

# SmartDispenser™

## MDAV CYANOACRYLATE SYSTEM



### SmartDispenser™

#### Medium Dot Any Viscosity

Use this model for dispense volumes between .00045 & 30cc., ideal for medium dot and medium to short bead dispensing, while maintaining repeatability 6 to 10 times greater than pneumatic systems. For use with industrial grade Genius syringes and dispense tips.

MDAV-CA

Medical device and other manufacturers have been attracted to cyanoacrylate, also known as "CA" or "super glue," because of its short cure time and great bond strength. Available in thin fluids or gels, the adhesive reacts with moisture ions on the surface of the conjoining substrates, thus creating the bond. The bond strength is greatly impacted by the application of the adhesive to the substrates. Too much adhesive may keep the bond from curing properly while too little adhesive may cause the bond to fail.

The SmartDispenser™ CA delivers all the benefits of the SmartDispenser™ but is completely contained in the polypropylene syringe. Genius™ PosiLok™ pistons and tip caps are manufactured with a proprietary plastic that inhibits bonding between the cyanoacrylates and polypropylene. This positive displacement system, removes unreliable moisture-filled air from the dispensing process ensuring good bond strength.



### Genius™ CA PosiLok™ Pistons & Tip Caps

- Genius polypropylene and Teflon Tips
- Available in .25", .5", 1", 1.5"
- Free of molding flash and burrs
- Free from contaminants

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## MDAV-CA Medium Dot Any Viscosity

| SYRINGE SIZE         | 3CC    | 5CC    | 10CC   |
|----------------------|--------|--------|--------|
| MIN. VOL. (CC)       | .00023 | .00039 | .00065 |
| MAX. VOL. (CC)       | 3.0    | 5.0    | 10.0   |
| MIN. RATE (CC/SEC)   | .006   | .010   | .016   |
| MAX. RATE (CC/SEC)   | .138   | .238   | .392   |
| MAX. BACKOFF (STEPS) | 500    | 500    | 500    |
| MAX. DELAY (SEC)     | 9.99   | 9.99   | 9.99   |



The SmartDispenser™ MDAV (3-10cc) comes with 3-10cc LDS Dispense Gun and 3, 5, 10cc Retaining Rings.

| SYRINGE SIZE         | 30CC   |
|----------------------|--------|
| MIN. VOL. (CC)       | .00129 |
| MAX. VOL. (CC)       | 30.0   |
| MIN. RATE (CC/SEC)   | .032   |
| MAX. RATE (CC/SEC)   | .771   |
| MAX. BACKOFF (STEPS) | 500    |
| MAX. DELAY (SEC)     | 9.99   |



The SmartDispenser™ MDAV (30cc) comes with 30cc LDS Dispense Gun and 30cc Retaining Rings.

## Genius™ Dispensing Components treated specifically for CA dispensing

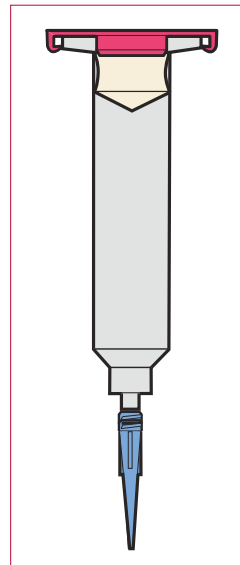
Genius™ CA dispensing components are designed specifically for cyanoacrylate dispensing, achieving optimized performance for all CA applications.

### Syringes (available in 4 sizes)

- CA Proprietary plastic inhibits bonding between the CA and polypropylene
- Thickwall design eliminates flexing
- Precision molded zero degree taper assures smooth flow
- Disposable design eliminates need for cleaning

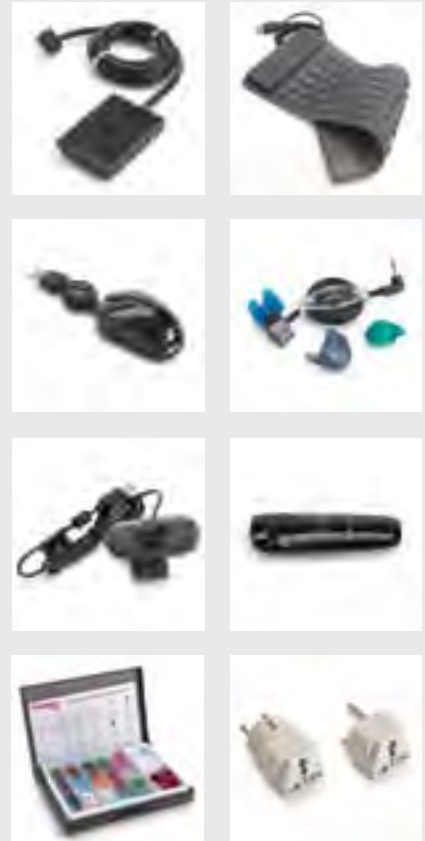
### PosiLok™ Pistons

- Genius™ design featuring patented PosiLok™ piston attachment for positive displacement dispensing
- Precision molded for positive displacement dispensing. Precise interference fits assure zero flexing and high fluid dispense repeatability.
- Engineered for precise through the luer filling push piston up the barrel for an air free fill



### SMARTDISPENSER™ MDAV-CA 3-30CC DISPENSE STARTER KIT CONTENTS

- Foot Pedal
- Keyboard
- Mouse
- Earphone
- Video Camera
- Needle Kit
- Manuals
- Power Supply Connection
- Universal Power Supply





# SmartDispenser™ MDAV CYANOACRYLATE SYSTEM



## SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Usage:                   | Indoor use  |
| Altitude:                | Up to 2000m   |
| Temperature:             | 0° to 40° C   |
| Maximum Relative:        | 80% for temperatures up to 31° C decreasing linearly to |
| Humidity:                | 50% relative humidity at 40° C                          |
| Mains Supply             |   |
| Voltage Fluctuations:    | Not to exceed $\pm 10\%$                                |
| Installation             |   |
| Overvoltage:             | Category II   |
| Pollution:               | Degree 2, Class 1                                       |
| Input Voltage:           | 100-240 VAC<br>47-63Hz                                  |
| Max Inrush Current:      | 3.2A-1.8A   |
| Output Voltage:          | 5.0VDC  |
| Output Power:            | 4.6W  |
| Fuse Rating:             | 1.0A/250 VAC  |
| Initiate Circuit:        | Foot Pedal (dry contact)<br>finger switch               |
| Drive Motor:             | SDAV 3.75 Degree<br>96 Steps/Rev                        |
| Axial Movement:          | SDAV .012 Axial Pitch<br>.000125"/Step                  |
| Control Circuitry:       | CMOS microprocessor                                     |
| Interface:               | Tactile key pad   |
| Minimum Dispense Volume: | 0.00023ml   |

## CONTROL CENTER

|         |   |
|---------|---|
| Size:   | 5.6 x 9.9 x 6.3in<br>(14.23 x 25.15 x 16cm) |
| Weight: | 4.7lbs (2.13 kg)                            |

## LDS DISPENSE GUN

|               |                                     |
|---------------|-------------------------------------|
| Length:       | 7in (17.8cm)                        |
| Weight:       | 6oz (170.1 gr)                      |
| Cable Length: | 3in or 3 feet<br>(7.62cm or 91.5cm) |