SNP is available on SONOSITE SII, SONOSITE Edge II, and X-Porte. See the user guide for your system for detailed procedures, cleaning, troubleshooting, and safety precautions.

About needle profiling technology

The SNP control turns on Steep Needle Profiling technology, a proprietary and patented software algorithm.

SNP enhances needle visualisation within a selected angle range while maintaining striking image quality of the target and surrounding anatomy. SNP can aid with in-plane needle guidance without additional hardware, equipment, or special needles.

For curved array transducers, SNP technology can help identify the direction of the needle, although only segments of the needle shaft may show in the image. Use of movement and fluid injection help verify the needle-tip location.

The SNP control is available in 2D full-screen imaging.
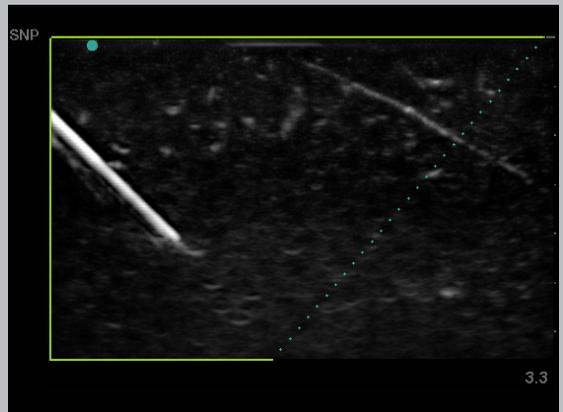
Transducer and exam types

▸ Transducers: C35x, C35xp, rC60xi, C60xp, HSL25x, HFL38xi, HFL38xp, HFL50x, HFL50xp, HSL25xp, L25x, L25xp, L38xi, or L38xp

▸ Exam types (depending on transducer): arterial, breast, musculoskeletal, nerve, small parts, venous, or spine

Needle size and angle

The enhancement of the needle is affected by the type and brand of needle used. Use of a conventional or non-echogenic 17- gauge to 25-gauge needle is recommended.

You can angle the needle up to 50° from the transducer surface (30° for a curved array transducer). Needle visibility may decrease if you go beyond 50°.

0 - 50°
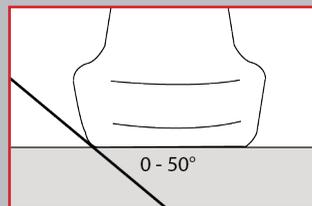
Use SNP

1 Select your transducer and exam type.
2 Apply gel and adjust the transducer angle and rotation to highlight the target anatomy.
3 Select the depth of scan.
4 Select the **SNP** button.
5 Choose between **Shallow**, **Medium**, or **Steep** depending on the needle target.
6 Adjust the gain and depth as needed to optimize the image.
7 Insert the needle and use the live image to complete the procedure.
8 **Off** turns off SNP.

Subcontrols

- **L/R Flip** horizontally changes the orientation of the enhanced area.

- **Shallow**, **Medium**, or **Steep** sets the sloped edge of the dotted line. The current selection is highlighted.

- Linear transducer: Use the setting that is the most perpendicular intersection with the dotted line.
- Curved array transducer: For a target anatomy angled 30° or less from the transducer surface, use **Shallow**. For a linear structure angled 30° to 40°, use **Medium**. For a linear structure angled 40° or greater, use **Steep**.
- Temporarily turning off SNP can help you identify artifacts and other structures.

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Read the user guide for important safety information.

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