

Standardize breast density analysis to provide personal care.

As awareness of breast density as a risk factor for cancer grows, so does the need for accurate analysis. Through a proprietary software algorithm powered by machine learning, the Quantra™ software analyzes images for distribution and texture of parenchymal tissue and categorizes breasts in four breast composition categories.^{1,2} This is critical for women with dense breasts as higher breast density is known to increase a woman's risk for breast cancer.



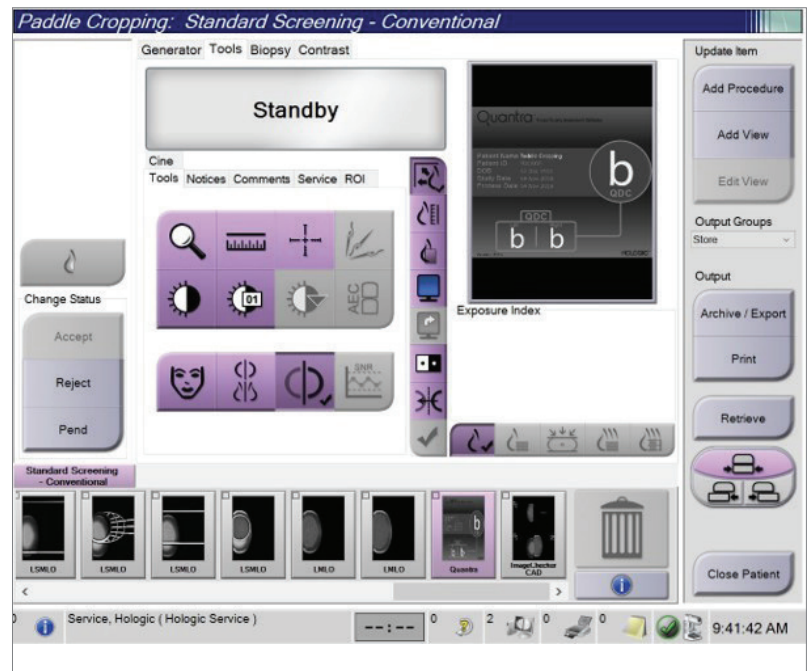
Improve assessment with unbiased algorithms powered by machine learning that analyze each patient's breast texture and pattern.



Elevate the standard of care and standardize reporting across the whole radiology practice.



View density on the AWS* to facilitate patient management protocols for adjunctive screening.



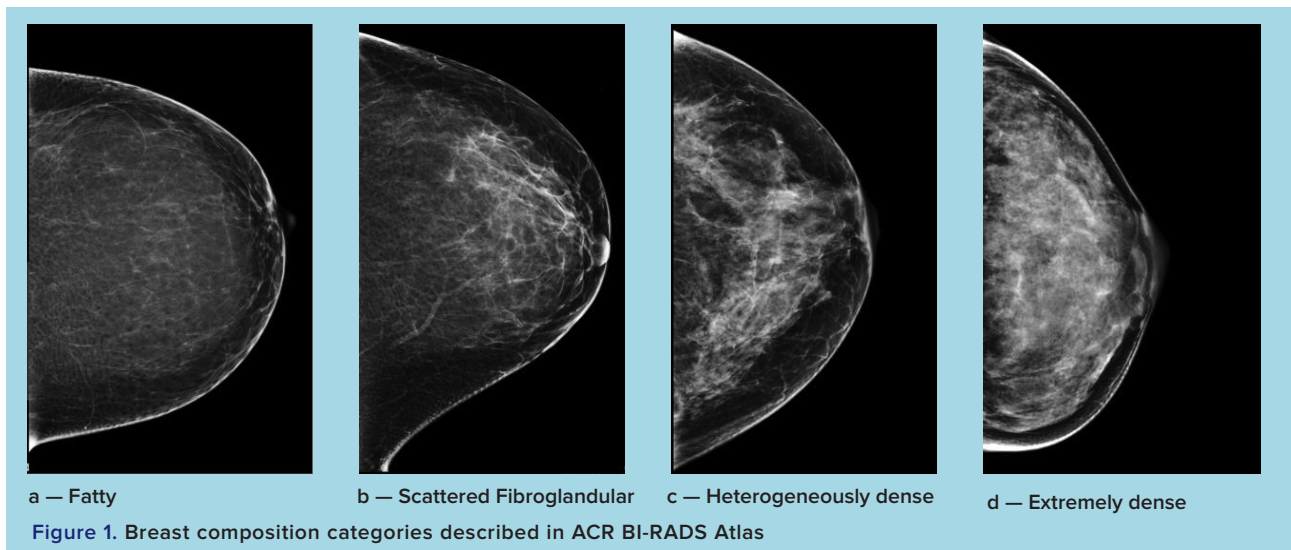
Example of a density score of "b" on the 3Dimensions™ Hologic acquisition workstation (AWS).

Scores are based on ACR BI-RADS Categories

Quantra software uses texture and pattern analysis for more consistent, more reliable scoring. It delivers the accurate information you need to confidently design patient-specific screening pathways and provide the highest quality care. There is a growing body of evidence that pattern and texture of fibro glandular tissue plays an equally important role as volume in mammographic cancer risk prediction.³⁻⁵ The guidance language provided by the American College of Radiation (ACR) BI-RADS Atlas 5th Edition was changed to account for pattern and texture vs volume when determining density.

Quantra software:

- Overcomes subjectivity in visual assessment, which may impact patient care decisions.
- Produces an unbiased breast density assessment to support compliance with state specific density notification laws.
- Objectively supports managements of breast density protocols for adjunctive screening.
- Assigns breast density category based on analysis of parenchymal tissue distribution and texture
- Displays breast density scores on the Hologic acquisition workstation at the end of an exam.*
- Technologists can facilitate the implementation of high-risk/density-based patient management protocol.



Ordering details

Part Number	Description
DIM-LIC-QT	Quantra (2.2) license on AWS
DIM-LIC-QT-TRIAL	Quantra (2.2) 60 days demo license on AWS

*AWS with minimum 3Dimensions 2.1 or Dimensions 1.10 software

References:

1. Hologic FDA Approved submission file 510(k) K163623
2. Understanding Quantra™ (Version 2.2) User Manual
3. Wang, C, et al. 2017, Breast Cancer Research, Vol. 19, p. 114. - A novel and fully automated mammographic texture analysis for risk prediction: results from two case-control studies.
4. Winkel, RR, et al. 2016, BMC Cancer, Vol. 16, p. 414. - Mammographic density and structural features can individually and jointly contribute to breast cancer risk assessment in mammography screening: a case-control study.
5. Nielsen M, Vachon CM, Scott CG, Chernoff K, Karemore G, Karssemeijer N, Lillholm M, Karsdal MA. 2014, Breast Cancer Research, Vol. 16(2), p. R37. - Mammographic texture resemblance generalizes as an independent risk factor for breast cancer.

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