THE NEUROSIGN® V4

INTRAOPERATIVE NERVE MONITOR

PRESERVING NERVE INTEGRITY

NEUROSIGN® V4

Wipe clean only. Do not soak.

This reference guide should consist of 6 double sided sheets.

Indications, contraindications, warnings, precautions and other safety information are contained in the Neurosign® V4 User Manual NOP08.

Consult the Neurosign® V4 User Manual before use.

**Discover more at;
neurosignsurgical.com**

Important: Before use, make sure you have read and understood the Neurosign® V4 Intraoperative Nerve Monitor User Manual (NOP08). Copies can be obtained from you local Neurosign representative.
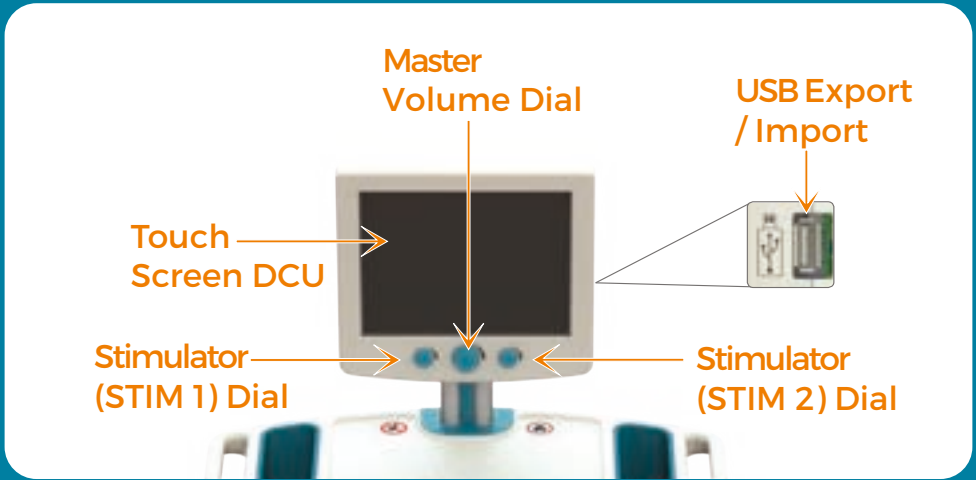
PRE-USE CHECKS

- Before use, the equipment and accessories should be checked for any damage or tampering. See "Damage Inspection" in the user manual (NOP08) for information.

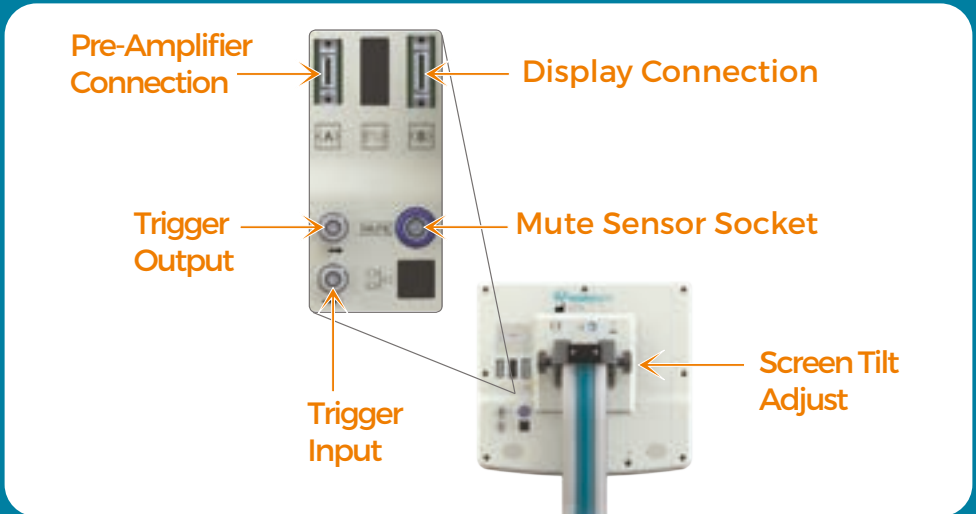 For Cleaning and Disinfection information refer to the user manual (NOP08).
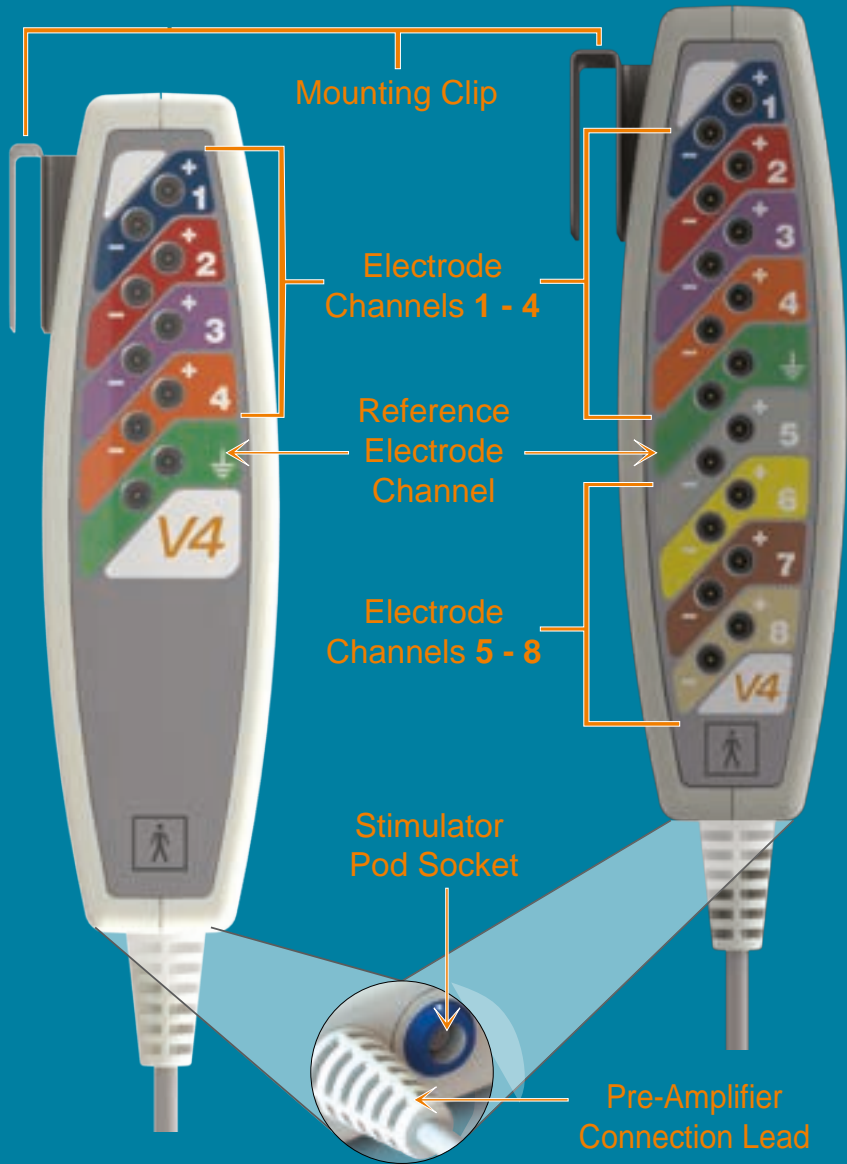
CONNECTION

FRONT UI VIEW

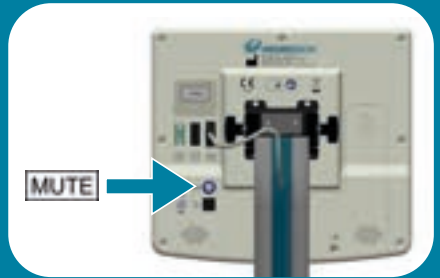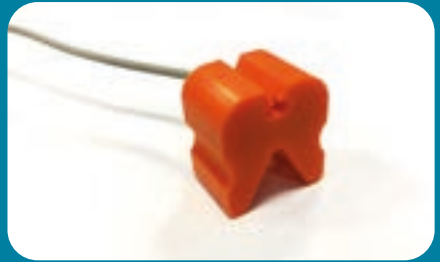Master
Volume Dial

USB Export
/ Import

Touch
Screen DCU

Stimulator
(STIM 1) Dial

Stimulator
(STIM 2) Dial

REAR UI VIEW

Pre-Amplifier
Connection

Display Connection

Trigger
Output

Mute Sensor Socket

Trigger
Input

Screen Tilt
Adjust

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PRE-AMPLIFIER

Mounting Clip

Electrode Channels **1 - 4**

Reference Electrode Channel

Electrode Channels **5 - 8**

Stimulator Pod Socket

Pre-Amplifier Connection Lead

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MUTE SENSOR

- If using, attach the mute sensor to the active lead of the electrocautery/diathermy device

- Plug the mute sensor cable into the socket on the rear of the touch screen DCU **MUTE** (right).

- **Do not** connect the mute sensor to the nerve monitor without attaching the clamp to the electrocautery cable or spurious muting of the nerve monitor may occur.

STIMULATOR POD

27. Mounting Clip

28. Primary Stimulator Sockets

29. Stimulator Pod Socket

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QUICK START SESSION (DEFAULT)

- On the **Home screen**, select ![surgeon icon]

- Select **Default** and press ➡

- Select a surgery procedure and press ➡

- Press Ω to check the electrode impedance.

  All indicators should show green ▇. If not, check/reposition the electrodes (refer to "impedance check" in the user manual for more information).

- Drape the patient

- Press (GO) to begin monitoring

- Press (STOP) to end monitoring

Note: In default mode, procedure settings can be altered via the monitoring menu but the settings cannot be saved.

Patient Reports

Patient reports are not available in the default profile. In order to save patient reports you must create a surgeon profile (see advanced features). A surgeon profile will also allow you to save your custom procedure settings.

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IN-SURGERY MENU

For more information refer to the user manual (NOP08).

Home

System Settings

Procedure Settings

Screen Capture (Not available in default mode)

Show/Hide Latency Cursors

Procedure Report (Not available in default mode)
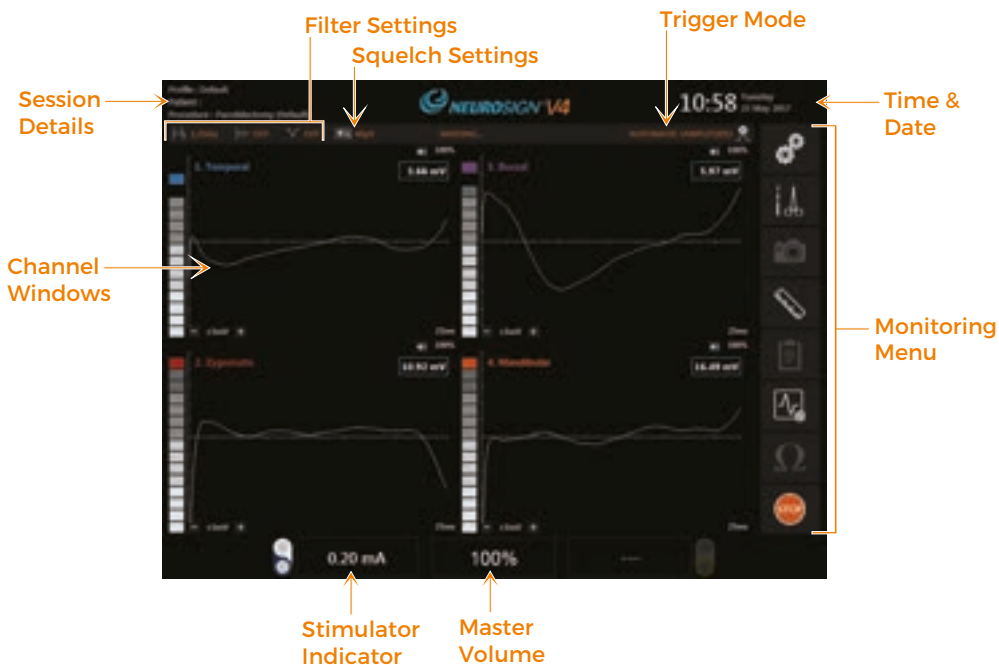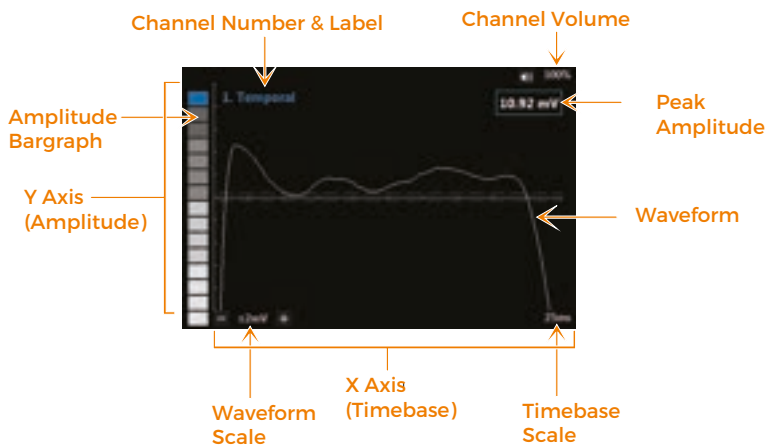
Waveform Settings

Impedance Check

GO **Start**

STOP **Stop**

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ACTIVE MONITORING SCREEN

Filter Settings

Squelch Settings

Trigger Mode

Session Details

Time & Date

Channel Windows

Monitoring Menu

Stimulator Indicator

Master Volume

CHANNEL WINDOW

Channel Number & Label

Channel Volume

Amplitude Bargraph

Peak Amplitude

Y Axis (Amplitude)

Waveform
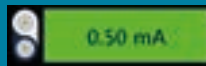
Waveform Scale

X Axis (Timebase)

Timebase Scale

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STIMULATOR ADJUST

- The **stimulator current** is displayed at the bottom of the 'active monitoring screen'. Set the stimulator current using the left stimulator dial.

- When the Stimulator Probe is used, the **stimulator indicator** should change to green (as below):

- If the stimulator indicator does not change colour, the probe has not stimulated at the set current (refer to "Troubleshooting" in the User Manual for more information).

VOLUME CONTROLS

- The **master volume** is shown in the middle at the bottom of the 'active monitoring screen'. Set the master volume using the central master volume dial.

- To **mute** all channels temporarily, press and hold the master volume dial for 2 seconds. The master volume display will then show the following:

- The **individual channel volume** is shown in the top right of each channel window. You can change the individual channel volume by pressing it.

ALARMS

- In the event of an alarm (below) follow the on-screen instructions.

ALARM

- More information can be found in the "Troubleshooting" section of the user manual.

MAJOR FAULT

- In the event of a major fault (below) discontinue use and refer to the user manual.

ADVANCED FEATURES

Custom surgeon profiles

To save patient reports and store your settings, you must create a password protected surgeon profile by pressing ⚕.

Refer to "Profile Management" in the user manual.

Custom procedures

You can save customised procedure settings for future use. Press ✂ to duplicate a default procedure and then press ✎ to edit it. Once you have finished making changes press ✔ to continue (not available in default mode).

Refer to "Custom Procedure" in the user manual.

Patient reports

Note: Not available in default mode. To save and access patient reports, patient details **must** be entered when prompted.

From the home screen press 📋 to access the **Report Management Screen**. Press ➡ to view the selected report.

Refer to "Patient Reports" in the user manual.

Settings

From the **Home Screen**, press ⚙ to access the Settings menu.

For more information see "Settings" in the user manual.