



Ambu – Everyday Solutions

Regional Anesthesia Needles and
Catheters for Peripheral Nerve Blocks

Temena Needles & Catheters

Superior products for regional anesthesia

- Wide range of needles and catheters
- Superior quality
- Echogenic stimulating needles
- Stimulating catheters available



The Idea

Full Range of Regional Anesthesia Products

In the field of Regional Anesthesia we offer a broad assortment of products, from Ultrasound needles, stimulating catheters and nerve stimulators, to our innovative ACTion Pain pumps for continuous nerve blocks. Our Regional Anesthesia solution offers all the necessary clinical tools to ensure optimal workflows and reduce costs for your facility.



Our Work

Customized by your feedback

Temena needles were designed with the anesthesiologist in mind. Our dual ergonomic hub design assists in keeping the needle steady during insertion. The ultrathin coating of parylene on our echogenic needles allows for clean visibility of the needles under ultrasound as well as a smooth and easy insertion. The Polymedic Hybrid needle is the perfect balance between echogenic properties and stimulating capabilities to ensure superior reliability for every situation.



Everyone's Life

Providing you with uncompromising quality & variety

A truly unique line of needles and catheters that offer various beveled tip designs, lengths, gauges and a needle with reliable echogenic properties.

Ultrasound - Single Injection

USC - 20° Bevel

Features and Benefits

- 20° bevel needles for peripheral nerve blocking under ultrasound guidance.
- The USC needle was designed for easy insertion through the skin, easy guidance through the tissue and a clean view of the needle tip under ultrasound guided techniques
- The echogenic properties of the USC needle are created by a unique coating that minimize artifacts but still produces a clear and quality image of the needle for easy detection of the needle when approaching the nerve.



Ordering Specifications

ITEM NO.	NAME	DESCRIPTION	UNITS/BOX
900 000 727	Ultrasound Needle 50 mm	Polyplex Echogenic Needle, 22G x 50mm	10
900 000 728	Ultrasound Needle 90 mm	Polyplex Echogenic Needle, 21G x 90mm	10
900 000 729	Ultrasound Needle 120 mm	Polyplex Echogenic Needle, 21G x 120mm	10

*Ask your representative for other sizes available

USB - 30° Bevel

Features and Benefits

- 30° Bevel Needles for Peripheral Nerve Blocking Under Ultrasound Guidance.

Ordering Specifications

ITEM NO.	NAME	DESCRIPTION	UNITS/BOX
900 000 730	Ultrasound needle 50 mm	Polyplex Echogenic Needle, 22G x 50mm	10
900 000 731	Ultrasound Needle 90 mm	Polyplex Echogenic Needle, 21G x 90mm	10

*Ask your representative for other sizes available

Ultrasound - Echogenic Stimulation

Hybrid Needles

Features and Benefits

- 20 degree bevel for easy insertion.
- The Hybrid needle offers both echogenic and stimulating properties while performing peripheral nerve blocks..
- The echogenic needle is manufactured with an ultrathin coat coating that does enhance needle detection under ultrasound.
- This needle offers a high resolution in both techniques.

Ordering Specifications

ITEM NO.	NAME	DESCRIPTION	UNITS/BOX
900 000 724	Ultrasound Needle 55 mm	Polplex Echo Stimulating, 22G x 55mm	10
900 000 725	Ultrasound Needle 95 mm	Polplex Echo Stimulating, 21G x 95 mm	10
900 000 726	Ultrasound Needle 150mm	Polplex Echo Stimulating, 21G x 150mm	10

*Ask your representative for other sizes available



Ultrasound - Continuous

Echo-Polyplex - 20° Bevel

Features and Benefits

- Echo-polyplex offers our USC needle with all its typical advantages in one set with a catheter and a teflonized stylet.
- Connector type is Tuohy Borst and filter is a $0,2\mu$.
- Sets for continuous peripheral nerve blocks with ultrasound needle and ultrasound catheter.

Ordering Specifications

ITEM NO.	NAME	DESCRIPTION	STYLET	OTHERS	UNITS/BOX
900 000 733	echo-polyplex 50	Echo Polyplex 50: 18G x 50mm needle, 20G x 400mm catheter	Teflonized	- Thread device	10
900 000 734	echo-polyplex 50	Echo Polyplex 90: 18G x 90mm needle, 20G x 400mm catheter	Teflonized	- Thread device	10

*Ask your representative for other sizes available

Echo-Polyplex C50K EH

Features and Benefits

- This hybrid set was conceived especially for peripheral nerve blocks and contains the basic set up needs, which are necessary for undertaking continuous nerve blocks under ultrasound guidance.

Ordering Specifications

ITEM NO.	NAME	DESCRIPTION	ACCESSORIES	UNITS/BOX
900 000 732	Echo-Polyplex C50K EH	Echo Polyplex, 18G x 50mm	- With Introducer - Catheter fixation - Extension tube with phthalate free PVC surgical sponge - 10 Gauze sponges 10 X 10 cm - Adhesive drape - Transparent drape	10

*Ask your representative for other sizes available

Single Injection - Stimulation

UPA - Pencil Point

Features and Benefits

- The UPA stimulation needle offers a non-traumatic pencil point
- Its over moulded ergonomic hub covers the connection between the needle, the extension tube and the connecting cable, avoiding any leaking of liquid.
- The needle is coated with insulating polyesters in order to increase its smooth gliding capacity within the tissues reducing the pain of the patient.
- Stimulation area is isolated to the extreme tip of the needle to reduce the stimulation field and create higher precision.
- 2 mm female electric connection, compatible with all standard peripheral nerve stimulators.
- Centimetric markings on the entire length to enable visual control of the penetration depth.



Ordering Specifications

ITEM NO.	NAME	NEEDLE DIAMETER	NEEDLE LENGTH	UNITS/BOX
900 000 700	UPA 90	21 G	90 mm	10

*Ask your representative for other sizes available

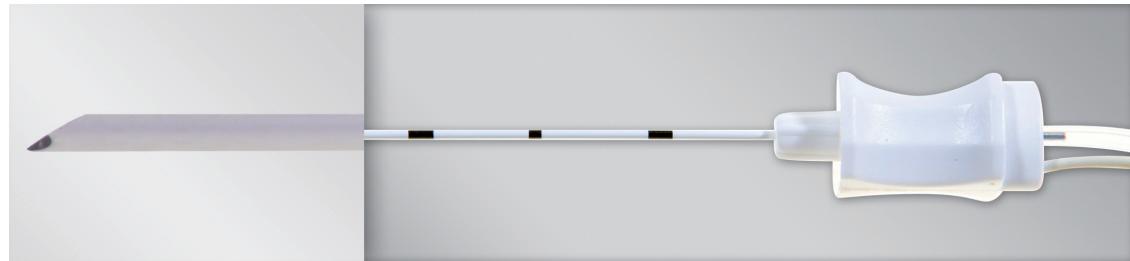
Also available upon request, 45° beveled cut needles.

Single Injection - Stimulation

UPB - 30° Bevel

Features and Benefits

- Stimulation needles with double "back cut" 30° bevel.
- Its over moulded ergonomic hub covers the connection between the needle, the extension tube and the connecting cable, avoiding any leaking of liquid.
- The needle is coated with insulating polyesters and a smooth silicon surface to increase its gliding capacity within the tissues, reducing the pain of the patient.
- The bevel's surface is free from polyesters and its stimulation area extends along its entire length.
- 2 mm female electric connection, the needles are compatible with all standard peripheral nerve stimulators.



Ordering Specifications

ITEM NO.	NAME	NEEDLE DIAMETER	NEEDLE LENGTH	UNITS/BOX
900 000 701	UPB 25	24 G	25 mm	10
900 000 702	UPB 35	24 G	35 mm	10
900 000 703	UPB 50	22 G	50 mm	10
900 000 704	UPB 70	22 G	70 mm	10
900 000 705	UPB 90	21 G	90 mm	10
900 000 706	UPB 100	21 G	100 mm	10
900 000 707	UPB 120	21 G	120 mm	10
900 000 708	UPB 150	21 G	150 mm	10

*Ask your representative for other sizes available

Single Injection - Stimulation

UPC - 20° Bevel

Features and Benefits

- Stimulation needles with 20° bevel.
- Its over moulded ergonomic hub covers the connection between the needle, the extension tube and the connecting cable, avoiding any leak of liquid.
- The needle is coated with insulating polyesters and a smooth silicon surface to increase its gliding capacity within the tissues, reducing the pain of the patient.
- Only the extreme tip of the needle is not insulated and stimulates, providing a reduced stimulation field and a higher precision.
- With their 2 mm female electric connection, the needles are compatible with all standard peripheral nerve stimulators.
- These needles have centimetric markings on the entire length to enable visual control of the penetration depth.



Ordering Specifications

ITEM NO.	NAME	NEEDLE DIAMETER	NEEDLE LENGTH	UNITS/BOX
900 000 709	UPC 25	24 G	25 mm	10
900 000 710	UPC 50	22 G	50 mm	10
900 000 711	UPC 70	22 G	70 mm	10
900 000 712	UPC 90	21 G	90 mm	10
900 000 713	UPC 90 - 22G	22 G	90 mm	10

*Ask your representative for other sizes available

Single Injection - Stimulation

UPM - 45° Bevel

Features and Benefits

- The UPM stimulation needle offers a short 45° bevel.
- Its over moulded ergonomic hub covers the connection between the needle, the extension tube and the connecting cable, avoiding any leak of liquid.
- The needle is coated with insulating polyesters, and undergoes a dry siliconization in order to increase its smooth glide capacity within the tissues, reducing the pain of the patient.
- The entire bevel surface is free from polyesters and stimulates.
- These needles have centimetric markings on the entire length to enable visual control of the penetration depth.



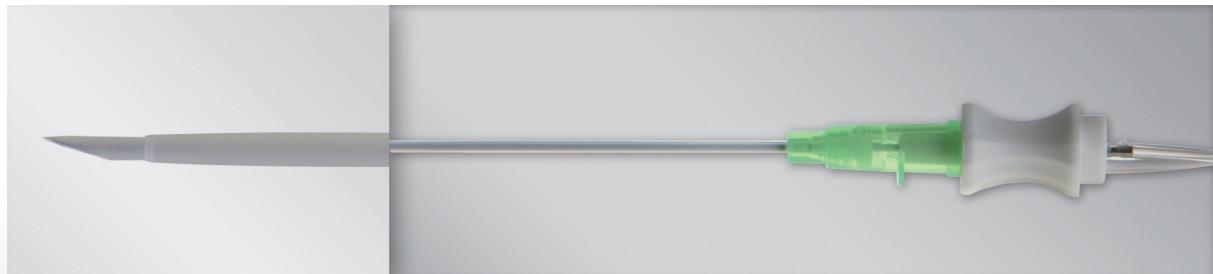
Call for part numbers and pricing.

Continuous with Stimulation

Polyplex C - 20° Bevel

Features and Benefits

- The polyplex C set offers our UPC stimulation needle with all its typical advantages of a 20° bevel needle, making it possible to pierce without previous incision.
- The teflonized stylet prevents possible kinking of the catheter and makes it possible to introduce the catheter deep into the nerve sheath.
- Connector type is Tuohy Borst and filter is a $0,2\mu$.
- Sets for continuous peripheral nerve blocks with 20° bevel stimulation needle and catheter.



Call for part numbers and pricing.

Continuous with Stimulation

Polyplex B - 30° Bevel

Features and Benefits

- Polyplex B set offers a UPB stimulation needle with all the advantages of a "back cut" bevel.
- The 30° back cut bevel improves the perception of the needle's passage through the different tissues.
- The teflonized stylet prevents possible kinking of the catheter and makes it possible to introduce the catheter deep into the nerve sheath.
- Connector type is Tuohy Borst and filter is a 0,2µ.
- Sets for continuous peripheral nerve blocks with 30° "back cut" bevel stimulation needle and catheter.



Ordering Specifications

ITEM NO.	NAME	NEEDLE SIZE	IV CANNULA SIZE	CATHETER SIZE	STYLET	OTHERS	UNITS/BOX
900 000 715	Polyplex B90	21G x 102,3 mm	18G x 51 mm	21G x 400 mm	Teflon™ coated	- Catheter Fixation - Thread device	10

Polyplex CT - 20° Bevel

Features and Benefits

- Polyplex CT sets offer the same features as standard polyplex C sets, but with a fairly shorter IV cannula.
- The reduced length of the IV cannula makes the puncture easier because the tip of the IV cannula is distant from the tip of the needle. The diameter of the puncture corresponds to the O.D. of the 21 G stimulation needle.
- As soon as the nerve has been located, the IV cannula can slide until the first centimetric marking is visible on the stimulation needle, indicating very precisely that the tip of the IV cannula has reached the tip of the needle.



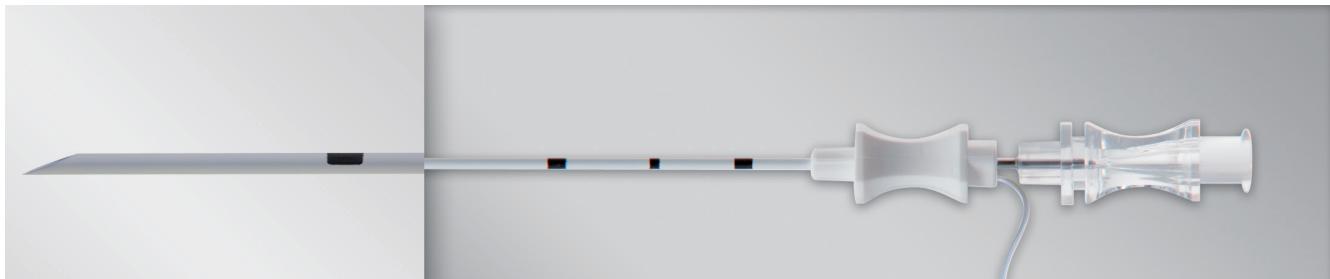
ITEM NO.	NAME	NEEDLE SIZE	IV CANNULA SIZE	CATHETER SIZE	STYLET	OTHERS	UNITS/BOX
900 000 720	Polyplex C100T	21G x 100 mm	18G x 51mm	20G x 400 mm	Teflon™ coated	- Catheter Fixation - Thread device - Mini scalpel	10

Continuous with Stimulation

Polyplex CK - 20° Bevel

Features and Benefits

- Sets for continuous peripheral nerve blocks with catheter through needle technique and UPC needle without IV cannula.
- Polyplex CK sets offer the same features as polyplex C sets but without the help of an IV catheter.
- The catheter is introduced directly into the inner lumen of the stimulation needle, which obviously has a wider diameter than a polyplex C needle with IV catheter (18G instead of 21G).
- The absence of IV catheter reduces time for catheter insertion.
- Connector type is Tuohy Borst and filter is a 0,2 μ .



Ordering Specifications

ITEM NO.	NAME	NEEDLE SIZE	CATHETER SIZE	STYLET	OTHERS	UNITS/BOX
900 000 719	polyplex C150K	18G x 150 mm	21G x 500 mm	Teflon™ coated	- Catheter Fixation - Extension tube - Thread device	10

*Ask your representative for other sizes available

Continuous with Stimulation

Polyplex T - Tuohy

Features and Benefits

- Sets for continuous peripheral nerve blocks with catheter and Tuohy needle without IV cannula.
- Polyplex T sets offer the same advantages as polyplex CK sets, with a Tuohy type needle instead of a 20° bevel.
- The Tuohy needle allows the catheter to be withdrawn diagonally, which makes the introduction into certain vascular nerve sheaths easier (Scalenus, Ischiadicus....).
- Connector type is Tuohy Borst and filter is a 0,2µ.



Ordering Specifications

ITEM NO.	NAME	NEEDLE SIZE	CATHETER SIZE	STYLET	OTHERS	UNITS/BOX
900 000 716	polyplex T50	18G x 50 mm	21G x 500 mm	Teflon™ coated	- Catheter Fixation - Extension tube - Thread device	10
900 000 717	polyplex T90	18G x 90 mm	21G x 750 mm	Teflon™ coated	- Catheter Fixation - Extension tube - Thread device	10
900 000 718	polyplex T150	18G x 150 mm	21G x 900 mm	Teflon™ coated	- Catheter Fixation - Extension tube - Thread device	10

*Ask your representative for other sizes available

Continuous Stimulating Catheter

Polyplex T Plus Arro - Tuohy

Features and Benefits

Polyplex T plus ARRO offer the following advantages versus other versions:

- The Tuohy needle exposes more uncoated cannula surface at the tip and added wings for axial stability.
- The catheter has an increased diameter as well as the stylet and a ball tip to increase the stimulating field.
- The catheter material is different in order to increase stiffness and offers an extension of marking length.
- The new J-Clip system enables the use of a polyplex set with one hand, facilitating the catheter introduction and increasing safety.
- The stimulation can be performed by 2 techniques:
 - Using the J-Clip over a Tuohy needle.
 - Using an electroconductive Tuohy Borst adapter over the stylet.
- Connector type is Tuohy Borst and New J Clip. The filter is a $0,2\mu$.
- Sets for continuous peripheral nerve blocks with stimulating catheter and Tuohy needle without IV cannula.



Catheter's double stylet



Catheter's tip



J-Clip



TBA-Ring



Ordering Specifications

ITEM NO.	NAME	NEEDLE SIZE	CATHETER SIZE	STYLET	OTHERS	UNITS/BOX
900 000 721	polyplex T50 plus Arro	17G x 50 mm	21G (0.88 mm) x 600 mm	Stimulating 0.15 mm	- Catheter Fixation - Extension tube - Thread device	10
900 000 722	polyplex T90 plus Arro	17G x 90 mm	21G (0.88 mm) x 600 mm	Stimulating 0.15 mm	- Catheter Fixation - Extension tube - Thread device	10
900 000 723	polyplex T150 plus Arro	17G x 150 mm	21G (0.88 mm) x 600 mm	Stimulating 0.15 mm	- Catheter Fixation - Extension tube - Thread device	10

Peripheral Nerve Blocks - Stimulators & Accessories

Polystim II

Features and Benefits

- The polystim II peripheral nerve stimulator offers digital functions, a digital screen, a stimulation field from 0 to 5 mA, with 3 adjustable lengths of stimulating impulses.
- These features allow the peripheral nerve to be located rapidly.
- The actual current transmitted to the patient can be checked simultaneously.

Ordering Specifications

ITEM NO.	DESCRIPTION	UNITS/BOX
900 000 736	Stimulator with accessories: monopolar connecting cable, alkaline battery, user's manual, protecting plastic box.	1
900 000 735	Monopolar connecting cable	1



Peripheral Nerve Stimulator - SunStim™

SunStim

Features and Benefits

- Stimulator output current is fully adjustable from 0-70 mA.
- Switch functions:
 - Stand-by position: no stimulus pulses are generated.
 - Twitch: 1 pulse per second.
 - Tetanus: 100 Hz (100 pulses/s).
 - Built-in train of four: 4 pulses in a period of 2 seconds.
- Battery indicator light flashes when battery needs to be replaced.
- LED (green) battery light indicates that the unit is on, flashes on low battery.
- LED (red) flashes with audible indicator sounds each time a stimulus pulse is generated.
- Lightweight: 0.25lbs including battery.
- Standard battery: 9 volt alkaline.

Ordering Specifications

ITEM NO.	DESCRIPTION	UNITS/BOX
900 000 737	SunStim™ Peripheral Nerve Stimulator	1



Peripheral Nerve Stimulator - SunStim™ Plus

SunStim Plus

Features and Benefits

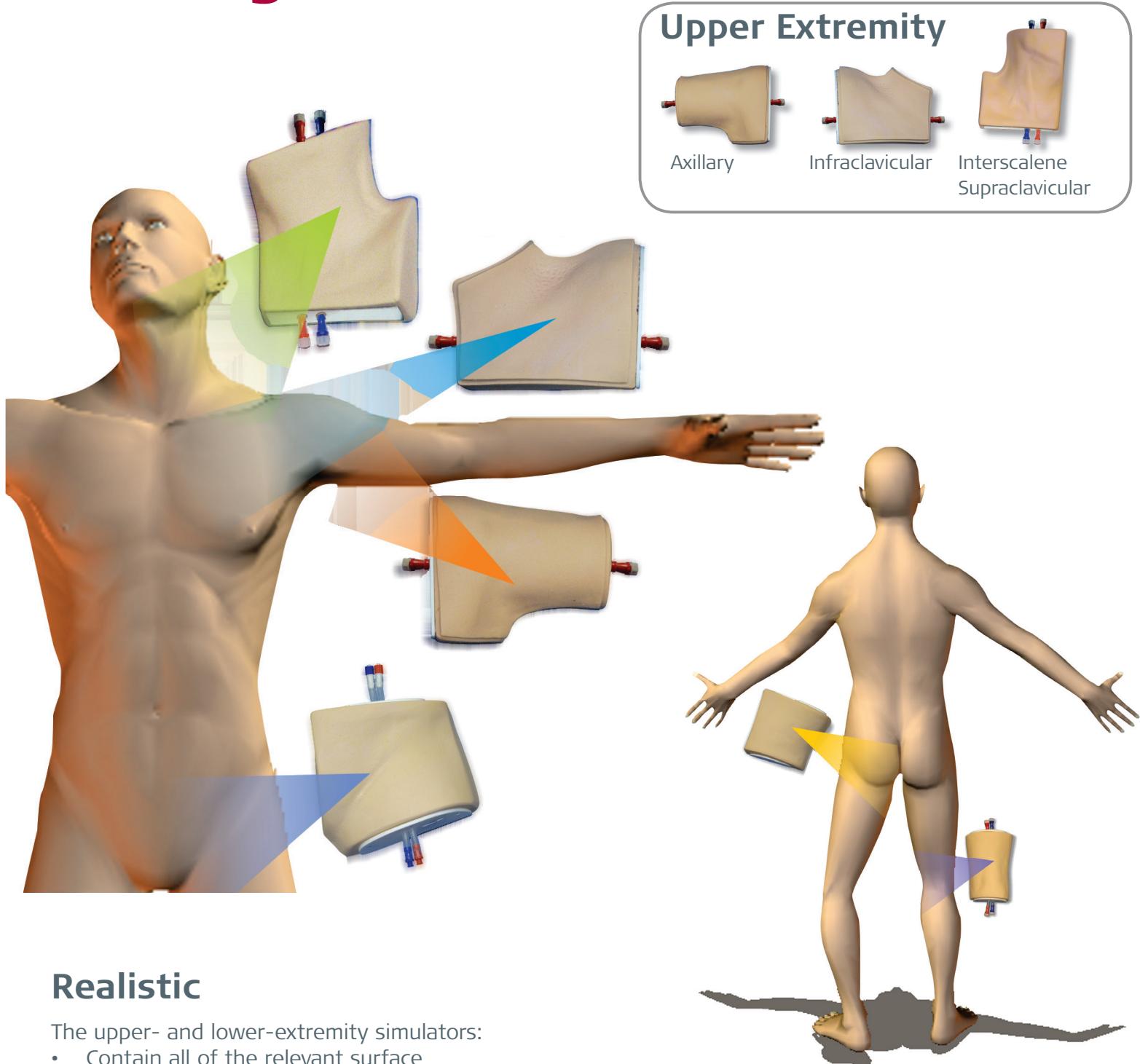
- Stimulator output current is fully adjustable from 0-70 mA.
- Switch functions:
 - Double burst: 2 60-ms bursts of 50 Hz separated by .75 s.
 - Twitch: 1 pulse per second.
 - Tetanus: 50 Hz (50 pulses/s) or 100 Hz (100 pulses/s).
 - Built-in train of four: 4 pulses in a period of 2 seconds.
- Stimulus pulse: square wave monophasic pulses.
- (200- μ s duration).
- LED (green) battery light indicates that the unit is on, flashes on low battery.
- LED (red) flashes with audible indicator sounds each time a stimulus pulse is generated.
- Lightweight: 0.25lbs including battery.
- Standard battery: 9 volt alkaline.

Ordering Specifications

ITEM NO.	DESCRIPTION	UNITS/BOX
900 000 738	SunStim™ Plus Peripheral Nerve Stimulator	1



Innovative Peripheral Nerve Block Training Solutions



Realistic

The upper- and lower-extremity simulators:

- Contain all of the relevant surface landmarks, palpable subcutaneous anatomical structures and internal reference points associated with the blocks they represent.
- Exhibit realistic echogenic properties for the embedded muscle, vascular, bony and nervous structures.

Upper Extremity



Lower Extremity



MODEL	SURFACE LANDMARKS	INTERNAL LANDMARKS
MiniSim™ Trainer MS-TRN	Universal ultrasound phantom (shown below)	Produces typical ultrasound images of veins, arteries, muscle, bone, and hyper- and hypo-echoic nerves
UPPER EXTREMITY SERIES - FULL SET - 900-000-238		
MODEL	SURFACE LANDMARKS	INTERNAL LANDMARKS
Interscalene / Supraclavicular 900-000-248	<ul style="list-style-type: none"> Sternocleidomastoid muscle Cricoid Cartilage Supraclavicular fossa 	<ul style="list-style-type: none"> First rib Clavicle Internal jugular vein Carotid and subclavian arteries Anterior and middle scalene muscles Brachial plexus roots / trunks
Infraclavicular 900-000-249	<ul style="list-style-type: none"> Infraclavicular fossa Pectoralis major 	<ul style="list-style-type: none"> Clavicle Coracoid process Pectoralis major and minor Axillary artery and vein Brachial plexus divisions/cords
Axillary 900-000-250	<ul style="list-style-type: none"> Deltoid, choracobrachialis and biceps muscles Axilla 	<ul style="list-style-type: none"> Biceps, triceps and coracobrachialis muscles Axillary artery and vein Brachial plexus branches
LOWER EXTREMITY SERIES - FULL SET - 900-000-239		
MODEL	SURFACE LANDMARKS	INTERNAL LANDMARKS
Sciatic sub-gluteal 900-000-252	<ul style="list-style-type: none"> Buttock 	<ul style="list-style-type: none"> Greater trochanter Ischial tuberosity Gluteus maximus Sciatic nerve
Femoral 900-000-253	<ul style="list-style-type: none"> Inguinal crease 	<ul style="list-style-type: none"> Anterior superior iliac spine Pubic tubercle Pubis Femoral nerve, artery and vein Iliopsoas and pectineus muscles
Popliteal 900-000-251	<ul style="list-style-type: none"> Popliteal crease Biceps femoris, semimembranosus and semitendinosus muscles 	<ul style="list-style-type: none"> Tibial, common peroneal and sciatic nerves Biceps femoris and semitendinosus muscles Popliteal artery and vein

eZono™ 3000 Feature

System

- 26.4 cm (10.4") diagonal LCD touch screen with
- 24-bit and 60 million colors
- 8 GB internal memory
- 2x USB 2.0 ports, 1 Express Card port, built-in microphone

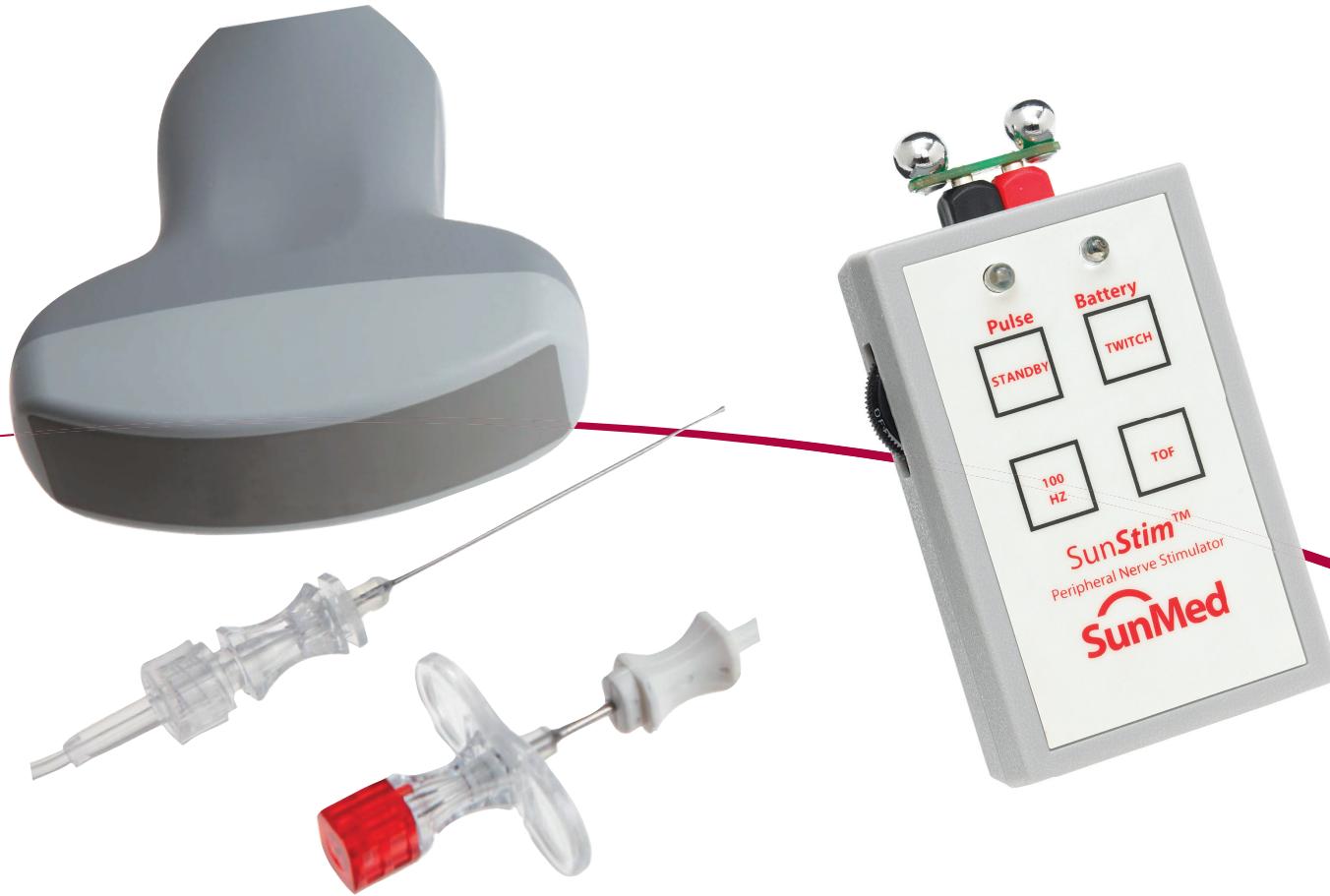
Software

- Free software updates via USB stick
- Less than 20 seconds boot time, less than 6 seconds back from stand-by
- Touch screen icon-based graphical user interface probes
Linear, convex, and micro convex probes available
Multi-media patient database
- Stores up to 30,000 pictures or 31 minutes of video internally
- Image transfer via USB stick



Model number: 900-000-236

Model Number 900-000-236 does not include stimulator or simulator pictured above



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