

PAJUNK®



nerveblox®

*Artificial Intelligence for Ultrasound-Guided
Nerve Block Training*



DIGITAL SOLUTION BY PAJUNK

Artificial Intelligence for Ultrasound-Guided Nerve Blocks

Ultrasound-Guided Nerve Block Training has developed throughout the decades and has driven the popularity of Regional Anaesthesia. Starting with paresthesia technique, then nerve stimulation to ultrasound-guided techniques, new blocks have emerged and allowed practitioners to perform safer regional anaesthesia for an ever growing spectrum of medical procedures.

The introduction of ultrasound into regional anaesthesia was a pivotal step. However, it brought some additional complexity related to reading and interpreting the sono-anatomy picture and combining the anatomy knowledge of the practitioner and the tactile feel and placement of the needle.

Based on current studies¹, AI technology can successfully interpret anatomical structures in real-time sonography assisting anaesthesiologists during ultrasound-guided nerve block procedures.

Features



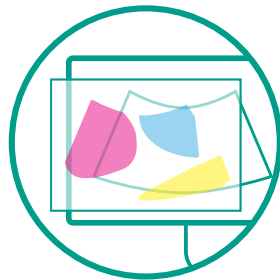
Built-in Block Anatomy Information

- Anatomy information for each block
- Ultrasound pictures
- Probe placement guidance



Updates Included in Subscription

- Improvements to recognition of existing blocks
- Addition of new blocks
- Free of charge to subscribers



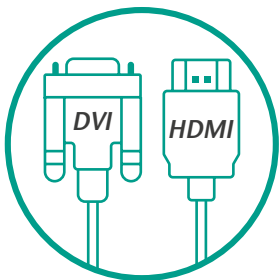
AI Driven Screen Overlay

- Allows for real-time identification of relevant anatomy (incl. nerves, muscles, vessels, pleura)
- Labels and overlays key anatomical structures with different colours
- Assists physician in quickly interpreting ultrasound images
- Clinically validated



Scan Success Gauge

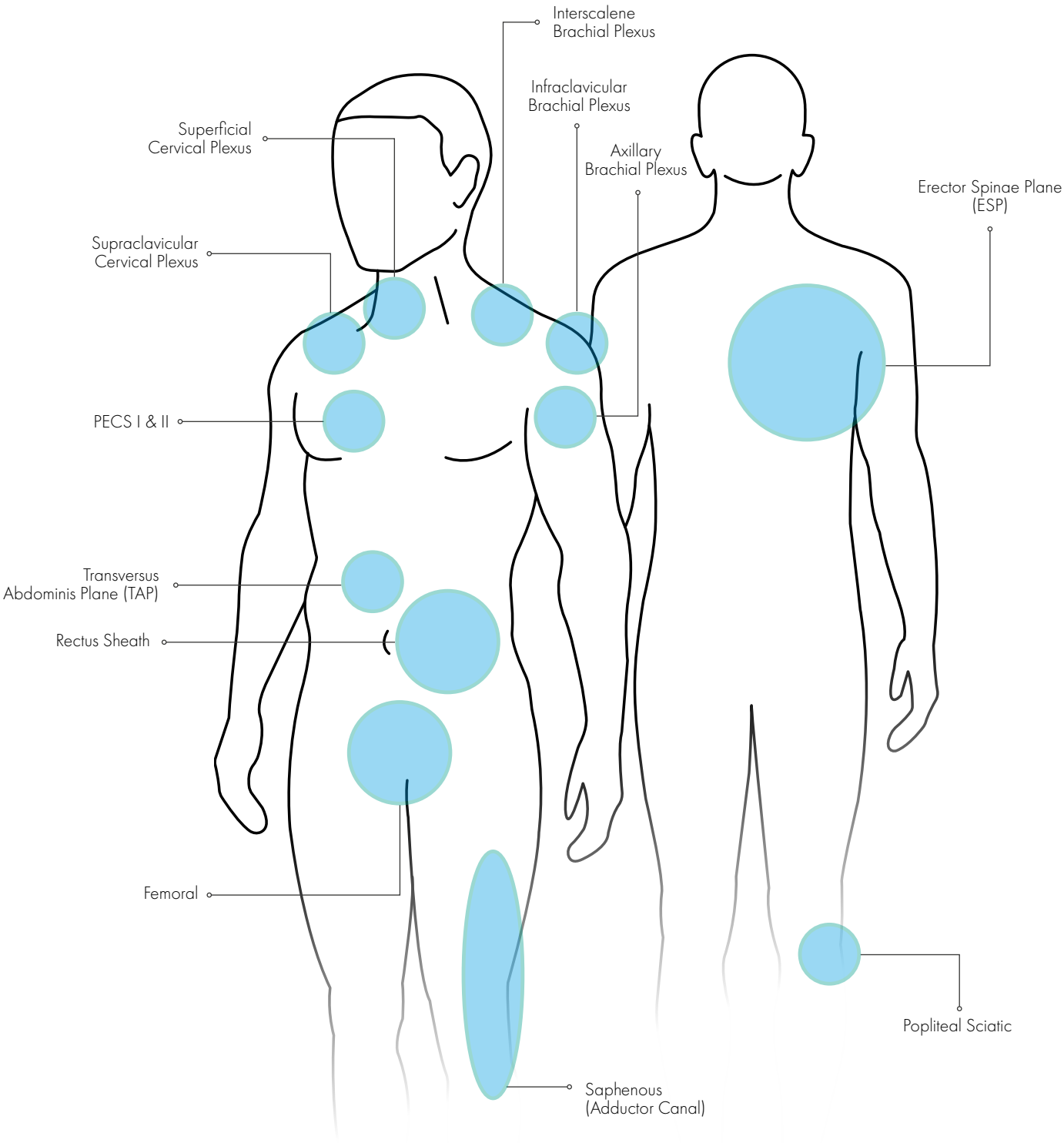
- Provides instant feedback on the probe position



Compatible With All Existing Ultrasound Machines

- Works with any ultrasound machine with DVI or HDMI output

The nerveblox AI is continuously being improved in our laboratories, allowing for a better recognition of the anatomical structures. Currently the system knows the anatomy of the following blocks:



¹ Gungor, I., Gunaydin, B., Oktar, S.O. et al. A real-time anatomy identification via tool based on artificial intelligence for ultrasound-guided peripheral nerve block procedures: an accuracy study. J Anesth 35, 591–594 (2021)

Available Plans

Description	Item no.
6 month nerveblox license, 1 computer (incl. updates)	1000-00-06
12 month nerveblox license, 1 computer (incl. updates)	1000-00-12
24 month nerveblox license, 1 computer (incl. updates)	1000-00-24

Hardware Requirements

Minimum System Requirements

Operating System	Windows 10 (64 bit) or newer version
CPU	Intel i3 10th Gen or AMD Ryzen3 Series 3000 (recommended Intel i5 10th Gen)
Memory (RAM)	8 GB
Disk Space	1 GB free space

Peripherals

Mouse or Touch Screen, 2 free USB 3.0 ports, HDMI Video Capture Card/Adapter

nerveblox is a software. Any hardware necessary to run the software (PC, video capture card) is not part of the nerveblox package and has to be purchased separately.

* Software to be used for training purposes only.



Book a demo

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