

## DCA Vantage Analyzer Product Specifications

# Deliver optimal diabetes care with clinical confidence

#### siemens-healthineers.com/dca-vantage

Point-of-care immunoassay analyzer
Hemoglobin HbA1c (whole blood): 2.5% to 14% (4 mmol/mol to 130 mmol/mol) Microalbumin/Creatinine (urine): Albumin: 5 to 300 mg/L; Creatinine: 15 to 500 mg/dL (1.3 to 44.2 mmol/L); Albumin-to-Creatinine Ratio: 1 to 2000 mg/g (0.11 to 226 mg/mmol)
Self-contained immunoassay cartridges
Automatic optical transmission
HbA1c: % and IFCC mmol/mol units Albumin: mg/dL Creatinine: mg/dL or mmol/L A:C ratio: mg/dL or mmol/L
Albumin-to-Creatinine Ratio: mg/g or mg/mmol Estimated Average Glucose (eAG)*: mg/dL or mmol/L
HbA1c and Albumin: monoclonal antibody agglutination reaction; Creatinine: Benedict Behre chemical reaction
HbA1c: 6 minutes; A:C Ratio: 7 minutes

<sup>\*</sup>Not available in the U.S.

Sample Volume	HbA1c: 1 μL whole blood; Microalbumin/Creatinine: 40 μL urine		
Sample Preparation	No pretreatment; no pipetting required		
Sample ID/ Operator ID Entry	Optional; via touch screen or bar-code reader		
Quality Control/Compliance			
Calibration	Lot-specific calibration card provides automat calibration with every cartridge. Traceable to International Federation of Clinical Chemistry (IFCC) reference materials and test methods for measurement of HbA1c		
Flexible QC Scheduling	None, Automatic Reminders, or Required		
QC Testing	Optional lockout if schedule not followed, or QC fails		
User/Operator Access	Restricted, if desired, to protect patient and Q data, and prevent unauthorized use		
Matching Lab Results/Reference Method	Adjustable correlation to reference methods		
Reference Ranges	User-definable reference ranges available for HbA1c		



### **DCA Vantage Analyzer Specifications**

Display		
Data	Color touch screen with 1/4 VGA resolution	
Onboard Computer		
Storage Capacity/ Memory	4000 patient and/or control records; Up to 1000 operator IDs	
Data Export	Via USB flash drive to PC or direct to LIS/HIS or data manager, if interfaced	
Connectivity Option	ıs	
Serial	RS232, ASTM protocol	
Ethernet	ASTM or POCT1-A2 protocol	
Bi-Directional	POCT1-A2 supports remote functions from LIS/HIS, RAPIDComm® Data Management System, or third-party data management system	
Peripheral Interface	s	

Peripheral Interfaces				
USB Port	Standard USB 2.0			
External Bar-code Reader (optional)	Serial (9 pin)			
Onboard Printer	54 mm (2 in) width, thermal/label stock			
External Printer	Supports standard PCL printer interface via USB port			

Camanal	
General	
Dimensions	9.0 (h) x 11.5 (w) x 10.5 (d) inches 25.4 (h) x 28.7 (w) x 27.7 (d) cm
Weight	3.88 kg (9.0 lb)
<b>Power Requirements</b>	100 to 240 VAC; 50/60 Hz
Line Leakage Current	<0.3 mA in normal condition <0.5 mA in single fault condition
Maximum Power Input	70 VA; 30 watts
Ambient Operating Temperature	18°C to 30°C (64°F to 86°F) (Albumin) 15°C to 32°C (61°F to 88°F) (HbA1c)
Operating Temperature	5°C to 40°C (41°F to 104°F); 10% to 90% relative humidity
Safety	TUV SUD with CB Scheme, CSA-C22.2, EN60601, IEC 60601, UL60601
EMC Emissions/Immunity	FCC 47: Part 15 (Class B), EN60601-1-2 (Class B)

#### HbA1c Testing as Easy as 1-2-3









Scan cartridge

Load and pull tab

Calculated Result	Formula
HbA1c	% HbA1c = (HbA1c/Total Hemoglobin) x 100
Glomerular Filtration Rate (GFR)	GFR = 186 x (plasma creatinine mg/dL) $^{-1.154}$ x (patient age years) $^{0.203}$ x (0.742 if female patient) x (1.210 if African American patient)
Estimated Average Glucose* (eAG)	eAG (mg/dL) = $28.7 \times HbA1c - 46.7$ eAG (mmol/L) = $1.59 \times HbA1c - 2.59$

Dual Reporting Formula	From IFCC to % HbA1c	From % HbA1c to IFCC mmol/mol
NGSP	NGSP = (0.09148 x IFCC) + 2.152	IFCC = (10.93 x NGSP) - 23.50
JDS (Japan)	JDS = (0.09274 x IFCC) +1.724	IFCC = (10.78 x JDS) - 18.59
Mono-S (Sweden)	Mono-S = (0.09890 x IFCC) + 0.884	IFCC = (10.11 x Mono-S) – 8.94

<sup>\*</sup>Not available in the U.S.

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

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