discuss your requirements and the techniques to address them: specialists for aerial photography, experienced photogrammetrists, engineers, as well as service and maintenance specialists. Leica Geosystems' skilled personnel advise customers on questions of application techniques, installation, interfaces, accessories, up-grades, maintenance, etc.

Regular user training courses and workshops given at various Leica Geosystems locations help users with the operation and maintenance of Leica Geosystems' products. These courses also give the opportunity to exchange practical experience with other operators. In addition, Leica Geosystems organizes specific customer training courses at the customer's site.

Please check our Web site www.gis.leica-geosystems.com for relevant product announcements. If you need more information, contact your local Leica Geosystems office or distributor, or contact us by e-mail at info@gis.leica-geosystems.com.

Specifications

Physical Attributes

length: 5" (127 mm)
width: 11" (279 mm)
height: 2.5" (64 mm)
weight: 0.45 kg

Buttons 8 standard; 4 rocker switches, each with two positions; buttons distributed equally to each hand

Button Allocation Completely flexible, through software

Power Dual voltage power supply supplied: 90-264V, 50-60 Hz, with cable

Connection RS232 serial; cable supplied

Electronics Internal to mouse

Z control Large wheel, accessible front and back of mouse

XY motion High precision encoders and extra-large mouse ball

Z motion High precision encoder with extra-large Z wheel

GIS & Mapping Division



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