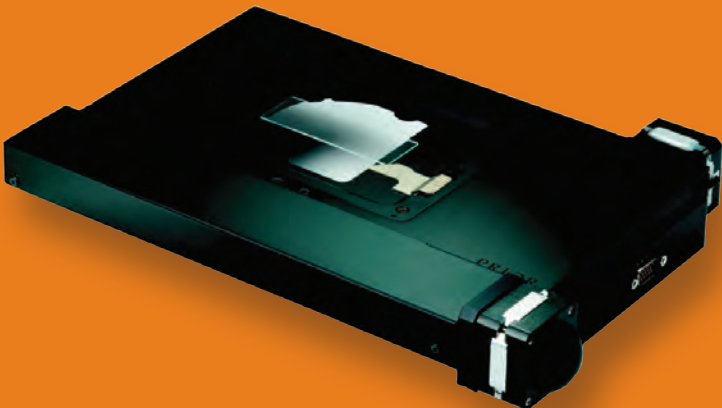




X-PRO 210

- Following the philosophy of technology research and Continuous development, echoLAB realized in partnership with PRIOR SCIENTIFIC, leader in microscope automation, a new microscope system with motorized stage and auto-focusing feature, to meet customer's requirement.
- X-PRO 210 motorized system for upright material science microscopes:
  - UM 210DIC
  - UM 210BD
  - UM 210
- System composed by motorized stage ES111, designed by PRIOR SCIENTIFIC, to integrate the OptiScan III controller and fits with upright microscopes.



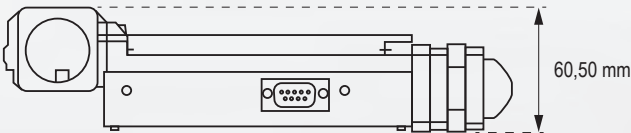
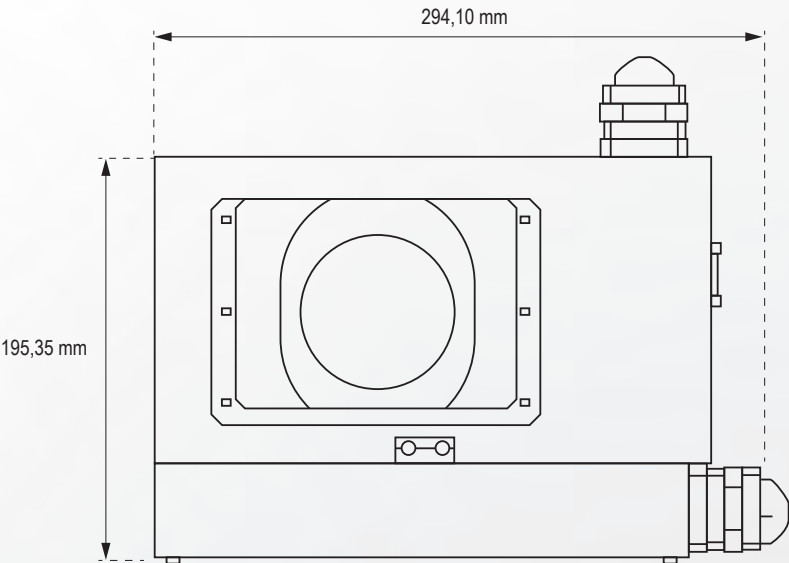
X-PROES111 Motorized stage

- X-PROES111 offers high level of flexibility. It is the perfect choice for researchers who require a precision motorized stage.
- The motorized stage is designed to accomodate a complete range of specimen holders including polished metallurgical samples.

Features:

- Compatible with the entire range of specimen holders, including standard slide holders and a several type of metallurgical specimen holders.
- The unique S curve acceleration algorithm allows fast, smooth positioning without vibration, reducing disruption to samples.
- Controllable via joystick, RS232 or USB

| Model           | X-PROES111                         |
|-----------------|------------------------------------|
| Travel Range    | 125x75mm                           |
| Repeatability   | ±5µm                               |
| Resolution      | 1µm                                |
| Linear slides   | 3mm ball bearing                   |
| Drive mechanism | Anti-backlash precision lead screw |
| Limit switches  | X and Y standard, semi adjustable  |



## X-PRO 210

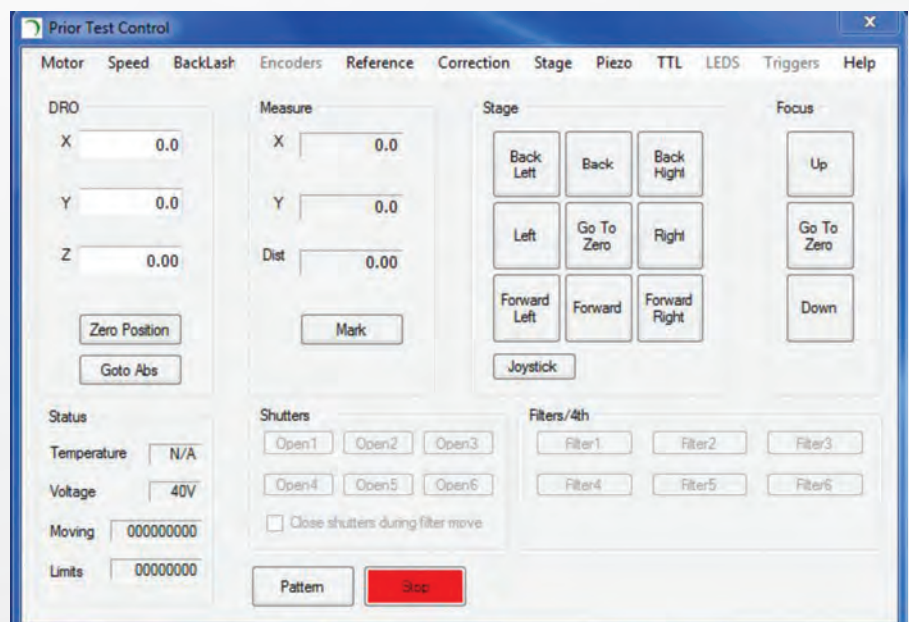
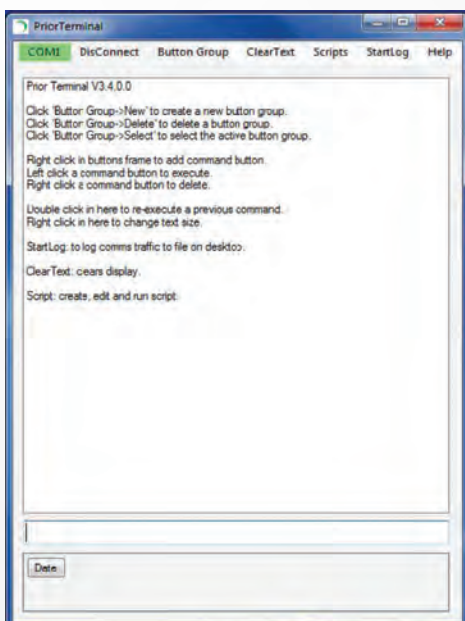
### X-PROES11 OptiScan Controller

- > X-PROES11 is suited for routine applications with an affordable combination of quality and reliability.
- > Motorized stages, focusing mechanisms, filter wheels and shutters can be combined to match your specific needs, providing flexibility and a simple path to future up-grades.



### Software

- > X-PROES11 controllers are supplied with software development toolkit which includes comprehensive dll, VB demo program and a full complement of ASCII commands. The developer can use either the USB or the RS232 serial port for software communications.
- > Through software is possible to move the stage and focusing directly from PC by two methods:
  - 1) Text file editing, with all commands for stage and focus.
  - 2) Using software like a joystick or inserting coordinates X,Y and Z for sample movement in the desired position.



## X-PRO 210

### Joystick X-PROCS152DP

- Three axis joysticks for X,Y and Z manual control, available with stage systems to provide fast and responsive control
- Two programmable Hot Keys for a variety of system controls.



### Focus drive X-PROPS3H122R

- No twist cable connection
  - 0.002µm minimum step size
  - Easy to install
  - Optional encoder available
  - Up to 20Rev/s top speed. Simple easy to fit Z solutions for most microscopes
  - The motorized focus control provides step sizes as small as 0.002µm, giving excellent resolution for precise and repeatable focusing in the Z-axis. For large movements when speed is required, the focus motor can be driven at speeds of up to 20 revolutions per second
  - Optional probe style encoder provides highest accuracy and repeatability
  - Drive with rotating cable system, designed to prevent cable twisting
- The focus motor can be controlled by OptiScan III control system.



## X-PRO 210

### Sample holders

> Wide range of sample holders available for one or more samples per time:



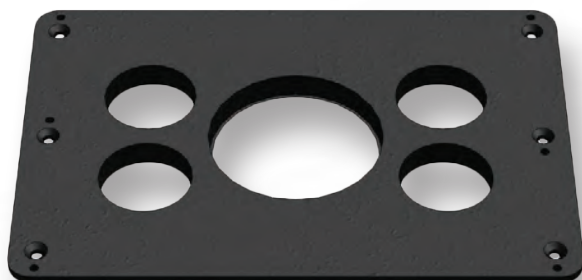
#### X-PROH473UP:

> Universal Holder, for upright material science microscope for sample up to ø90mm or 76x26mm



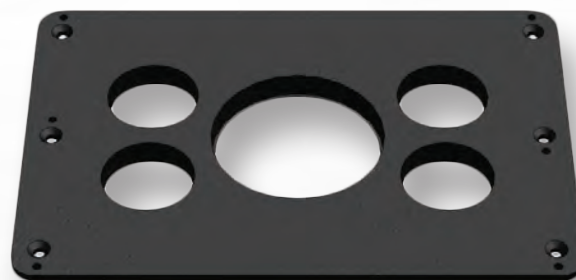
#### X-PROH649:

> Miscellaneous sample holder for a single ø25.5mm, ø31mm and ø38mm mounted metallurgical specimen at the same time



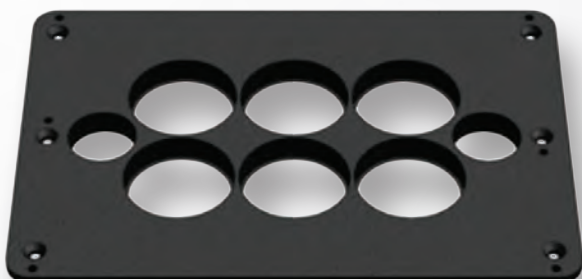
#### X-PROH656:

> Sample holder for one mounted metallurgical specimen ø31mm



#### X-PROH657:

> Sample holder for one mounted metallurgical specimen ø50mm



#### X-PROH658:

> Sample holder for six mounted metallurgical specimens ø31mm



#### X-PROH659:

> Sample holder for one mounted metallurgical specimen ø38mm



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