

Titertek Titan Plate Stacker

Innovadyne Technologies introduces the **Titertek Titan plate stacker** as an integrated benchtop peripheral for use with all **Nanodrop** systems for unattended high-throughput operations.

As the Titan's telescoping arm delivers one or two plates to the Nanodrop stage, it is guided into a registered position by a docking platform, enabling the Nanodrop to aspirate from and dispense to, accurately positioned plates. After the dispense protocol the plates may be restacked or transferred to other devices, such as plate incubators, plate readers, and washers, that can be placed on the far side of the stacker. An optional gripper tool can transfer the plates from the shuttle to these peripherals.



The Titan is fully controlled by user-configurable steps in Innovadyne's Nanobuilder© software, enabling seamless installation and eliminating the need to develop custom interfaces. While the stacker is delivering and restacking plates, the Nanodrop can perform wash and aspirate operations in parallel, reducing total cycle time.

Low-profile and deep-well plates are supported. The Nanodrop and the Titertek Titan is a powerful solution for flexible bench top HTS applications in your lab. The small footprint allows the user to place the entire integrated device into a standard laboratory hood.

Features

- Two 384-well plates dispensed to and restacked in approx. 25 seconds
- Docking platform registers plate arm onto the stage for accurate plate positioning
- Stacker operations initiated by user-configurable Nanobuilder steps
- Stacker and liquid handler perform some operations at the same time in parallel
- Stacker and stage held in position relative to each other with an adjustable bracket
- Optional accessories permit additional peripherals to be accessed from the stacker (plate washers, plate readers, incubators, bar code readers)

Applications

- Assay Development
- HTS reagent dispensing
- Cell dispensing
- PCR master mix additions
- Primer dispensing
- Sequencing reactions
- Serial Dilutions/IC 50s
- Protein Crystallography
- MALDI plate preparation

Performance Specifications

Cycle Element Times	Value
Plates to Nanodrop	10 seconds, 2 plate retrieval from stack and delivery to stage
Dispense to 2 plates	27 seconds (aspirate, dispense, wash)
Restack Dispensed Plates	6 seconds, 2 plate removal from stage and restacking

Dimensions -- Titertek

Dimension	Titertek Titan
Height (magazines removed)	15.5 cm (6 in)
Height (with magazines)	58.5 cm (23 in)
Width	37 cm (14.5 in)
Depth	42 cm (16.5 in)
Weight	22 kg (50 lb)

Dimensions -- Nanodrop II Stage

Dimension	Nanodrop II Stage
Height	32.3 cm (12.7 in)
Width	53.6 cm (21.1 in)
Depth	24.6 cm (9.7 in)
Weight	13.4 kg (29.5 lb)

Dimensions -- Combined

Dimension	Titan and ND-II Stage
Width	71.6 cm (28.2 in)
max Depth	42 cm (16.5 in)
max Height	58.5 cm (23 in)