

## InnovaSystems, Inc. Technology Engineering

- Nasal Spray Products Universal Actuator (NSP UA)
- Automation of FDA Recommended Tests
- Multiple Actuation Modes
  - Reproducible Velocity, Force and Stroke Length
- Every Actuation Monitored Pass/ Fail
- Easy Transfer of Actuation Parameters
- Graphical Output
- Eliminate Repetitive Motion
- Superior Accuracy and Reliability

# **NSP UA** – Automated Actuations

And More ...

## The NSP UA...

Automates the routine Actuation of your Nasal Spray Products. Allows the User to select velocity or force mode actuation for testing the product. New Linear-motor technology makes the NSP UA the most accurate and reliable actuator on the market

It is easy-to-use; just place the bottle on the platform, select a stored method, and start. The Station sprays the bottle with reproducible velocity, force and stroke length while monitoring the actual velocity, force and distance.

Supports 21CFR Part 11 Compliance and simplifies validation with IQ/OQ documentation included.

### Includes

- Actuation Station & Controller
- Calibration Kit for Force
- Actuation Software

### Options

- Computer
- Waste Spray Containment
- Fan Hood
- Vertical Mount

### **Specifications**

Space Requirements	Height	Width	Depth
<ul><li>Actuator</li><li>I/O Controller</li></ul>	6.6in 9.8in	4.2in 9.6in	9.8in 13.0in
	Power		
Utilities	110/220 VAC 50/60 Hz		

#### ... Automation for Nasal Spray Product Testing



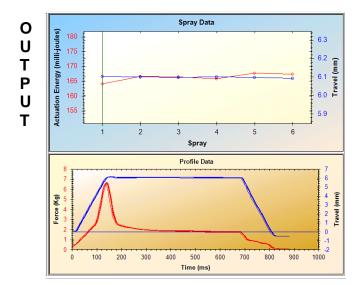
Dose Weight
Collection for Content Uniformity
Droplet Size





## PARAMETERS

🚺 NSP U	iversal Actuator	- •
File	Tools Help	
Status:	idle Postion: 5.500 mm Force: -0.015 kg Run Setup	
	Run Product Data Calibration	Utilities
	Product File: Solds ZE Velocaty   Last Edited: 4/6/2010 4 25 31 PM Comment Approved	Seve Ae New Select Folder
	Actuation Mode: Velocity   End Travel Bottle/Stage Height (mm): 23.0	Mode: Motion  - Spray Verification Limits - Min Max
		s (sec): 0.5 * 7ravel: 5 * 25 *
		y (sec): 1.0 🚖 Energy: 165 🚖 220 🜩
	Actuate Velocity (mm/s): 70 (mm/s): 70 Max Fore Release Velocity (mm/s): 70 (mm/s):	e (Kg): 6.0 . Volocity: 20
		Trigger Out Delay (sec): 1.23
	Test Staging Home Stop	Test Actuation         1         +         Actuation #:           Travel (mm):         Energy (mll/soles):            Velock (mm/s):



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