

# HIGH PRECISION DISPENSERS

Ultimus™ I, II and III



## Features and Benefits

- All-digital, multi-function display
- 16 memory settings
- 4-decimal time setting
- Multilingual display
- Operator security lockout
- High-speed solenoid for highly accurate deposits
- Universal power supply

## Specifications

**Cabinet size:** 14.3W x 18.1H x 17.3D cm  
(5.63"W x 7.12"H x 6.82"D)

**Weight:** 2.3 kg (5.0 lb)

**Cycle rate:** Exceeds 600 cycles per minute

**Time range:** 0.0001 to 999.9999 seconds

**Input AC**

(to power supply): Universal Multi Voltage  
100-240 VAC, 50/60Hz

**Output DC**

(from power supply): 24 VDC, 1.04 Amp maximum

**End-of-cycle feedback circuits:**

5 to 24 VDC, 100 mA maximum

**Initiate circuits:** Foot pedal, finger switch or 5 to 24 VDC signal

**Approvals:** CE, CSA, RoHS, WEEE & China RoHS Compliant

**Warranty:** 10 year, no-fault

Featuring simultaneous digital display of all dispenser settings and time adjustment as fine as .0001 seconds, Ultimus dispensers bring exceptional process control to medical device, electronics and other critical dispensing processes.

Each dispenser kit includes:

(1) adapter assembly

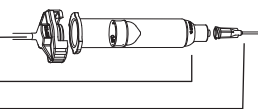
(2) boxes of syringe barrels/pistons

(2) boxes of dispensing tips

(1) box of tip caps

omnidirectional foot pedal

cabinet-mounted barrel holder



**7017041 (2400) Ultimus I:** Features a 0-100 psi (0-7 bar) pressure regulator that handles all fluids.

**7002003 (2415) Ultimus II:** Has a 0-15 psi (0-1 bar) regulator that provides greater control when dispensing thin fluids.

**7017068 (2405) Ultimus III:** Uses a 0-5 psi (0-0.35 bar) regulator for dispensing micro-deposits of solvents and other very thin fluids.



# HIGH PRECISION DISPENSERS

## Ultimus IV Series



Positive displacement dispensers are ideal for applying uniform amounts of 2-part epoxies and other fluids that change viscosity over time. Compressed air is not required—instead, these electrically operated units use stepper motors and patented technology to advance and retract a piston inside the syringe barrel. They will produce accurate, repeatable deposits, regardless of changes in fluid viscosity or temperature.

### Features and Benefits

- Highly repeatable, precise fluid control
- Non-pneumatic, shop air not required
- All-electric, multi-function display
- Programmable pullback stops drooling
- 100 user-defined memory cells

### Specifications

**Cabinet size:** 18.4W x 8.1H x 32.3D cm  
(7.25"W x 3.18"H x 12.73"D)

**Weight:** 3.7 kg (8.2 lb)

**Cable assembly:** 1.8 m (6 ft)

**AC input voltage:** 100-240 VAC

**AC input frequency:** 50/60Hz

**Initiate circuits:** Foot pedal, cycle start button  
or 5 to 24 VDC signal

**Approvals:** CE, RoHS, WEEE & China RoHS Compliant

**Warranty:** 2 years, no fault

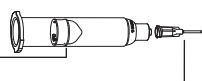
**7017178 (2800-3):** For 3cc syringe barrels

**7017181 (2800-5):** For 5cc syringe barrels

**7017177 (2800-10):** For 10cc syringe barrels

**7017179 (2800-30):** For 30cc syringe barrels

Each dispenser kit includes:  
(2) boxes of syringe barrels/red pistons  
(2) boxes of dispensing tips  
(2) boxes of tip caps  
foot pedal  
cabinet-mounted barrel holder



### ULTIMUS MODELS AND FEATURES

FEATURES	Dispense Time Display	Air Pressure Display	Adjustability			Modes of Operation				Time Range	Air Pressure Range			Input/Output	Universal Voltage	Warranty (Years)	
MODELS	Digital	Digital	Time	Air	Vac	Steady	Timed	Volumetric	Teach	0-999.9 sec.	0-100 psi (0-7 bar)	0-15 psi (0-1 bar)	0-5 psi (0-0.35 bar)	5-24 VDC Signal	100-240 VAC 50/60Hz	2	10
Ultimus I	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			✓	✓		✓
Ultimus II	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓		✓
Ultimus III	✓	✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓		✓
Ultimus IV						✓		✓						✓	✓	✓	

# HIGH PRECISION DISPENSERS

## Dispenser Accessories



PART #	ACCESSORY	DESCRIPTION	ULTIMUS I-III	ULTIMUS IV
7017105	Flex arm syringe barrel holder	Mounts to dispenser cabinet; can be adjusted to multiple positions	✓	
7017113	Stiff arm syringe barrel holder	Mounts to dispenser cabinet and holds barrel in fixed position	✓	
7017131	Finger switch	Ergonomic hand grip with built-in touch sensor and high beam penlight	✓	
7017089	Finger switch	Low voltage, push button finger switch controls dispense cycle	✓	
7017288	Syringe barrel production stand	Provides full-barrel swivel, horizontal and vertical adjustment. Accepts all EFD barrels.		✓
7021053	Syringe barrel production stand		✓	
7017122	Workstation lamp	Mounts on flex arm and provides targeted lighting on work area	✓	
7017119	Safety shield	Provides splash protection	✓	✓
		Accessory mount (1 required for use with Ultimius IV - #7017185)		✓
7017138	Production extension shelf	Provides flat work surface for other tools or dispenser stacking	✓	
7017135	Magnifying lens	1.7x magnification mounts on flex arm	✓	
		Accessory mount (1 required for use with Ultimius IV - #7017185)		✓
7017143	8-pin I/O connector assembly	Allows easy connection to dispenser for external control	✓	✓
7017049	Cleanroom filter muffler	Filters output air to meet Fed 209-B (0.5 micron particulates)	✓	
7017167	Vacuum pickup pen system	Vacuum generator and pen system for picking and placing small parts	✓	

PART #	ACCESSORY	DESCRIPTION
7013229	Dispensing tip sampler kit	Includes a selection of various types and styles of dispensing tips, pistons, tip and end caps—158 pieces
7024803	VacTweezer™ pickup tool	Useful, low cost pick-and-place tool with staticide treated kit. Includes (7) tips, (5) pad sizes
7002002	Five-micron filter regulator	Provides proper air filtering for all dispensers. Order if you do not have a clean, dry, filtered factory air supply.
7016548	Five-micron filter regulator with coalescing filter	Five-micron filter regulator with coalescing filter  Recommended for systems dispensing cyanoacrylates  Removes liquid aerosols from air supply
7021515	Coalescing filter assembly only	
7016540	Filter element replacement kit	

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