



[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

# AD VIA® 360 Hematology System

## Technical Specifications

### Product Specifications

|                              |                                                                                                                                                                                                                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technology/Parameters</b> | Volumetric impedance method/22 parameters, including 3-part WBC-differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, MCV, HCT, HGB, MCH, MCHC, PLT, MPV, RDW-SD, RDW-CV, PCT, PDW-SD*, PDW-CV*, P-LCR*, P-LCC*                                                                                               |
| <b>Sample stability</b>      | Long-term sample stability studies on blood specimens drawn in K2- and K3-EDTA collection tubes at room temperature showed no significant clinical variation for all parameters between 30 minutes and 7 hours post-phlebotomy. MPV results can show instability in the first 2 hours but are stable afterwards. |
| <b>Sample modes/volumes</b>  | Manual closed tube/100 µL<br>Manual open tube/100 µL                                                                                                                                                                                                                                                             |
| <b>Throughput</b>            | Up to 60 tests/hour                                                                                                                                                                                                                                                                                              |
| <b>Data management</b>       | Database: 10,000-patient storage capacity                                                                                                                                                                                                                                                                        |
| <b>Quality control</b>       | 24 QC lots, Levey-Jennings graphs, bar-code option to load QC target values, and QR code-reading for reference data input                                                                                                                                                                                        |

### Workstation

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| <b>Printout</b>                   | Integrated ticket printer; optional external, Microsoft Windows-compatible printers |
| <b>Optional external keyboard</b> | PS/2 or USB                                                                         |
| <b>Handheld bar-code reader</b>   | Standard                                                                            |
| <b>User interface</b>             | 8-inch LCD touchscreen, color graphics                                              |
| <b>Interfacing capabilities</b>   | RS232, USB, Ethernet; multilingual user interface                                   |

### Physical Requirements/Room Environment

|                          |                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Electrical power</b>  | Dedicated line, voltage selectable for single phase, 100 VAC (6 amps)–240 VAC (3 amps)                      |
| <b>Frequency</b>         | 47–63 Hz                                                                                                    |
| <b>Temperature</b>       | Operating: 15–30°C                                                                                          |
| <b>Storage</b>           | 5–35°C                                                                                                      |
| <b>Relative humidity</b> | Operating: 45–85% (noncondensing)                                                                           |
| <b>Waste disposal</b>    | 10 L or 20 L tracked waste container or direct waste feed into main drainage. Treat as potential biohazard. |

### Weight and Dimensions

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| <b>Weight</b>     | 17.85 kg/39.35 lb                                                  |
| <b>Dimensions</b> | 36 (h) x 31.6 (w) x 49.2 (d) cm; 14.4 (h) x 12.5 (w) x 19.7 (d) in |

### Additional Specifications

|                                    |                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Three cyanide-free reagents</b> | Diluent, Lyse, and Cleaner                                                                                                                              |
| <b>User languages</b>              | Bulgarian, English, French, German, Greek, Indonesian, Italian, Polish, Portuguese (Brazil), Romanian, Russian, Slovakian, Spanish (Argentina), Turkish |

\*Parameter not approved for measurement in the U.S.

# ADVIA 360 Hematology System

| Accuracy                  |                     |         |                   |            |
|---------------------------|---------------------|---------|-------------------|------------|
| Parameter                 | Difference Criteria |         | Evaluation Levels |            |
|                           | Absolute            | Percent | Low Range         | High Range |
| WBC (10 <sup>3</sup> /μL) | 0.30                | 6.00%   | 0.00              | 85.00      |
| GRA% (%)                  | 3.00                | 10.00%  | 0.00              | 100.00     |
| LYM% (%)                  | 3.00                | 10.00%  | 0.00              | 100.00     |
| MID% (%)                  | 3.00                | 10.00%  | 0.00              | 40.00      |
| RBC (10 <sup>6</sup> /μL) | 0.15                | 6.00%   | 0.00              | 8.00       |
| HGB (g/dL)                | 0.30                | 6.00%   | 1.00              | 25.00      |
| MCV (fl)                  | 1.00                | 6.00%   | 50.00             | 120.00     |
| RDW (%)                   | 0.50                | 6.00%   | 8.00              | 20.00      |
| PLT (10 <sup>3</sup> /μL) | 15.00               | 8.00%   | 0.00              | 1000.00    |
| MPV (fl)                  | 0.50                | 10.00%  | 5.00              | 30.00      |

| Precision                 |               |       |                         |       |
|---------------------------|---------------|-------|-------------------------|-------|
| Parameter                 | Repeatability |       | Within-device Precision |       |
|                           | SD            | %CV   | SD                      | %CV   |
| WBC (10 <sup>3</sup> /μL) | <0.18         | <2.7  | <0.40                   | <4.0  |
| GRA% (%)                  | <3.5          | <8.0  | <3.5                    | <8.0  |
| LYM% (%)                  | <3.1          | <8.0  | <3.1                    | <8.0  |
| MID% (%)                  | <2.0          | <17.0 | <2.0                    | <17.0 |
| RBC (10 <sup>6</sup> /μL) | <0.11         | <1.7  | <0.15                   | <2.5  |
| HGB (g/dL)                | <0.20         | <2.0  | <0.22                   | <2.4  |
| MCV (fl)                  | <1.0          | <1.7  | <1.20                   | <2.0  |
| RDW (%)                   | <0.4          | <2.5  | <0.45                   | <3.0  |
| PLT (10 <sup>3</sup> /μL) | <23           | <6.0  | <27                     | <7.0  |
| MPV (fl)                  | <0.45         | <8.7  | 0.5                     | <10   |

| Linearity and Reportable Ranges |                                 |                             |                             |                |                 |
|---------------------------------|---------------------------------|-----------------------------|-----------------------------|----------------|-----------------|
| Parameter                       | Determination (R <sup>2</sup> ) | Nonlinearity Absolute Error | Nonlinearity Relative Error | Reportable Low | Reportable High |
| WBC (10 <sup>3</sup> /μL)       | >0.95                           | <0.80                       | <3.0%                       | 0.0            | 85.0            |
| HGB (g/dL)                      | >0.95                           | <0.27                       | <3.0%                       | 1.0            | 25.0            |
| RBC (10 <sup>6</sup> /μL)       | >0.95                           | <0.20                       | <3.0%                       | 0.00           | 8.00            |
| PLT (10 <sup>3</sup> /μL)       | >0.95                           | <35                         | <3.0%                       | 0              | 1000            |

| Carryover and Reportable Ranges |                       |                |                 |
|---------------------------------|-----------------------|----------------|-----------------|
| Parameter                       | Maximum Carryover (%) | Reportable Low | Reportable High |
| WBC (10 <sup>3</sup> /μL)       | <1.0                  | 0.2            | 83.0            |
| HGB (g/dL)                      | <0.8                  | 1.0            | 23.0            |
| RBC (10 <sup>6</sup> /μL)       | <0.5                  | 0.4            | 7.70            |
| PLT (10 <sup>3</sup> /μL)       | <1.0                  | 11             | 975             |

Learn more about the ADVIA® 360 System or the entire family of scalable Siemens hematology systems.

Visit [www.siemens.com/hematology](http://www.siemens.com/hematology), or contact your local Siemens sales representative.

ADVIA and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. or its affiliates. All other trademarks and brands are the property of their respective owners.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

## Global Siemens Headquarters

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

## Global Siemens Healthcare Headquarters

Siemens AG, Healthcare  
Henkestrasse 127  
91052 Erlangen  
Germany  
Telephone: +49 9131 84-0  
[www.siemens.com/healthcare](http://www.siemens.com/healthcare)

## Global Division

Siemens Healthcare Diagnostics Inc.  
511 Benedict Avenue  
Tarrytown, NY 10591-5005  
USA  
[www.siemens.com/diagnostics](http://www.siemens.com/diagnostics)

Order No. A91DX-HHS-141663-XC1-4A00  
02-2015 | All rights reserved  
© 2015 Siemens Healthcare Diagnostics Inc.