

# 3D-IW8, Inteliwasher

## DESCRIPTION

Inteliwasher **3D-IW8** series microplate washer is designed for washing various types of standard 96-well microtitre plates, microstrips as well as microarrays on FastFRAME (rectangular well shape). It is suitable for washing wells with different bottom shapes: flat, U-shape and V-shape. The unit is fully programmable ensuring multi-step solution ripening, aspiration (aspiration, combination of aspiration/liquid dispensing and soaking, as well as soaking cycle during a particular period of time). Dispense system of liquid dosage for each channel separately.

The unit provides:

- Washing mode
- Rinsing mode
- Mixing mode
- Single point, two point, circular (circle or rectangular path) aspiration
- Possibility of additional solution mixing during time gap between two work cycles
- Possibility to use microtest plates by different manufacturers, ensured by automated plate set up (adjusting to different depths of plate wells)
- Round-bottom plate and strip washing mode
- Possibility of user-defined programs with adjustable parameters

The unit has 50 programs divided into 5 following aspiration categories (see figure rightward):

- Type 1 (1.0–1.9) IPF96 U/V is intended for round and V-shape immunoplates, 1 point aspiration.
- Type 2 (2.0–2.9) IPF96 FLAT-2 is intended for flat-bottom shape immunoplates, 2 point aspiration.
- Type 3 (3.0–3.9) IPF96 FLAT-C is intended for rectangular shape immunoplates, full-circle aspiration direction.
- Type 4 (4.0–4.9) FastFRAME-2 is intended for multi-slide plate\* with rectangular wells.
- Type 5 (5.0–5.9) FastFRAME-C is intended for multi-slide\* plate with rectangular wells.

\* - The FastFRAME (GVS Life Sciences) multi-slide plate or analog plate of another manufacturer, that is compatible with standard 25 x 76 mm (1 x 3 inch) glass slides.

The unit is designed for use in closed laboratory rooms at temperatures from +10°C to +35°C and relative humidity up to 80% at +25°C decreasing linearly to 50% relative humidity at 35°C.

4-channel washing solution weight logger, **4 CHW Logger** provides automatic control of rinsing solution and waste volumes. The washer shows remaining volume for each bottle as percentage and gives a warning message in case of low solution volume or full waste bottle when **4 CHW Logger** is connected.

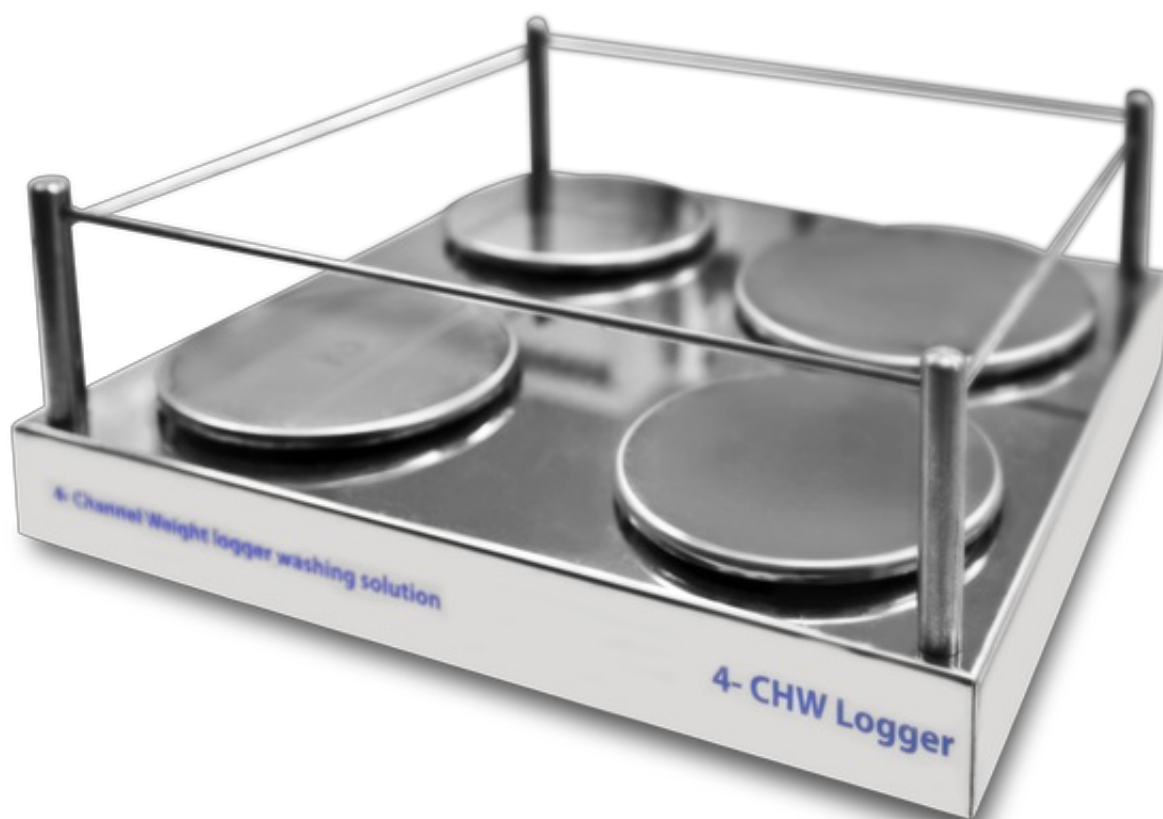


## CAT. NUMBER

|               |                                             |
|---------------|---------------------------------------------|
| BS-060102-AAI | 230VAC 50/60Hz Euro plug                    |
| BS-060102-AAB | 230VAC 50/60Hz UK plug                      |
| BS-060102-AA4 | 230VAC 50/60Hz AU plug                      |
| BS-060102-AAJ | 100VAC 50/60Hz US plug, 120VAC 60Hz US plug |
| BS-060102-BK  | IQ OQ document                              |
| BS-060102-CK  | PQ document                                 |

## SPECIFICATIONS

|                                              |                                              |
|----------------------------------------------|----------------------------------------------|
| Minimum dispense volume                      | 25 µl                                        |
| Maximum dispense volume                      | 1600 µl                                      |
| Dispense increment                           | 25 µl                                        |
| Dispensing accuracy                          | ±2.5%                                        |
| Allowed residual liquid volume in plate well | not more than 2 µl                           |
| Number of wells washed simultaneously        | 8                                            |
| Number of washing cycles                     | 1–15                                         |
| Aspiration time                              | 1–3 s                                        |
| Aspiration/dispensing speed                  | 3 levels                                     |
| Max. number of channels in a program         | 2                                            |
| Choice of 3 washing liquid bottles           | +                                            |
| Soaking time                                 | 0–300 s (increment 10 s)                     |
| Shaking time                                 | 0–150 s (increment 5 s)                      |
| Time of plate single wash (350 µl), not more | 45 s                                         |
| Number of washed rows                        | 1 – 12                                       |
| Number of programs                           | 50                                           |
| Plate platform and washing head movement     | automated                                    |
| Indication of operation modes                | LCD, 8-line                                  |
| Overall dimensions (W×D×H)                   | 375 x 345 x 180 mm                           |
| Weight                                       | 9.9 kg                                       |
| Input current/power consumption              | 12 V DC, 1.8 A / 22 W                        |
| External power supply                        | Input AC 100–240 V; 50/60 Hz; Output DC 12 V |



4 CHW Logger  
BS-060102-AK

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