Data Sheet

Agilent Dako

Achieve More with Agilent Dako Omnis Family of Instruments

Agilent Dako Omnis 110

Agilent Dako Omnis 165

Agilent Dako Omnis 165 Duo

Stay ahead of growing demands

Dako Omnis family of instruments enables labs to increase throughput with less hands-on time, while at the same time improving case turnaround time.

Flexibility and scalability for every lab

With three additional instruments, the Dako Omnis family provides a solution that fits every pathology lab. As your lab successfully grows over time, you can pick any combination of instruments that match your new needs.

What can you expect?

- High throughput and capacity to meet growing demands
- Consistent, high-quality staining providing confidence in results
- Flexible management of workload fluctuations to handle daily challenges
- Simultaneous running of different techniques for easy workflow
- Continuous loading for quicker completion of patient cases

Dako Omnis Family of Instruments

The Dako Omnis family of instruments includes the models: Dako Omnis 165 Duo, Dako Omnis 165, Dako Omnis 110, and the Dako Omnis.

Agilent

Trusted Answers

Specifications

Table 1. Instrument specifications.

Specification	Description
Intended Use	**Dako Omnis 165 Duo** Dako Omnis 165 Duo is an in vitro diagnostic device intended for automated slide-based immunohistochemistry (IHC) and in situ hybridization (ISH) on formalin-fixed, paraffin-embedded tissue sections and immunocytochemistry (ICC) on formalin-fixed cytology specimens. It is intended to be operated by qualified professionals, trained in the use of Dako Omnis 165 Duo, in a pathology laboratory environment. The processed slides are intended to be evaluated by qualified pathologists. **Dako Omnis 110 and Dako Omnis 165** Dako Omnis 110 and Dako Omnis 165 are in vitro diagnostic devices intended for automated slide-based immunohistochemistry (IHC) on formalin-fixed, paraffin-embedded tissue sections and immunocytochemistry (ICC) on formalin-fixed cytology specimens. They are intended to be operated by qualified professionals, trained in the use of Dako Omnis 110 and Dako Omnis 165, in a pathology laboratory environment. The processed slides are intended to be evaluated by qualified pathologists.
Operation	– Continuous workflow (or batches) – 5-slide racks to optimize capacity utilization and patient case management – Reagents and slides can be loaded and unloaded as needed, also during runs – Easy-to-use software interface – Designed with built-in safety measures to minimize potential human errors – Option for direct connection to de-ionized (DI) water supply and nonhazardous waste disposal for lower hands-on time – High volume (30 L) of hazardous waste to reduce workflow hard stops
Labeling	CE, IVD, and MET marked
Quality System	ISO 13485, MDSAP
Starter Pack Content (All items can also be ordered individually)	At delivery, a Dako Omnis instrument contains: – Dako Omnis DI Water Tank, 30 L, Code GC12530 – Dako Omnis Waste Tank (NHz), 30 L, Code GC12630 – Dako Omnis Waste Tank (Hz), 30 L, Code GC12730 – Dako Omnis Buffer/Solvent Container, 3.5 L, 8 pcs for Dako Omnis 165 Duo and 6 pcs for Dako Omnis 165 and Dako Omnis 110, Code GC10930 Additional products provided with the delivery of a new instrument: – Dako Omnis Buffer/Solvent Container, 3.5 L, 4 pcs, Code GC10930 – 2x Dako Omnis Slide Rack, 6 pcs, Code GC10130 – Dako Omnis Slide Rack Color Clips (4 colors, 25 pcs), Code GC10330 (Red), Code GC10430 (Blue), Code GC10530 (Green), Code GC10630 (Grey) – Dako Omnis Mixing Strips, 25 pcs, Code GC10730 – Dako Omnis Solid Waste Bag, 25 pcs, Code GC10830 (only for Dako Omnis 165 Duo) – Dako Omnis Buffer/Solvent Container Label sets, Code GC11130 – Dako Omnis Water/Waste Container Label sets, Code GC11230 – Dako Omnis Small Vial, 2 mL, box of 25 pcs, Code GC20130-6 – Dako Omnis Large Vial, 30 mL, box of 25 pcs, Code GC20230-6 – Large Flap Slide Label Kit, Code S341730 – Dako Omnis ISH Lid, 5 pcs, Code GC10230 (only for Dako Omnis 165 Duo) – Dako Omnis DI Water Filling Accessories, Code GC12130 – Dako Omnis Water Container, 7 L, 5 pcs, Code GC11030 – Dako Omnis Clean Liquid System Hardware, Code GC12230
Alarms	Sound and visual alarms (green, yellow, red , and blue) indicating instrument status.

Table 2. Reagents.

Specification	Description
Reagent List	Please refer to the Agilent website for a complete list of reagents.
Reagent Compartment	Temperature-controlled conditions (18 °C), protecting reagents from temperature fluctuations 60 reagent vials
Visualization Kits	Two color options: DAB and HRP Magenta Please refer to the Agilent website for a complete list of visualization kits.
Bulk Fluid Capacity	Dako Omnis 165 Duo: 8 x 3.5 L bottles, for dewax, retrieval buffers, and wash buffers. In addition, one 30 L tank for DI water. Dako Omnis 165 and Dako Omnis 110: 6 x 3.5 L bottles, for dewax, retrieval buffers, and wash buffers. In addition, one 30 L tank for DI water.

Table 3. Staining module.

<table>
<tr><th>Specification</th><th>Description</th></tr>
<tr><td>Loading of Slide Racks</td><td>Designed for continuous loading and unloading:
Dako Omnis 165 Duo: holds 12 racks of five slides (60 slides), three of which can be ISH
Dako Omnis 165: holds 12 racks of five slides (60 slides)
Dako Omnis 110: holds 10 racks of five slides (50 slides)</td></tr>
<tr><td>Staining Compartment and Technology</td><td>Dynamic Gap staining technology.
Temperature and humidity-controlled processing environment.</td></tr>
<tr><td>Average Process Time
(turnaround time)</td><td>– Average IHC staining time: 2 hours 30 minutes
– Average FISH staining time: 4 hours (only for Dako Omnis 165 Duo)
– Average CISH staining time: 5 hours (only for Dako Omnis 165 Duo)</td></tr>
<tr><td>Loading Capacity</td><td>
<table>
<tr><th>IHC Loading Capacity*</th><th>Dako Omnis 165 Duo</th><th>Dako Omnis 165</th><th>Dako Omnis 110</th></tr>
<tr><td>Working day (8 hours)</td><td>105 IHC slides</td><td>105 IHC slides</td><td>60 IHC slides</td></tr>
<tr><td>Overnight</td><td>60 IHC slides</td><td>60 IHC slides</td><td>50 IHC slides</td></tr>
<tr><td>Total in 24 hours</td><td>165 IHC slides</td><td>165 IHC slides</td><td>110 IHC slides</td></tr>
</table>
<table>
<tr><th>ISH Loading Capacity**</th><th>Dako Omnis 165 Duo</th><th>Dako Omnis 165</th><th>Dako Omnis 110</th></tr>
<tr><td>Working day (8 hours)</td><td>15 FISH/CISH</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Overnight</td><td>15 FISH/CISH</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Total in 24 hours</td><td>30 FISH/CISH</td><td>N/A</td><td>N/A</td></tr>
</table>
*Based on average TAT of 2 hours 30 minutes for IHC with continuous loading
**Based on an average TAT of 4 hours for FISH and 5 hours for CISH with continuous loading</td></tr>
<tr><td>Overnight Run</td><td>Two overnight run modalities:
– Continuous run (as standard daily runs)
– Delayed run (based on requested finishing time)</td></tr>
<tr><td>Type of Glass Slides</td><td>The following glass slides are validated:
– FLEX IHC Microscope Slides Code K8020
– SuperFrost Plus slides</td></tr>
</table>

Table 4. Dimensions and requirements.

<table>
<tr><th>Specification</th><th>Description</th></tr>
<tr><td>Instrument Dimensions</td><td>H x W x D: 175 cm x 144 cm x 79 cm (68.9" x 56.9" x 31.1")
Height with front cover open: 208 cm (81.9")
Packaging dimensions and weights:
<table>
<tr><th>Instrument</th><th>Length</th><th>Width</th><th>Height</th><th>Gross Weight</th></tr>
<tr><td>Dako Omnis packed</td><td>157 cm (61,8")</td><td>96 cm (37,8")</td><td>205 cm (80.7")</td><td>Dako Omnis 165 Duo: 546 kg (1,204 lbs)
Dako Omnis 165: 533 kg (1,175 lbs)
Dako Omnis 110: 519 kg (1,144 lbs)</td></tr>
<tr><td>Wooden pallet</td><td></td><td></td><td></td><td>Approx. 30 kg (66 lbs)</td></tr>
<tr><td>Outer packaging</td><td></td><td></td><td></td><td>Approx. 20 kg (44 lbs)</td></tr>
</table></td></tr>
<tr><td>Electrical Requirements/Power</td><td>The instruments support:
– 115 V, 220 V, and 230 V
– Power consumption: 1,200 W per hour</td></tr>
<tr><td>External Ventilation</td><td>Not necessary</td></tr>
<tr><td>Water Supply</td><td>Direct DI water supply connection or 30 L water tank.
DI water specifications:
– Conductivity 0.5–10 µS/cm (free of particles and air bubbles)</td></tr>
<tr><td>Waste Separation</td><td>Waste separation between hazardous and nonhazardous waste
Option to connect directly to drain or sink for nonhazardous waste</td></tr>
<tr><td>Waste Capacity</td><td>Nonhazardous: 1 x 30 L tank
Hazardous: 1 x 30 L tank</td></tr>
<tr><td>Waste Production</td><td>Average waste produced per slide:
– 29 mL hazardous waste
– 293 mL nonhazardous waste
– 0.49 g plastic waste</td></tr>
</table>

Table 4. Dimensions and requirements *(cotinued)*.

Specification	Description
Environmental Conditions	For indoor use only. Requires an environment with: – Ambient temperature between 18–28 °C (64–82 °F) – Not facing direct sunlight – Normal operating humidity between 25–85% RH; noncondensing – Pollution degree 2 – Depending on the altitude, it may be necessary to make protocol adjustments to ensure the pretreatment temperature is kept below the boiling point.

Table 5. Noise and heat.

Specification	Description
Noise Level	Noise level measurement, according to EN 61010-1 (safety requirements for electrical equipment for measurement, control, and laboratory use). This is < 65 dBA, which is below the recommended permissible levels, which can vary by country and are typically in the range of 85–90 dBA.
Heat Generation	– Max theoretical heat generation: 4,100 BTU – Normal running conditions (full load): 1,500–3,000 BTU

Table 6. Protocols

Specification	Description
Validated Protocols	All validated protocols are preloaded in the system.
Protocol Templates	– IHC-HRP templates including DAB and Magenta chromogens – IHC-AP templates (avidin-biotin-based or polymer-based visualization) – Immunofluorescence templates (direct and indirect) – Sequential double staining template – FISH and single-signal CISH templates

Table 7. DakoLink Omnis software.

Specification	Description
Network/LIS Connection	Connectivity to the laboratory information system using ULISA software can be ordered as an additional option. Data transfer using either HL7, XML, or CSV formats is supported. Bidirectional connectivity allows a 'staining complete' message to be returned to your LIS upon successful slide completion, where supported by the LIS. Supported barcodes are: 2D (Datamatrix, QR) and 1D (Code128, I2of5, Code 93, Code 39, Codabar, PDF417). Requirements: – Network connection from the DakoLink Omnis Server to the customer network – Dako ULISA software installed by a trained Agilent representative – LIS system generating HL7, XML, or CSV files – LIS administrator or LIS vendor to configure customer interface

Table 8. Service and support.

Specification	Description
Installation and Service	Deployment services ensure that your Dako Omnis system is correctly installed and integrated into your lab's workflow. This can be ordered as an additional option and includes: – Presite inspection – Installation – Connectivity and operational qualification – Instrument service including planned maintenance, corrective maintenance, and software upgrades – Application and technical support including protocol design, optimization, product training, and demonstrations for optimal staining performance A supplemental instrument service agreement extends the benefits of the standard instrument warranty, providing additional coverage to prevent unplanned expenses.

www.agilent.com

For in vitro diagnostic use.

D0130674_2.00

This information is subject to change without notice.

Published in the USA, October 14, 2025
29665 2025SEP29

Agilent
Trusted Answers