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nano pen
NANO PEN Series 



Item	Model	NANO PEN 3	NANO PEN 5	NANO PEN 10	NANO PEN 30
Dimension (AxBxCxD)		20x16x25x155(mm)	20x18x25x155(mm)	20x23x28x173(mm)	20x30x35x198(mm)
Weight		118g		300g	
Viscosity		1~500,000cps			
Screw Pitch		0.8mm		1.0mm	1.25mm
Stroke		45mm			
Displacement Step		0.0001mm/step		0.001mm/step	0.0006mm/step
Section of Barrel		70.88mm ²	124.69mm ²	196.07mm ²	401.15mm ²
Volume by Step	Normal res.	3.6 μl /step	12.7 μl /step	25 μl /step	138 μl /step
	High res.	1.9 μl /step	6.84 μl /step	13.4 μl /step	138 μl /step
Using Barrel		3cc	5cc	10cc	30cc



A pen-type dispenser that does not need to use air and can precisely dispense very small amounts with a motor-driven method.

It is a new concept of dispenser that can conveniently and stably dispense ultra-fine amounts.

-Dosing volume-

NANO PEN 3 : 1.9μl/step

NANO PEN 10 : 13.4μl/step

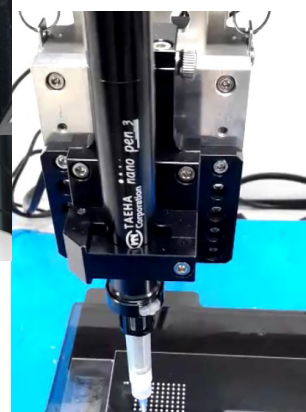
NANO PEN 5 : 6.84μl/step

NANO PEN 30 : 138μl/step

The magnet applied inside the nano-pen makes it easy to change barrels and set up.

With its simple and compact design and structure, it is easy to configure an automated line or a multi-layer system, and it can be applied to various applications due to the high-speed discharge.

※ Barrels with a 3, 5, 10 and 30cc capacity can be applied. A barrel and a plunger dedicated for each barrel must be used.



The compact pen-type high-precision dispensing system quantitatively discharges very small amounts via the motor drive and electronic methods without air-pressure

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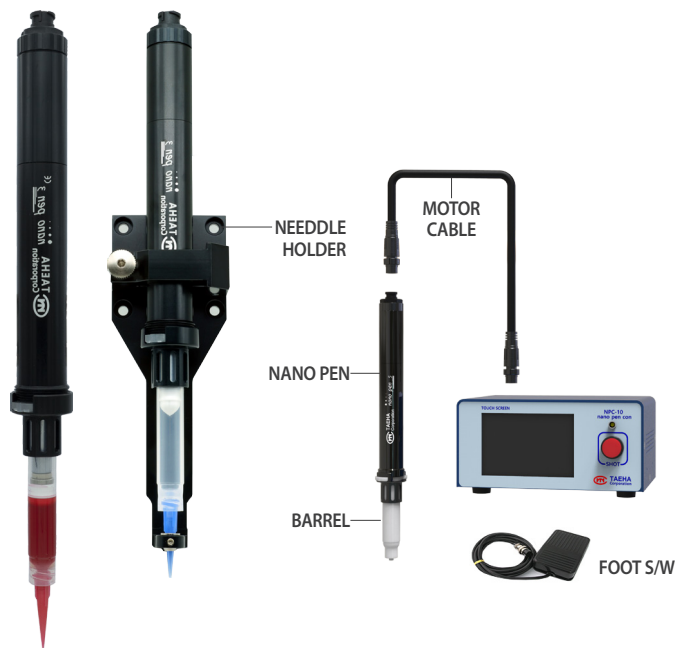
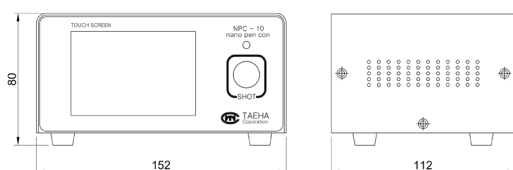
SPEC Series

NANO PEN BASIC SYSTEM

The Nano Pen System has a dedicated controller (NPC-10) and a nano-pen as a default to discharge a very small amount stably and with high-precision. **The NPC-10** is a dedicated controller for the nano-pen basic system and has digital multi-functions, so you can easily control the discharge volume with just a simple operation.



NPC-10	
Dimension(WxHxD)	158x80x110(mm)
Weight	932g
Power Input	DC 9V/2A
Power Consumption	15W
Operating Mode	TIME / STEADY/ SEQUENCE / INTERVAL
Display	3.2" Touch Screen
Interface	RS485(MODBUS)
Input Signal	Contact Input
Output Signal	NPN Open Collector
STD Component	Power cord, Motor Cable, Foot S/W



NANO PEN WITH VALVE SYSTEM

It's possible to discharge a very small amount of liquid containing a filler (with low to high viscosity) at the size of $\varnothing 0.5$ or less by applying an anti-drip valve (refer to ADV5/ADV7, p23) to the NANO-PEN.

It removes residual pressure that may occur when micro-spot dispensing is applied, and it prevents dehydration cakes, preventing the clogging of the nozzle tip due to filler. **The NPC-10V** is a dedicated control device for the nano-pen with a valve system that can control various dispensing conditions stably and easily with just a simple operation by providing multiple functions digitally. With the color touch screen, the operator can control the data easily and clearly.



NPC-10V	
Dimension(WxHxD)	215x109x172(mm)
Weight	1.5kg
Power Input	100-240V/60Hz
Power Consumption	3A(75W)
Operating Mode	TIME / STEADY
Display	5" TFT LCD
Interface	Touch Panel, Button, Rotary Knob
Input Signal	Contact Input
Output Signal	NPN Open Collector
STD Component	Power cord, Motor Cable, Foot S/W

