

Volumetric Assessment For Digital Mammography



Volumetric Breast Density Assessment Software

Until recently, consistent assessment of breast composition was hampered by widely differing technical factors and the subjectiveness of the reviewer.

Hologic is proud to introduce Quantra™ Volumetric Assessment, a break-through technology that calculates volumetric breast density as a ratio of fibroglandular tissue and total breast volume estimates. Quantra provides these numerical values for each breast to aid radiologists in the assessment of breast tissue composition.

A New Innovation in Breast Imaging

Quantra analyzes each image within a study and provides a trio of values for each breast:

- Volume of the breast in cubic centimeters (cc)
- Volume of fibroglandular tissue in cubic centimeters (cc)
- Volumetric percentage of fibroglandular tissue is derived by dividing volume of fibroglandular tissue by volume of the breast

Quantra – Volumetric Assessment at the Touch of the Button

Quantra is a powerful technology that uses details of the X-ray imaging chain to quantify fibroglandular tissue in the breast. Quantra aggregates volumetric measurements from each view in a study into a simple, concise assessment for each breast.

A single click on Hologic SecurView® DX reveals Quantra information for all available studies, simplifying monitoring of volumetric change over time. In addition, Quantra information is readily available on your PACS workstation.

Factor	2005-06-27		2004-06-24	
	R	L	R	L
Volume of fibroglandular tissue (cc)	228	163	190	163
Volume of breast (cc)	816	780	819	798
Percentage of fibroglandular tissue (%)	28	21	23	20



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Quantra™

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Quantra™ 1.3 Product Specifications

Compatibility for Quantra 1.3

Required Platform	Cenova™ Server 1.3
Compatibility	Hologic Digital Mammography Systems

Inputs

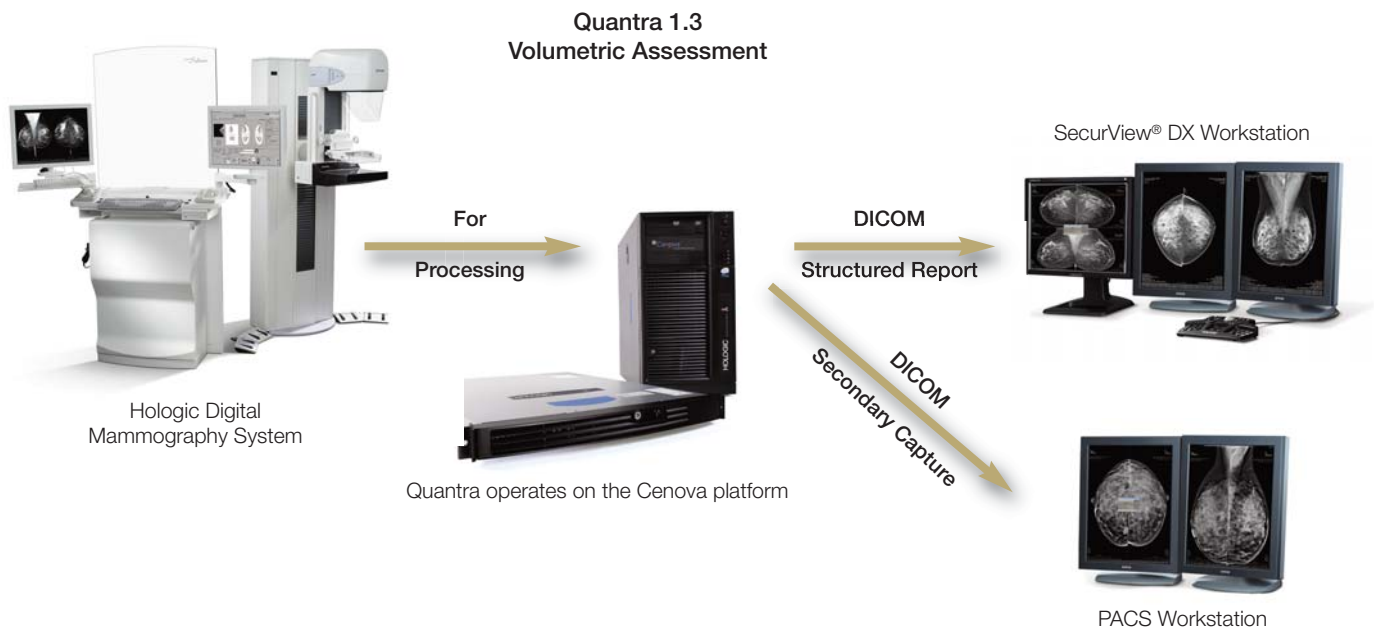
Format	DICOM Digital Mammography Image – For Processing
Views Processed	RCC, LCC, RMLO, LMLO only

Outputs

DICOM Structured Report (requires compatible workstation)
DICOM Secondary Capture (Quantra)

Cenova Data Flow

Throughput	30-60 cases/hr (nominal) ¹
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¹ Performance dependent on recommended hardware, network bandwidth and input rate of images

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