

PLW20 Well Plate Loader System

High Speed Well Plate Slide Loader System



Prior Scientific is pleased to introduce the latest in Prior's Robotic Sample Loading Systems – the PLW20 Well Plate Loader. Adaptable to most modern inverted microscopes, the simple, rugged and compact PLW20 provides three independently controlled and encoded axes for rotational, vertical and horizontal movement. Combine the PLW20 with a Prior ProScan stage for your inverted microscope and you have a system designed specifically for high content screening applications with a capacity of 20 well plates (two racks of 10 each). The two stainless steel racks provided with each loader accommodate covered and uncovered well plates up to 19mm in height. Sensors monitor the presence of well plate racks so that the system can be programmed to respond when racks are changed in the middle of a run. Upon detection of a newly installed well plate rack, a unique well plate detection system is able to automatically scan and identify the quantity of well plates in each rack, their location and to scan the barcodes (optional) and store that information for future use. A comprehensive Software Development Kit is supplied with each PLW20 making integration with third party software packages very straightforward. Additionally, the DLL provided with the PLW20 is compatible with both ProScan™II and ProScan™III stage and focus controllers.

General Specifications:

- 20 well plate capacity (2 racks with 10 well plates in each rack)
- Custom ProScan H117 flat top stage with internal well plate detection sensor
- 29 second load/unload cycle
- Compatible with covered and uncovered well plates
- All axes encoded for perfect placement
- Compact design utilizing less than 0.47m² of bench space
- Fits all standard microtiter plates up to 19mm thick
- Quiet operation for laboratory environment
- Optional 2D barcode reader
- Multiple sensors ensure safe and accurate transfers between racks and microscope stage
- Stainless steel racks for easy cleaning
- Compatible with most modern inverted microscopes
- Supplied with a comprehensive Software Development Kit, the loader allows the user full control of the loading and unloading processes.

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Performance Specifications

Capacity	20 well plates (in two racks of 10 plates in each rack)
Communications	USB communication
Scanning Stage Compatibility	Compatible with ProScan H117 inverted stages (please call)
Footprint	Compact unit occupies only 0.47m ² of bench space
Dimensions	84cm (W) x 55cm (D) x 66cm (H)
Input Voltage	100 - 240V AC
Regulatory Compliance	Fully CE compliant
Load/Unload Speed	29 seconds per cycle

Plate Management Systems

Rack Sensor	Racks can be swapped while unit is running
Well Plate Detection	Racks are scanned for plates present. Plates are barcode read prior to loading for random access
Handling Sensors	Well plate presence sensors are built into both the gripper arm and stage insert to confirm safe and accurate transfer
Barcode Readers	Optional 2D reader available

Ordering Information

Part Number	Description
PLW20	Well plate loader system
PLW106	Barcode reader for well plate loader system

