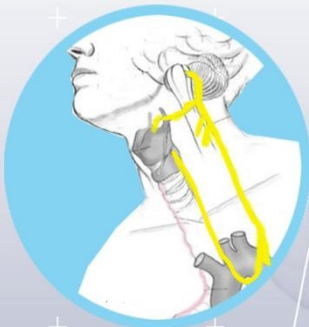


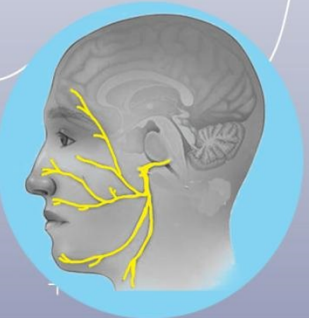
# Intraoperative Nerve Monitor

## Smart IOM XP-1E/XP-1F

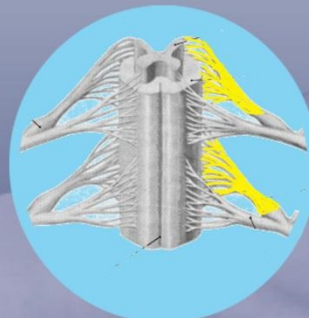
Your solution to nerve damage  
Prevention during surgeries



Recurrent Laryngeal Nerve (RLN)



Cranial Nerve VII (FN)



Selective Posterior Rhizotomy (SPR)



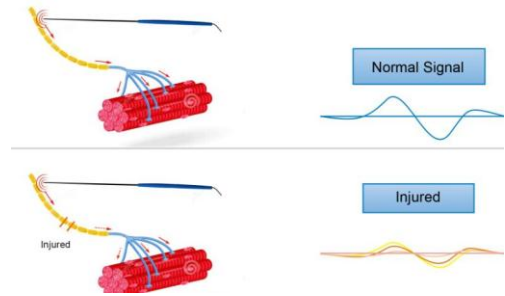
## About Smart IOM

Developed by a team of experts with 15 years of experience in the field of electrophysiology, Smart IOM is designed for intraoperative neurophysiological monitoring (IONM) or intraoperative neuro-monitoring, which utilizes the electrophysiological methods to monitor functional integrity of certain neural structures during surgery.

Smart IOM helps to prevent nerve damage during surgery by monitoring the EMG activities in multiple peripheral nerves, and providing real-time audio and visual feedback if any nerve is activated.

Smart IOM can support the surgeons with the following functions:

- Identification of nerve and tissues.
- Confirmation of injected nerves and their locations.
- Monitoring of nerve integrity in real-time, such as:
  - ◆ Thyroidectomy: Vagal nerve, SLN, RLN detection during head and neck surgery by monitoring vocal cord muscles' response the stimulus.
  - ◆ Facial nerve monitoring during ENT, oral and maxillofacial surgery by observing the activities of orbicularis oris and orbicularis oculi muscles.
  - ◆ In SPR surgery, the rootlets that cause spasticity can be identified by examining EMG responses of muscles in the lower extremities when each rootlet is electrically stimulated.
  - ◆ Other motor nerves during various surgeries.



## Product Specifications



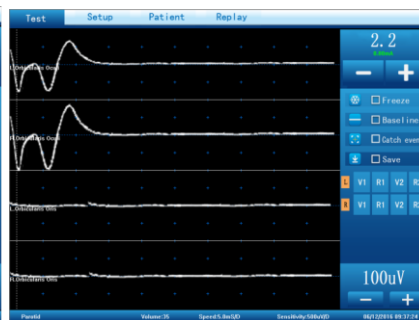
Type	Smart IOM XP-1F	Smart IOM XP-1E
Recording channels	4	8
Stimulation parameters	0 – 30 mA, 1 - 30Hz, with safety setting	
Stimulation Pulse width	20 – 250 $\mu$ s in steps	
Feedback Display & Notification	Visual display and audio feedback	
Default and customizable procedure settings	Yes	
Data saving and reporting	Yes	
Electrode status checking	Yes	

## Operation Mode

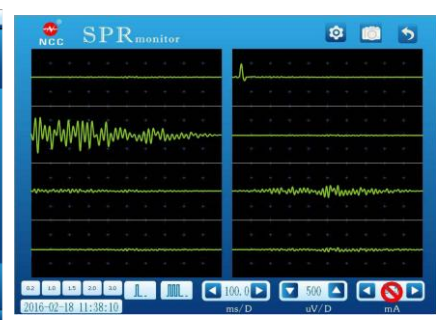
### Spontaneous EMG mode



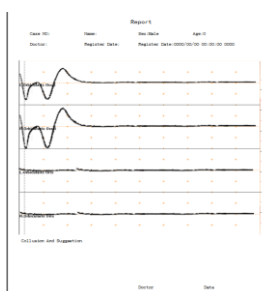
### Monitoring mode



### SPR Monitoring mode



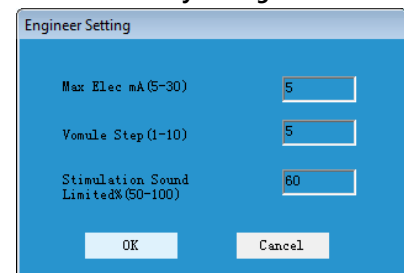
### Date review and reporting



### Setting



### Safety setting

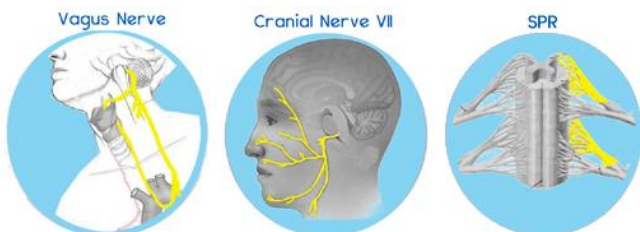


# Features

Smart IOM conducts intraoperative nerve monitoring (IONM) with high performance differential amplifier that can be used for various types of surgeries. Manufactured with high quality components, the system is reliable and safe.

## Versatile

Smart IOM can be used with different sets of accessories for different types of surgeries.



## LCD touch screen and user friendly interface

User friendly interface and easy-to-follow instructions are built in and presented on a colored LCD touch screen.



## Convenient marking function

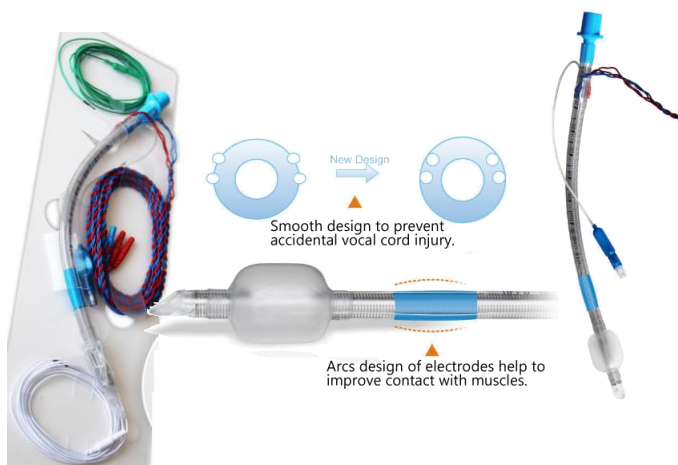
During thyroid surgery, surgeons can add markers of V1/R1/V2/R2 as important indicators on output waveforms for review.



## Special design EMG endotracheal tube

Smooth electrode tube design helps to prevent accidental vocal cord injury, and the electrode placement ring is designed for improved muscle contact.

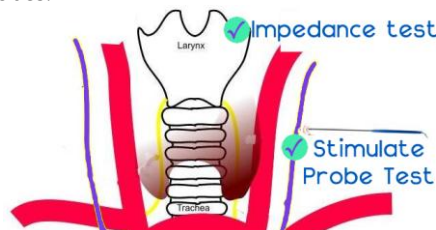
There are 5 tube sizes available to suit patients with different body sizes, and the built-in 4 electrode channels enable fast set up and accurate EMG signal display.



WET6.0 WET6.5 WET7.0 WET7.5 WET8.0

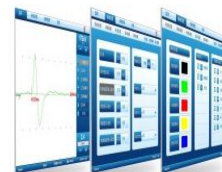
## Electrode and probe touch check

Impedance and real-time stimulation intensity monitoring help to ensure connection of electrodes and probes.



## Customizable parameter settings

Default parameters vary according to the types of surgeries to be conducted, and the parameters can be customized for optimal performance.



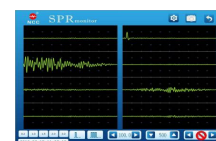
## Ergonomic design

15-inch large screen enables surgeons to clearly view the signals, and long connection cables enable surgeons to place the machine at a safe distance from the operating bed.



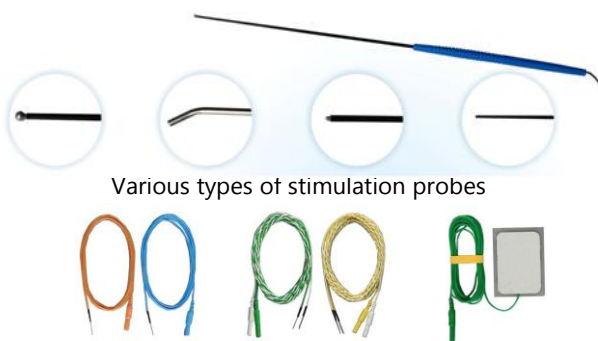
## Professional SPR Monitoring

Professional SPR interface useful for monitoring EMG output values of bilateral nerves for comparison and analysis.



## Various electrodes and probes

Unipolar and bipolar hypodermic needle electrodes and stimulation probes are available for various types of surgical requirements.



Recording and GND electrodes

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