

# pipetmax®

## Maximize Reproducibility of Your Biological Sample Prep

SPEC SHEET | LIQUID HANDLING

PIPETMAX®

**Maximize pace and capabilities with the ultimate lab assistant**

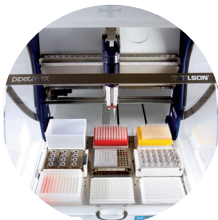
**Maximize consistency in routine pipetting tasks**

**Maximize reproducibility in biological assays**



### PIPETMAX Versatility

- Ideal for PCR, qPCR, cell-based assays, NGS prep, ELISA prep, and tip-based sample prep all on the same PIPETMAX
- Flexible settings for various sample types, including aqueous, cells, tissue cultures, and biological fluids
- Large working volume dynamic range of 1-1200  $\mu$ L
- Many types of labware and devices: 96- and 384-well microplates, strip plates, and cell culture formats
- PIPETMAN® standards in reproducibility, precision, and accuracy
- Easy configuration and run with a simple, user-friendly interface



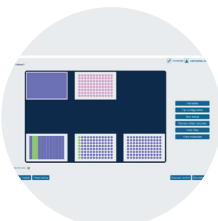
#### Free yourself from tedious sample prep work

Let PIPETMAX prepare samples for you! Enjoy more freedom away from the bench and focus on what's important—your next discovery.



#### Reliable and consistent results

With PIPETMAN inside, you can trust your pipetting to be reliable and consistent—plate to plate, lot to lot, time after time.



#### A truly configurable system

Configure your runs using any reagent and any protocol you want. The hardware and software are built to be adaptable to the unique needs of your research.



#### Versatile

Your choice of hardware to fit your needs and pipette heads can be calibrated like PIPETMAN.

# TECHNICAL SPECIFICATIONS - PIPETMAX® 268

| MAXIMUM PERMISSIBLE ERRORS              |              |             |                       |                   |                      |                  |
|---|--------------|-------------|-----------------------|-------------------|----------------------|------------------|
| Volumetric Specifications For Transfers | Pipette Head | Volume (µL) | Systematic Error (µL) | Random Error (µL) | Systematic Error (%) | Random Error (%) |
|   | MAX8x20      | 1           | ±0.08                 | ≤ 0.05            | 8.00                 | 5.00             |
|   |              | 10          | ±0.15                 | ≤ 0.10            | 1.50                 | 1.00             |
|   |              | 20          | ±0.25                 | ≤ 0.12            | 1.25                 | 0.60             |
|   | MAX8x200     | 20          | ±0.50                 | ≤ 0.16            | 2.50                 | 0.80             |
|   |              | 100         | ±1.00                 | ≤ 0.30            | 1.00                 | 0.30             |
|   |              | 200         | ±2.00                 | ≤ 0.50            | 1.00                 | 0.25             |
|   | MAX4x1200    | 50          | ±4.00                 | ≤ 0.70            | 8.00                 | 1.40             |
|   |              | 120         | ±4.00                 | ≤ 0.70            | 3.33                 | 0.58             |
|   |              | 600         | ±6.00                 | ≤ 1.50            | 1.00                 | 0.25             |
| 1200                                    |              | ±9.60       | ≤ 1.80                | 0.80              | 0.15                 |                  |

| Pipette Heads and PIPETMAN® DIAMOND Tips<br>(Sterilized option available for some tips) | Pipette Head | PIPETMAN® DIAMOND Tips | Pipette Head Volume Range (µL) | Flow Rate Range (mL/min) |             |
|---|--------------|------------------------|--------------------------------|--------------------------|-------------|
|   | MAX8x20      | DL10                   |                                | 1-20                     | 0.0225-3.75 |
|   |              | DFL10                  |                                | 1-10                     |             |
|   |              | DF30                   |                                | 1-20                     |             |
|   |              | D200                   |                                | 1-20                     |             |
|   | MAX8x200     | D200                   |                                | 20-200                   | 0.225-37.5  |
|   |              | DF200                  |                                | 20-200                   |             |
|   | MAX4x1200    | D1200                  |                                | 50-1200                  | 1.125-187.5 |
|   |              | DF1200                 |                                | 50-1200                  |             |

|   |  |  |
|---|--|--|
| <b>Communication</b>                              | USB  |  |
| <b>Connections</b>                                | Three USB host ports and one USB device port<br>Two inputs (contact closure, TTL), two relay outputs, and one switched ±12V DC 1A output<br><b>NOTICE: Switching voltages higher than 30V or greater than 1A of current may damage the instrument</b>  |  |
| <b>Control</b>                                    | Touchscreen tablet, or PC control via USB and TRILUTION® micro software  |  |
| <b>Dimensions (W x D x H)</b>                     | <b>PIPETMAX with rotating cover</b><br>54.4 x 65.5 x 53.1 cm (21.4 x 25.8 x 20.9 in.)<br><b>PIPETMAX with rotating cover installed on optional riser assembly for off-bed tip disposal</b><br>54.4 x 65.5 x 69.6 cm (21.4 x 25.8 x 27.4 in.)<br><b>PIPETMAX without rotating cover</b><br>50.8 x 64.3 x 49.5 cm (20 x 25.3 x 19.5 in.)<br><b>PIPETMAX without rotating cover installed on optional riser assembly for off-bed tip disposal</b><br>52.3 x 65 x 65.8 cm (20.6 x 25.6 x 25.9 in.) |  |
| <b>Environmental conditions</b>                   | <b>Altitude:</b> up to 2000 m<br><b>Temperature range:</b> 5°C-40°C<br><b>Humidity:</b> Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C  |  |
| <b>Front Panel</b>                                | Two USB host ports and STOP button   |  |
| <b>Liquid Contact Materials</b>                   | <b>DESCRIPTION</b>   | <b>MATERIAL</b>  |
|   | Tips   | 100% Virgin Polypropylene  |
|   | Tip Disposal Bin   | Pro-fax 6523 (Polypropylene with colorant)   |
|   | Tip Disposal Bin (Off-bed)   | Polypropylene  |
|   | Tip Chute  | Pro-fax 6523 (Polypropylene with colorant), Aluminum 5052 with Hentzen, URA-ZEN, White, Matte Finish, Fine Texture Paint |
| <b>Power Requirements - External Power Supply</b> | <b>Voltage Input:</b> Frequency: 50 to 60Hz; Voltage: 100-240V AC<br><b>Voltage Output:</b> Voltage: 24V DC; Current Rating: 6.25A, 150W   |  |
| <b>Removable Tray Capacity</b>                    | 9-position removable tray (microplate footprints, but not for 384-well microplates)<br>9-position removable tray for 384-well microplates  |  |
| <b>Safety and Compliance</b>                      | PIPETMAX has been certified to safety standards specified for Canada, Europe, and the United States. Refer to the instrument rear panel label and the Declaration of Conformity document for the current standards to which the instrument has been found compliant.   |  |