

SQA-Vision Visualization Counters: Features and Use Table

Background: This technical bulletin is released to help guide SQA-Vision users on the correct use of the SQA-Visualization counters with SQA-Vision software version: 44.4.3, release March 2021. To upgrade your system from a previous version, please [CONTACT US](#).

Visualization Screen	ZOOM SETTING*		Type of Slide (Standard/Pre-Stained/Fixed Coverslip)	Use
	Zoom In	Zoom Out		
Debris Scanner	√	√	MES Fixed Coverslip Slides or 1" x 3" slide + 22 x 22 mm coverslip	Assess % Debris/Round Cell presence in the sample (Low, Moderate, Many, Gross).
Morphology	√	√	QwikCheck Pre-Stained Slides + 22 x 22 mm coverslip	Assess Sperm Morphology: Normal vs. Abnormal or Full Differential based on user defined parameters.
Vitality	√	√	1" x 3" slide + 22 x 22 mm coverslip	Assess Live vs. Dead sperm. Reported as % Live (also known as Viability).
DNA Fragmentation	√	√	1" x 3" slide + 22 x 22 mm coverslip	Assess sperm Halo for genetic factors. Reported as % Halo vs. % No Halo.
Low Quality Counter		√	MES Fixed Coverslip Slides or 1" x 3" slide + 22 x 22 mm coverslip	Assess samples below the dynamic range of the SQA system (Concentration < 2, or Motile Sperm Concentration < 0.2).
Manual Counter		√	MES Fixed Coverslip Slides or 1" x 3" slide + 22 x 22 mm coverslip	For manual counting of sperm parameters: Concentration, Motility, and Progressive Motility.
Post VAS Counter		√	MES Fixed Coverslip Slides or 1" x 3" slide + 22 x 22 mm coverslip	For manual counting of Post Vas samples. Reporting of motile, immotile and total sperm cells in limited quantities.
QC Mark Counter		√	MES Fixed Coverslip Slides or 1" x 3" slide + 22 x 22 mm coverslip	For manually counting the number of Beads per field for QC of visualization screen and comparison to manual results.

Assessment Notes:

- Low-Quality Counter: Count at least ten fields of view.
- Manual Counter / QC Counter: Count at least ten fields of view but not less than 200 SPERM if available.
- Post Vas Counter: Count 50 fields of view (lock to lock on the stage adjustment knob).

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