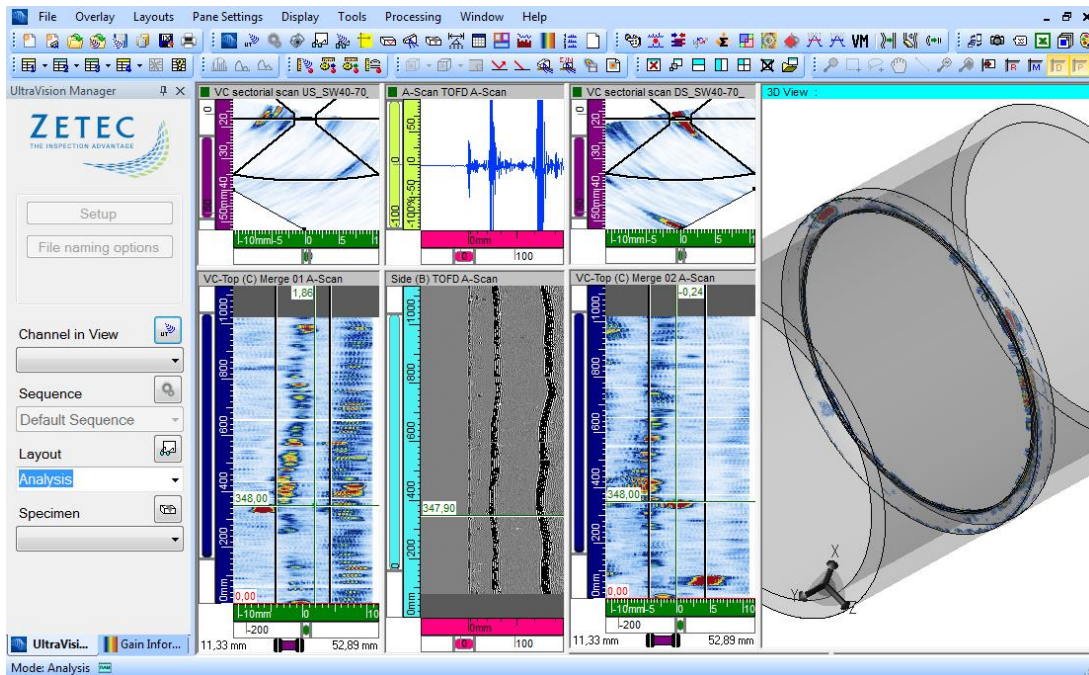


ULTRAVISION 3.8R16

Product Bulletin



UltraVision, a complete UT and Phased Array inspection package!

Table of Contents

Purpose of UltraVision 3.8R16	3
Calibration Tool Improvement.....	4
New Element Check calibration tool.....	4
SNR evaluation tools	4
Noise Contour Box	4
New Information Fields.....	5
SNR Evaluation Interface	5
Visual properties	6
Palette Min/Max Colors.....	6
Enhanced Volumetric Merge Image Quality.....	6
New Thickness Information Fields	6

UltraVision 3.8R16 Product Bulletin

Zetec has just released *UltraVision Classic* version 3.8R16. This product bulletin document presents an overview of the new features and changes this version is offering.

For downloading this or any other UltraVision versions, please visit www.zetec.com

Purpose of UltraVision 3.8R16

UltraVision Classic 3.8R16 is the standard upgrade for users currently working with a previous version of UltraVision Classic 3.

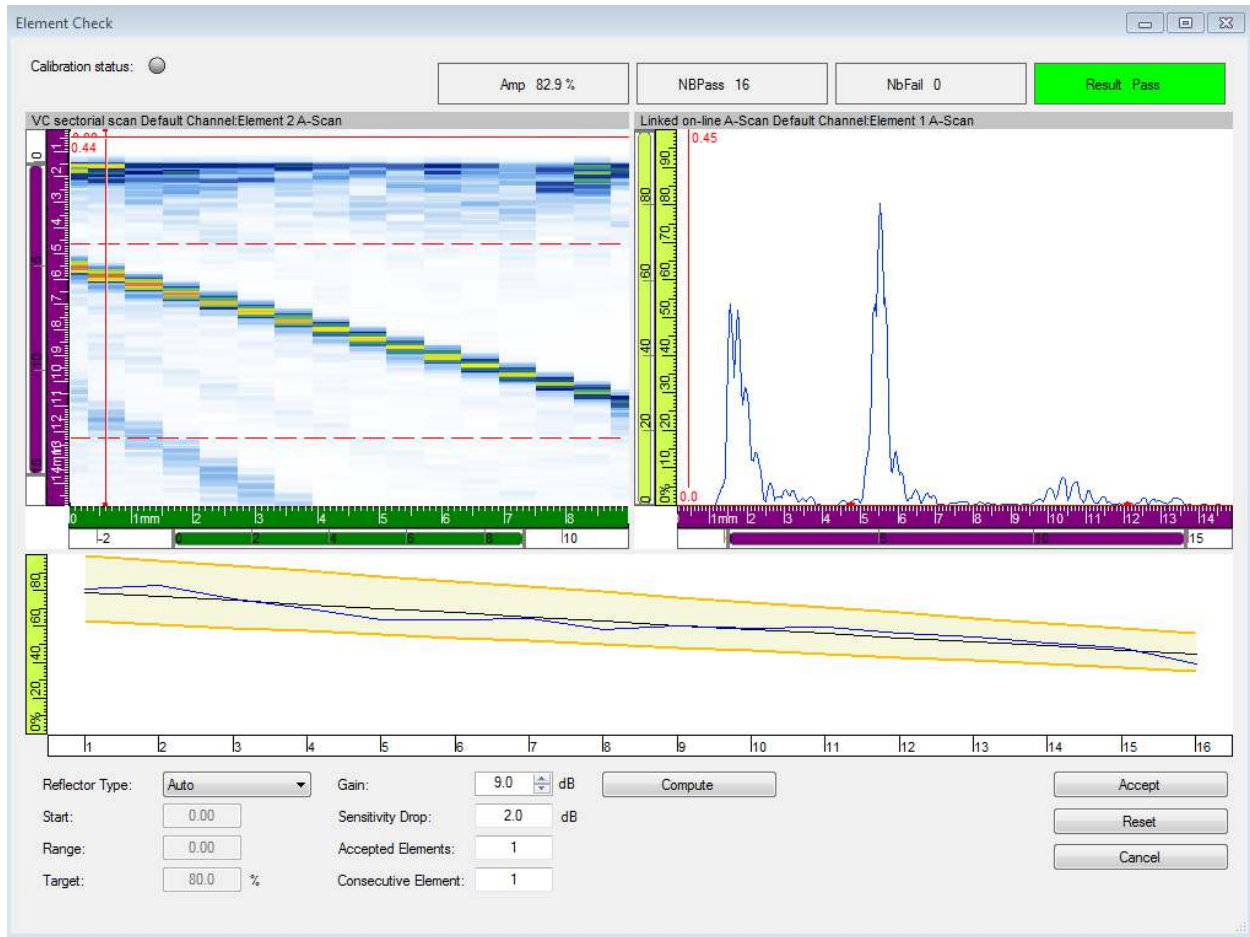
Zetec's hardware and software development process is performed according to a quality system that is certified ISO 9001-2008.

With this certified software development process, Zetec guarantees that the changes between UltraVision versions 3.5R10, 3.6R5, 3.7R21, 3.8R7, 3.8R13 and the version UltraVision 3.8R16 have no consequences on the sensitivity and the accuracy of the signal amplitude and flight time outputs displayed, recorded, or automatically processed by the software. This also includes additions of mathematical modules used for the positioning of indications or for geometric conditions adjustments.

Calibration Tool Improvement

New Element Check calibration tool

The previous **Element Check** function required the user to import multiple parameters increasing the complexity. In order to simplify the process, a new **Element Check** tool similar to that found in UV Touch is now available for Ultravision 3.8R16.



SNR evaluation tools

Noise Contour Box

It is now possible to rapidly define a specific area for the noise level and define a noise contour box for the different indications. The **Noise Contour Box** is similar to the **Indication Contour Box**, and used in conjunction with the new SNR and BAC5980 information fields.

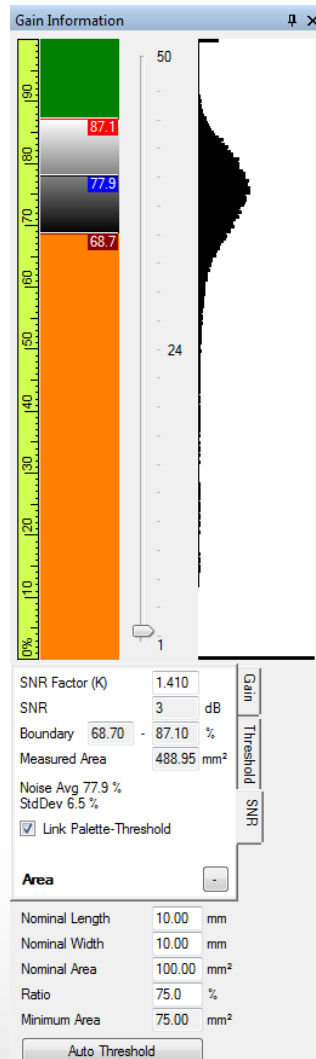
New Information Fields

Ultravision 3.8R16 includes new information fields to support the SNR analysis according to BAC5980. In the Statistics category, three subcategories are available:

- Noise Contour
- SNR
- BAC5980

SNR Evaluation Interface

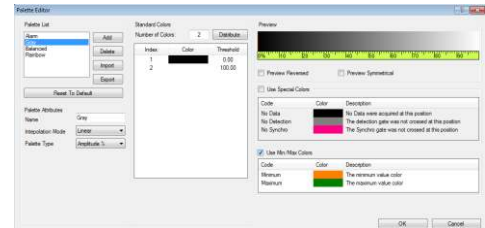
To conform to code BAC5980 and facilitate SNR analysis, a new SNR Evaluation Interface is now available in Ultravision 3.8R16. An SNR tab is available in the **Gain Information** interface to allow easy computation and visualization of the SNR Factor (K) and the corresponding boundaries.



Visual properties

Palette Min/Max Colors

Distinctive colors for maximum and minimum values of the palette are a convenient feature for analysis purposes. Ultravision 3.8R16 introduces the **Use Min/Max Colors** option for color palette definition allowing the user to define the special colors used for the palette extremities. The user can also define the color choices.



Enhanced Volumetric Merge Image Quality



Volumetric Merge is an important analysis tool for phased array UT data. An improved interpolation function is now available in Ultravision 3.8R16.

With this new function, the user can increase the volumetric view resolution resulting in a sharper and more defined image.

New Thickness Information Fields

New information fields for thickness analysis are now available in Ultravision 3.8R16.

These information fields are now compatible with the **True Depth PC** depth measurement type, and the Ultravision 3.8R16 required fields are dynamic during acquisition.