



NEURO TOUCHTM
HEALTHCARE TECHNOLOGY OF THE FUTURE

USER MANUAL



YOSTRA

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GENERAL USAGE

- THE NEURO TOUCH DEVICE MUST BE USED IN ACCORDANCE WITH THIS MANUAL AND ALL ASSOCIATED LABELING AND THE INSTRUCTIONS FOR USE
- ANY DEVICE THAT DOES NOT FUNCTION AS EXPECTED MUST BE REPORTED & RETURNED TO YOSTRA LABS
- THE ELECTRICAL INSTALLATIONS ON WHICH THE NEURO TOUCH DEVICE WILL BE USED MUST COMPLY WITH THE APPROPRIATE NATIONAL ELECTRICAL STANDARDS
- THE NEURO TOUCH DEVICE SHOULD ONLY BE USED IN THE INDICATED ENVIRONMENT
- THE NEURO TOUCH DEVICE WILL NOT FUNCTION WHILE CHARGING. UNPLUG THE CHARGER FOR THE DEVICE TO FUNCTION
- MAKE SURE THE NEURO TOUCH DEVICE IS SUFFICIENTLY CHARGED BEFORE STARTING THE SCREENING SESSION
- DO NOT USE THE NEURO TOUCH DEVICE WHEN LOW BATTERY WARNING IS DISPLAYED
- DO NOT AUTOCLAVE OR UV STERILIZE THE NEURO TOUCH DEVICE
- DO NOT USE THE NEURO TOUCH DEVICE IF DAMAGED, IF THE DEVICE MALFUNCTIONS OR HAS FALLEN, BEEN DAMAGED OR IMMERSSED IN WATER. CONTACT THE YOSTRA LABS SUPPORT IMMEDIATELY
- DO NOT DROP THE NEURO TOUCH DEVICE OR SUBJECT DEVICE TO STRONG SHOCKS OR VIBRATIONS
- ONLY USE THE CHARGER SUPPLIED BY YOSTRA LABS FOR THE NEURO TOUCH TO AVOID DAMAGING THE DEVICE
- DO NOT USE ANY ACCESSORIES THAT ARE NOT SUPPLIED/RECOMMENDED BY YOSTRA LABS
- DO NOT USE THE DEVICE WITH OTHER MEDICAL ELECTRICAL (ME) EQUIPMENT SIMULTANEOUSLY
- TURN THE DEVICE OFF WHEN NOT IN USE
- ALWAYS STORE THE NEURO TOUCH DEVICE IN COOL, DRY PLACE AND ONLY IN THE BOX PROVIDED
- YOSTRA LABS DOES NOT HOLD ANY RESPONSIBILITY FOR ANY INJURY TO THE PATIENTS CAUSED DUE TO THE USE/MISUSE OF THE DEVICE
- THE ONUS OF OBTAINING THE CONSENT OF THE PATIENT FOR THE DIAGNOSIS WITH NEURO TOUCH DEVICE AND THE STORAGE OF DATA LIES WITH THE HEALTH CARE PROVIDER
- THE INTERPRETATION OF THE DATA AND FURTHER TREATMENT PROVIDED BY THE HEALTHCARE PROVIDER IS THE RESPONSIBILITY OF THE HEALTH CARE PROVIDER
- DO NOT USE THE NEURO TOUCH DEVICE FOR ANY PURPOSE OTHER THAN INTENDED
- DISPOSE OF THE NEURO TOUCH DEVICE, COMPONENTS AND ACCESSORIES ACCORDING TO APPLICABLE LOCAL REGULATIONS. UNLAWFUL DISPOSAL MAY CAUSE ENVIRONMENTAL POLLUTION

CLINICAL PRECAUTIONS

- DO NOT USE THE NEURO TOUCH DEVICE ON THE INJURED FOOT OR THE FOOT UNDER MEDICAL TREATMENT
- ONLY USE THE NEURO TOUCH DEVICE ON THE FOOT WHEN THE SUBJECT IS IN SUPINE POSITION. DO NOT ATTEMPT TO SCREEN THE SUBJECT WHEN THE FOOT IS BEARING LOAD AND NOT IN FREE STATE
- DO NOT USE THE NEURO TOUCH DEVICE ON OR IN THE VICINITY OF THE OPEN WOUNDS
- STERILIZE THE PROBES ON THE NEURO TOUCH DEVICE WHICH COMES IN CONTACT WITH THE PATIENT SKIN AFTER EVERY USE WITH SURGICAL SPIRIT / ALCOHOL SWABS
- SINGLE USE CONSUMABLE SUCH AS MONOFILAMENTS SHOULD NOT BE REUSED AND SHOULD BE CHANGED BETWEEN EACH PATIENT

ABOUT YOISTRA LABS PVT. LTD.

Yostra Labs Private Limited is a healthcare technology firm pioneering smart innovations to make healthcare more effective, affordable, and sustainable for the cost-sensitive developing market. We are committed to solving pertinent healthcare issues through innovative, practical, and cutting-edge technology solutions.

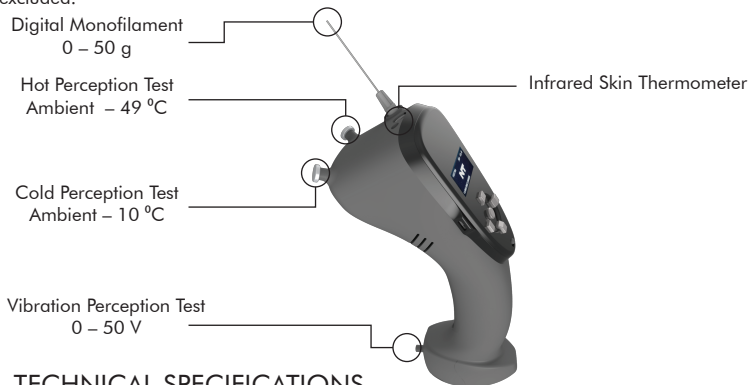
INTENDED USE

NEURO TOUCH™ is a point of care screening device for Peripheral Neuropathy. Perform the following tests using NEURO TOUCH™:

- Protective Sensation Test (Monofilament Test)
- Vibration Perception Test
- Hot and Cold Perception Test
- Infrared Skin Temperature Measurement

INDICATIONS FOR USE

NEURO TOUCH™ enables screening of diabetic patients for symptoms of Peripheral Neuropathy. Diabetic Peripheral Neuropathy (DPN) refers to symptoms and signs of neuropathy in a patient with diabetes in whom other causes of neuropathy have been excluded.



TECHNICAL SPECIFICATIONS

Digital Monofilament	0 g to 50 g
Vibration Perception Test	0 V to 50 V at 170 Hz
Hot Perception Test	Ambient temperature to 49 °C *
Cold Perception Test	Ambient temperature to 10 °C *
Infrared Skin Thermometer	1 °C to 50 °C
Battery	Approximately 8 hours
Local Memory	50 patients' data
Unit Dimensions	Length 220 mm, Width 59 mm, Height 97 mm
Weight	375 g
Power Source	Charging adapter with output of 5V 2A
Test Report	Bluetooth connectivity with smartphone. Web server based report

* Under standard clinical conditions. Temperature increases or decreases by 15 °C from current ambient

Device	Do not open the device Do not use the device in case of any malfunction Do not use the device if the device handle feels hot
Liquid Ingress	Ingress Protection Rating: IP22 Do not use the device in the vicinity of wet area Do not pour water, surgical spirit on any liquid on the device
Wound area	Do not use the device in the vicinity of wounds or vulnerable skin. Non-Invasive device
Hot thermal test	The hot thermal test probe will be at elevated temperatures (< 49 °C). Do not place the probe in contact with skin for a long duration of time.
Cold thermal test	The cold thermal test probe will be at lowered temperatures (> 0 °C). Do not place the probe in contact with skin for a long duration of time.
Battery	Use only the charger provided with the device Do not use the device if you find the battery is inflated Warranty of the battery is 12 months
Protective sensation test	The monofilaments used in protective sensation test must not be used beyond the intended use
User Instructions	Read this Manual before using the NEURO TOUCH™ Device. Clean Temperature & Vibration probes before and after use. Store the device in cool and dry place. Use the device under room temperature conditions.

WARNING: No modification of this equipment is allowed.
NEURO TOUCH™ is a Continuous operating mode device.

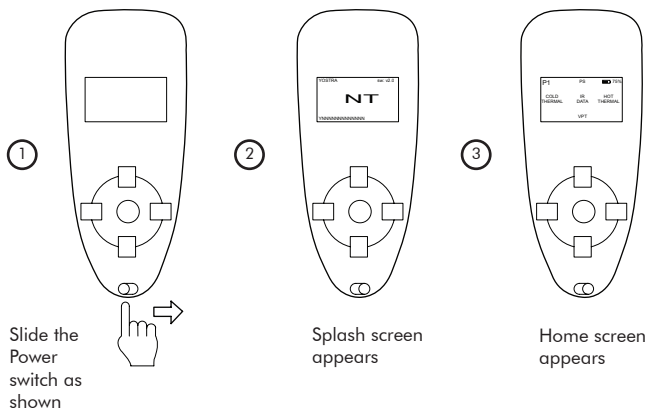
CAUTION: This device is intended to be used as a long term screening device. It is recommended to run additional tests to verify any signs of Neuropathy before beginning any treatment. This device is to only be used for protective sensation, temperature differential and vibration sensation screening.

Rx ONLY

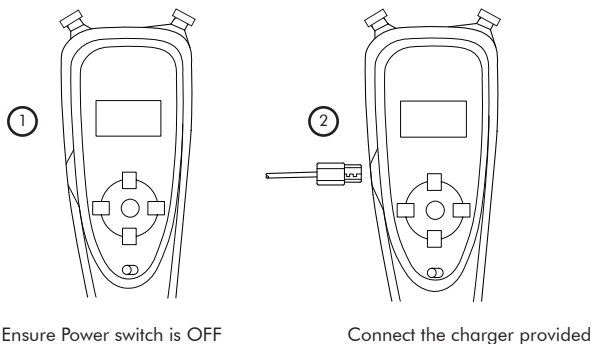
CAUTION: Federal law restricts this device to use by or on the order of a physician



POWER ON NEURO TOUCH™



CHARGE NEURO TOUCH™

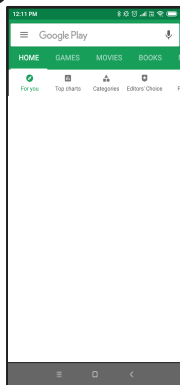


- * When using the first time, ensure NEURO TOUCH™ is fully charged (~ 8 hours)
- ** In case of low battery indication, charge NEURO TOUCH™ fully before use

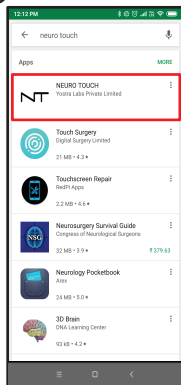


- * Only use the charger provided to charge NEURO TOUCH™
- ** DO NOT use NEURO TOUCH™ if you find battery is inflated
- *** Warranty for the batteries is 12 months

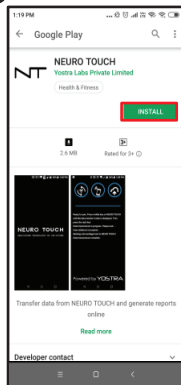
1



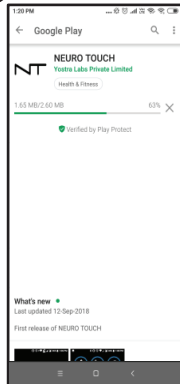
2



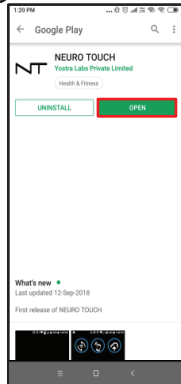
3



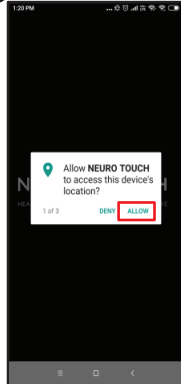
4



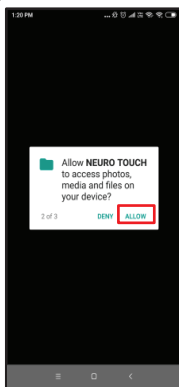
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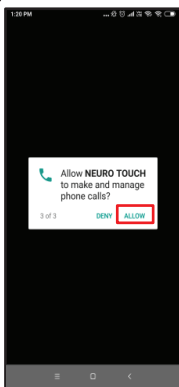
6



⑦



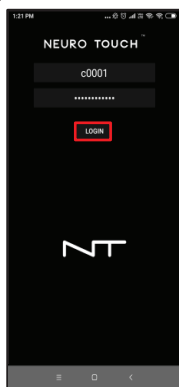
⑧



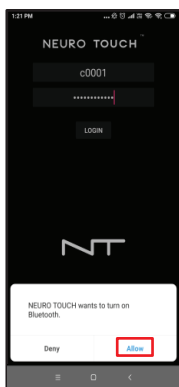
⑨



⑩



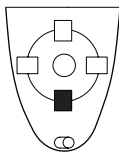
⑪



⑫

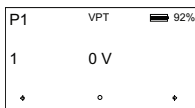


1



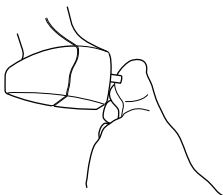
Press the bottom key

2



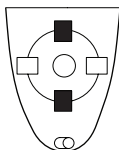
Selected test's screen appears

3



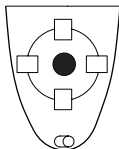
Gently touch the point on the subject's feet with the Vibration Probe

4



*Take constant feed back from the subject about the feel of Vibration and increase or decrease the vibration intensity accordingly.

5

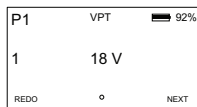


Press center key to record the value when the subject affirms

* Press top key to increase vibration intensity
or bottom key to decrease vibration intensity

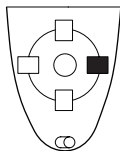
Long press moves values faster

6



Recorded value is shown

7



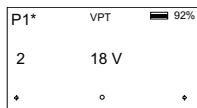
Press right key to continue to next test point

8



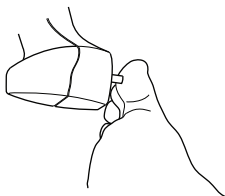
Confirmation message appears

9



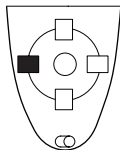
Next point of the test is shown

10



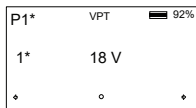
Follow steps 3 onwards to continue recording data at all points

11



After completing all points, long press left key to return to Home screen

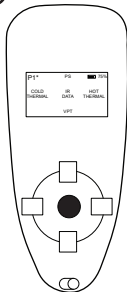
INDICATION OF SAVED DATA



* indicates data is saved

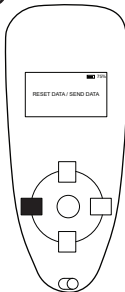
ERASE DATA

①



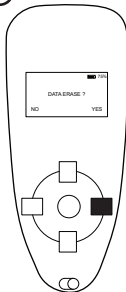
Long press on the
Home screen

②



Press to erase data

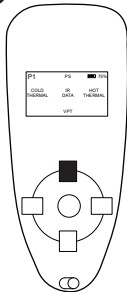
③



Press to confirm

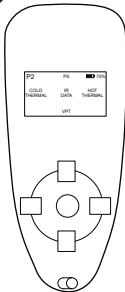
ACCESS NEXT PATIENT'S DATA

①



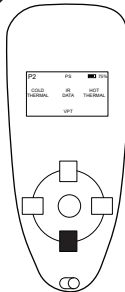
Long press on the
Home screen

②



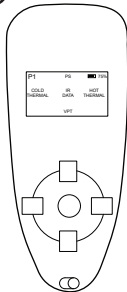
Perform test on
next patient

③



Long press on the
Home screen

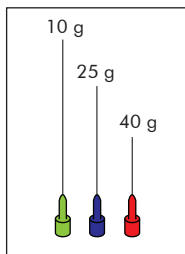
④



Perform test on
previous patient

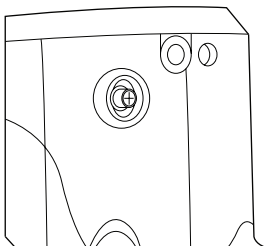
PROTECTIVE SENSATION TEST - ATTACH MONOFILAMENT ¹¹

①



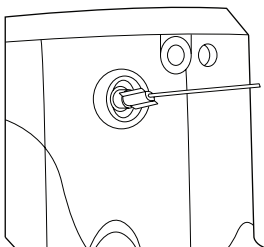
Select the required monofilament

②



Locate Monofilament base on the top

③



Place the monofilament into the 'Monofilament Base' and gently push till it tightly fits

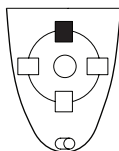


Place the monofilament and gently push



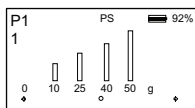
DO NOT twist the monofilament in the base

1



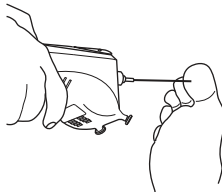
On the Home screen, press top key to select Protective Sensation Test

2



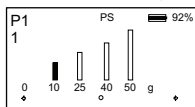
Selected test's screen appears

3



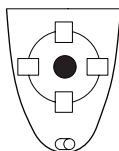
Gently press the monofilament against the subject's foot ensuring that the monofilament is at a right angle to the skin surface*

4



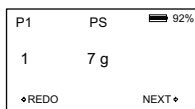
Force applied is displayed in terms of 10, 25, 40, and 50 grams and the bar representing the force applied lights up

5



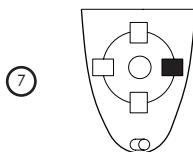
When the subject confirms the touch sensation, pull the device back and press the center key

6



Result in grams is shown

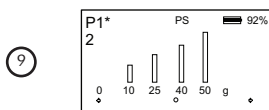
* If the subject doesn't feel sensation at 10 g (green colour) monofilament, use the 25 g (blue colour) filament. If the 25 g filament too cannot be sensed, use the 40 g (red colour) monofilament.



Press the right key to save value at current point



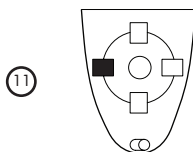
Confirmation message appears



Previous data is saved. Next point of the test is shown

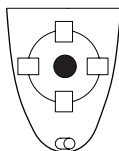


Follow steps 3 onwards to continue recording data at all points



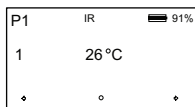
After completing all points, long press left key to return to Home screen

1



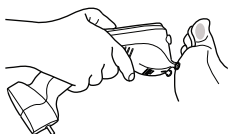
On the Home screen, press center key to select IR Thermometer Test

2



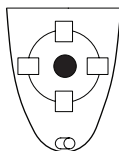
Selected test's screen appears

3



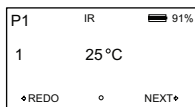
Hold the device less than 1.5 centimeter away from the subject's skin. LED light will focus with minimum radius of illumination

4



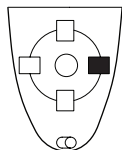
Press center key to freeze the value

5



Result is shown

6



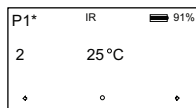
Press right key to save value at current point

7



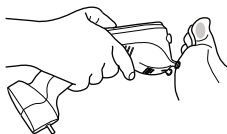
Confirmation message appears

8



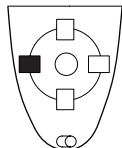
Previous data is saved. Next point of the test is shown

9



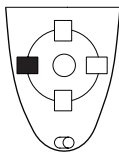
Follow steps 3 onwards to continue recording data at all points

10



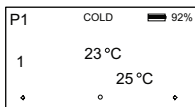
After completing all points, long press left key to return to Home screen

①



On the Home screen, press to left key to select Cold Perception Test

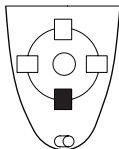
②



Selected test's screen appears

Set temperature (25 C in image)
Probe temperature - Actual (23 C in img)

③

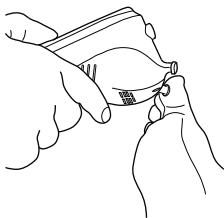


Set the temperature using the bottom key to decrease the temperature in steps of 1 or 2 degrees.

* Press top button to increase temperature & bottom button to decrease temperature

Long press moves values faster

④

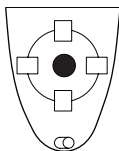


Gently touch the point on the subject's foot with the Cold probe so that the flat surface of the probe touches the skin

⑤

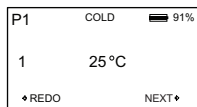
Take constant feedback from the subject about the feel of temperature and increase/decrease temperature accordingly.
Always wait for the probe temperature to reach the desired set temperature.

⑥



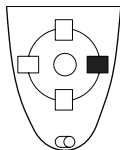
Press center key to freeze the value when subject confirms

7



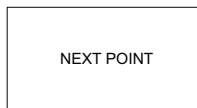
Result is shown

8



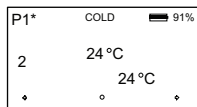
Press right key to continue to next test point

9



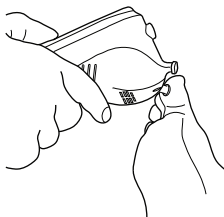
Confirmation message appears

10



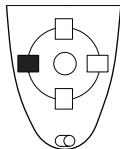
Next point of the test is shown

11



Follow steps 2 onwards to continue recording data at all points

12



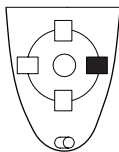
After completing all points, long press left key to return to Home screen



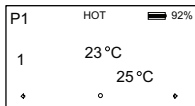
WARNING: DO NOT TOUCH THE SURFACE OF THE HOT PROBE

On the Home screen, press right key to select Hot Perception Test

1



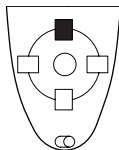
2



Selected test's screen appears

Probe temperature - Actual (23 C in img)
Set temperature (25 C in image)

3

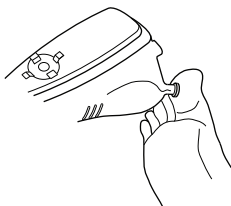


Set the temperature using the top key to increase the temperature in steps of 1 or 2 degrees.

* Press top button to increase temperature & bottom button to decrease temperature

Long press moves values faster

4

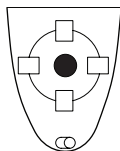


Gently touch the point on the subject's foot with the Hot probe so that the flat surface of the probe touches the skin

5

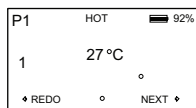
Take constant feedback from the subject about the feel of temperature and increase/decrease hotness accordingly.
Always wait for the probe temperature to reach the desired set temperature.

6



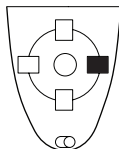
Press center key to freeze the value when subject confirms

⑥



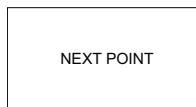
Result is shown.

⑦



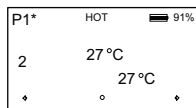
Press right key to save value at current point

⑧



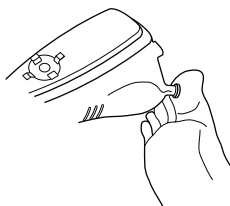
Confirmation message appears

⑨



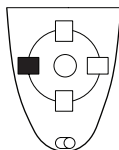
Next point of the test is shown

⑩

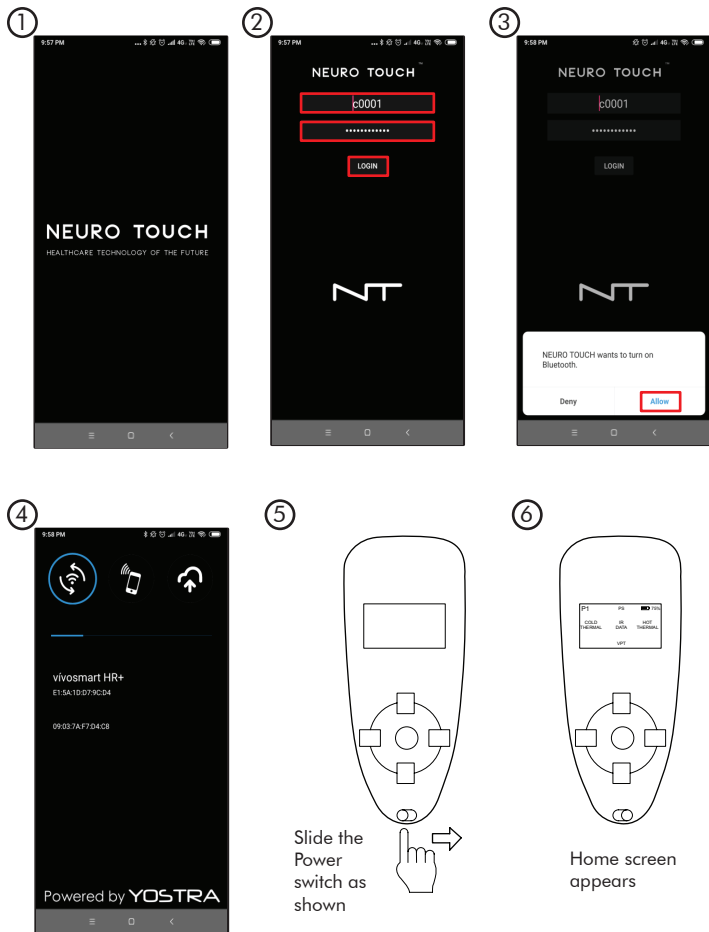


Follow steps 2 onwards to continue recording data at all points

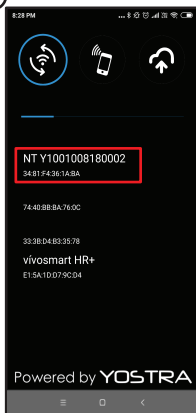
⑪



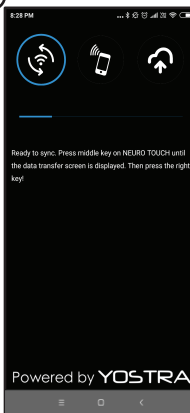
After completing all points, long press left key to return to Home screen



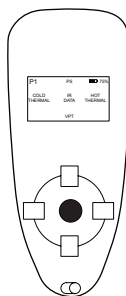
7



8

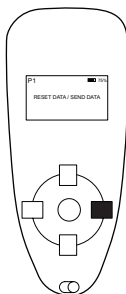


9



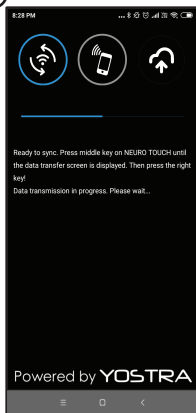
Long press

10

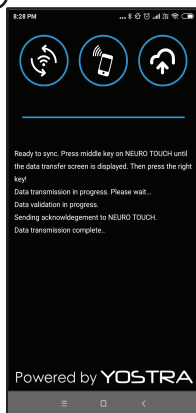


Press to send data

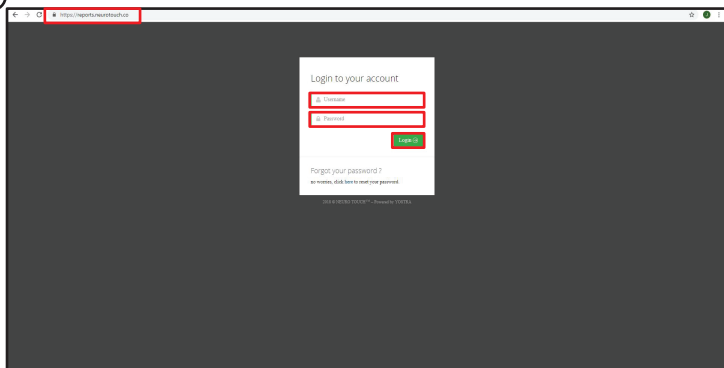
11



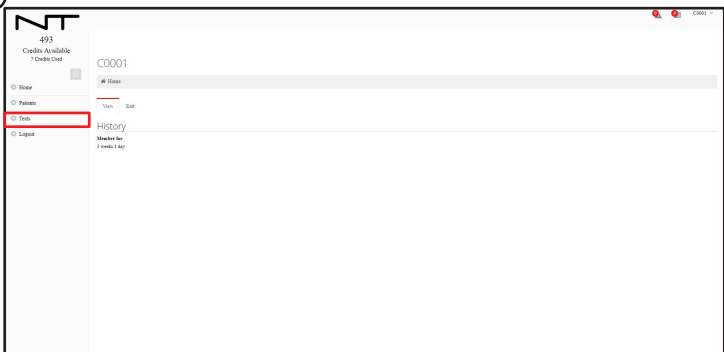
12



1



2



3

NT
493
Credits Available
7 Credits Used

Home
Patients
Tests
Logout

Tests

Filter

Test ID Patient Name UHID NT Device ID Report Status

Test ID Report Date NT Device ID Serial No. UHID Patient Consulting Doctor Report Status Edit

10	03 Oct 2018 14:09	T100300200006	1			Report Not Generated	Edit	
13	18 Sep 2018 18:06	SpacibG	3	P5436	Test Patient - P5436	Dr. Saugy Sharma	Report Generated	Edit
12	17 Sep 2018 09:27	SpacibG	3	P543	Test Patient 2 - P543	Dr. Saugy Sharma	Report Generated	Edit
11	16 Sep 2018 15:03	T100300400010	3	DC0001	Diess Patient - DC0001	Dr. Saugy Sharma	Report Generated	Edit
7	15 Sep 2018 15:24	SpacibG	3	DC0001	Diess Patient - DC0001	Dr. Saugy Sharma	Report Generated	Edit
3	13 Sep 2018 17:13	SpacibG	3	DC0001	Diess Patient - DC0001	Dr. Saugy Sharma	Report Generated	Edit
2	12 Sep 2018 16:49	T100300200006	1	Y05486	Test Patient - Y05486	Dr. Saugy Sharma	Report Generated	Edit
1	12 Sep 2018 13:29	T100300200006	1	3A21680C106	Scand - 3A21680C106	Dr. Saugy Sharma	Report Generated	Edit

4

NT
493
Credits Available
7 Credits Used

Home
Patients
Tests
Logout

Home

Consult Doctor *

Select Consulting Doctor

Select

☒ Add New Patient
☐ Existing Patient

Title *

Select Title

Name *

Patient Name

UHID *

UHID

Age *

Age

Date of Birth

Date of Birth

E.g., 03-Oct-2018

Gender *

☐ F ☐ M

Mobile

Mobile

Email

Email ID

Submit

Provide information in case of new patient

NT
493
Credits Available
7 Credits Used

Home
Patients
Tests
Logout

Home

Consult Doctor *

Select Consulting Doctor

Select

☐ Add New Patient
☒ Existing Patient

Patient

search patient

Submit

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Provide information in case of existing patient

5

75
Credits Available
125 Credits Used

Home
Patients
Tests
Logout


Do you want to perform foot examination?
Home
Data saved.
This action cannot be undone.
Confirm

6

75
Credits Available
125 Credits Used

Home
Patients
Tests
Logout

Add Foot Examination
Home
Patient: shaker
USID: shaker
Does the patient have the following signs/conditions?

	Right Foot	Left Foot	
Corns or callus	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=1009017-cvsnv
Blisters	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=1007813-cvsnv
Fungal infection	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=1001484-cvsnv
Pain at rest	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not applicable	

7

75
Credits Available
125 Credits Used

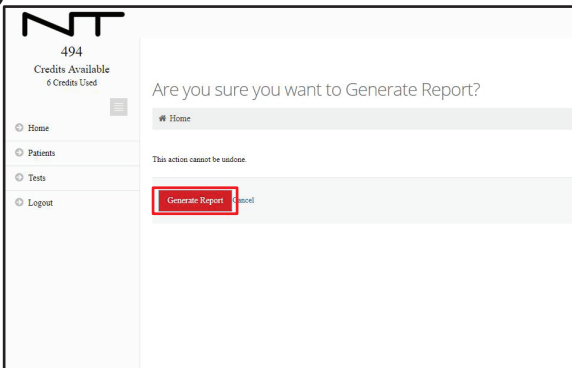
Home
Patients
Tests
Logout

Donaldis Patis pain	Rate <input type="text"/> Volume <input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	Rate <input type="text"/> Volume <input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=87tjBqLGA https://www.youtube.com/watch?v=882Qxw0EagA
Tinales Patis pain	Rate <input type="text"/> Volume <input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	Rate <input type="text"/> Volume <input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=882Qxw0EagA
Capillary Micro-circulation	<input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	<input type="radio"/> Normal <input type="radio"/> Diminished <input type="radio"/> Not applicable	
Arterial reflexes	<input type="radio"/> Positive <input type="radio"/> Negative <input type="radio"/> Not applicable	<input type="radio"/> Positive <input type="radio"/> Negative <input type="radio"/> Not applicable	https://www.youtube.com/watch?v=DDW7ELtE2s
Healed action	<input type="radio"/> Normal <input type="radio"/> Abnormal <input type="radio"/> Not applicable	<input type="radio"/> Normal <input type="radio"/> Abnormal <input type="radio"/> Not applicable	
Footwear	<input type="radio"/> Bare foot walking <input type="radio"/> Inappropriate or damaged foot wear <input type="radio"/> Appropriate foot wear <input type="radio"/> Not applicable	<input type="radio"/> Bare foot walking <input type="radio"/> Inappropriate or damaged foot wear <input type="radio"/> Appropriate foot wear <input type="radio"/> Not applicable	

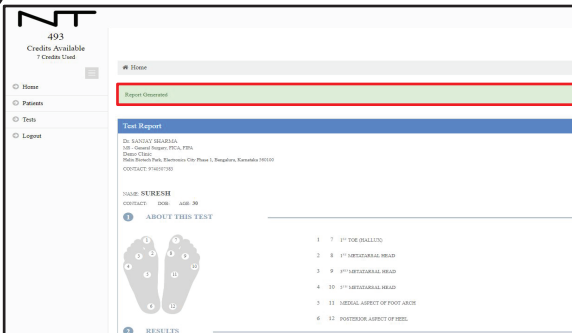
Submit

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8



9



10

Address: General Guidelines for Management of Diabetes Foot and Edema, Evidence Free Society of India

RESULTS DETAILED

MONITORING		VIBRATION PERCEPTION		HOT PERCEPTION		COLD PERCEPTION		TEMPERATURE	
Sensory neuropathy score by Semmes Weinstein monofilament (10g, 15g or 30g)		Vibrotactile (V) score at 10 Hz in the following measurements		Heat (H) perception test in the following measurements		Cold (C) perception test in the following measurements		Current room temperature (°C) - Right/Lefthand - patient	
R	L	R	L	R	L	R	L	R	L
1	7	10	7	12	14	20	27	28	31
2	8	10	8	12	14	24	28	27	31
3	9	9	9	12	15	26	27	29	31
4	10	8	9	20	18	20	26	29	31
5	11	7	7	13	13	20	24	29	31
6	12	10	10	20	20	20	24	27	31

4 NOTES

5 FURTHER INVESTIGATIONS

☒ FOOT SCAN (PLANTAR PRESSURE SCAN)

☐ VASCULAR ASSESSMENT

☐ FOOT RHEOLOGICAL ASSESSMENT

Dr. SANKAR DEBARMITA
MS - GENERAL SURGERY, PGCA, PCCA

Download as PDF Send the Report

11

493
Credits Available
1 Credits Used

Tests

Home

State Patients Legend

Test UID Patient Name UID NT Device ID Report Status

Apply Report

Test ID	Report Date	NT Device ID	Serial No.	UID	Patient	Consulting Doctor	Report Status	Edit
29	01 Oct 2018 10:09	V1000002000006	1				Report Not Generated	Edit
15	08 Sep 2018 10:06	Spindel02	1	P1616	Tania - P1616	Dr. Sankar Debarmita	Report Generated	Edit
12	17 Sep 2018 09:27	Spindel02	1	P161	Test Patient 1 - P161	Dr. Sankar Debarmita	Report Generated	Edit
11	08 Sep 2018 11:03	V1000004000018	1	DO0001	Dinesh Patient - DO0001	Dr. Sankar Debarmita	Report Generated	Edit
7	15 Sep 2018 11:54	Spindel02	1	DO0001	Dinesh Patient - DO0001	Dr. Sankar Debarmita	Report Generated	Edit
3	15 Sep 2018 11:13	Spindel02	1	DO0001	Dinesh Patient - DO0001	Dr. Sankar Debarmita	Report Generated	Edit
2	12 Sep 2018 10:49	V1000002000006	1	V00486	Test Patient - V00486	Dr. Sankar Debarmita	Report Generated	Edit
1	12 Sep 2018 11:29	V1000002000006	1	14251680516	Sandeep - 14251680516	Dr. Sankar Debarmita	Report Generated	Edit

12

493

Credit Available

7 Credits Used

Home

Patients

Tests

Logout

4 33 17 LATERAL/ULNAR ASPECT

5 31 LATERAL ASPECT OF FOOT ARCH

6 37 DORSAL ASPECT OF FOOT

One or more observed test results exceed expected level of precision or variation and the patient should undergo the measurement at the requested time point in 30 days. To view the expected test values, consult the test report page for that test and look for the note, Minimum, range of difference in change in value or temperature of the data.

Test Point		MONITORING		VIBRATION PERCEPTION		HOT PERCEPTION		COLD PERCEPTION		TEMPERATURE	
R	L	Right Foot	Left Foot	Right Foot	Left Foot	Right Foot	Left Foot	Right Foot	Left Foot	Right Foot	Left Foot
1	7	33	7	15	14	35	37	28	28	30	30
2	8	33	8	15	14	34	38	29	27	31	30
3	9	9	9	15	15	30	37	28	28	30	30
4	10	8	9	20	18	35	39	30	29	31	31
5	11	5	7	13	13	35	34	29	29	31	30
6	12	10	10	20	20	35	34	27	27	31	31

Notes

Further Investigation:
2. FOOT SCAN-PLANTAR PREDICTE SCAN
VASCULAR ASSESSMENT
FOOT BONE/SCANDAL ASSESSMENT

Submit

13

493

Credit Available

7 Credits Used

Home

Patients

Tests

Logout

Tests

Home

• Add

Test CID

Patient Name

UHD

NT Device ID

Report Status

- Add -

Apply

Reset

Test ID	Report Date	NT Device ID	Serial No.	UHD	Patient	Consulting Doctor	Report Status	Edit
33	10 Oct 2018 14:09	Y1000002300006	1				Report Not Completed	Edit
33	18 Sep 2018 10:08	SpeediC2	1	P5436	Tamir - P5436	Dr. Tanjaj Shama	Report Completed	Edit
32	17 Sep 2018 09:27	SpeediC2	1	P543	Test Patient 2 - P543	Dr. Tanjaj Shama	Report Completed	Edit
31	18 Sep 2018 11:05	Y1000004000030	1	DC3001	Dress Patient - DC3001	Dr. Tanjaj Shama	Report Completed	Edit
7	13 Sep 2018 15:54	SpeediC2	1	DC3001	Dress Patient - DC3001	Dr. Tanjaj Shama	Report Completed	Edit
3	13 Sep 2018 17:13	SpeediC2	1	DC3001	Dress Patient - DC3001	Dr. Tanjaj Shama	Report Completed	Edit
2	12 Sep 2018 16:48	Y1000002300006	1	Y05428	Test Patient - Y05428	Dr. Tanjaj Shama	Report Completed	Edit
1	12 Sep 2018 15:59	Y1000002300006	1	14210495136	Ismael - 14210495136	Dr. Tanjaj Shama	Report Completed	Edit

14

[illegible]

SEARCH REPORT

493

Credits Available

7 Credits Used

Home

Patients

Info

Logout

Tests

State

+

Add

Test ID

Patient Name

UHD

NT Device ID

Report Status

- Add -

Apply

Reset

Test ID	Report Date	NT Device ID	Serial No.	UHD	Printer	Cooking Doctor	Report Status	Edit
29	03 Oct 2018 14:09	Y30030C20000	1				Report Not Occurred	Edit
15	18 Sep 2018 19:06	Spw6a2C	1	P2419	Texas - P2419	Dr. Sangeeta Sharma	Report Occurred	Edit
12	17 Sep 2018 09:27	Spw6a2C	1	P2421	Swi Patient 2 - P2421	Dr. Sangeeta Sharma	Report Occurred	Edit
11	16 Sep 2018 13:03	Y30030A00018	1	DC0001	Demon Patient - DC0001	Dr. Sangeeta Sharma	Report Occurred	Edit
7	13 Sep 2018 13:14	Spw6a2C	1	DC0001	Demon Patient - DC0001	Dr. Sangeeta Sharma	Report Occurred	Edit
3	13 Sep 2018 17:13	Spw6a2C	1	DC0001	Demon Patient - DC0001	Dr. Sangeeta Sharma	Report Occurred	Edit
2	12 Sep 2018 16:48	Y30030C20000	1	Y00436	Swi Patient - Y00436	Dr. Sangeeta Sharma	Report Occurred	Edit
1	12 Sep 2018 15:19	Y30030C20000	1	14251490214	Bumedi - 14251490214	Dr. Sangeeta Sharma	Report Occurred	Edit

STORAGE AND TRANSPORT

- Store in a cool & dry place. Recommended conditions are ambient temperature of 20 °C to 30 °C at a humidity of 50% to 85% RH
- Handle with care. Do not subject the device to shock and extreme vibrations and temperature
- Use packing box provided by Yostra Labs for transportation. Ideal recommended transport conditions are temperature of 10 °C to 50 °C at a humidity of 50% to 85% RH

RECOMMENDED ACCESSORIES

1. Graduated Monofilament of 10 g, 25 g, and 40 g provided by Yostra labs
2. Charging Adapter: OUTPUT: 5 V, 2 A, 10 W; INPUT: 110-240 V, 0.3 A, 50-60 Hz

CLEANING PROCEDURE

- Wipe the probes that comes in contact with subjects's skin with surgical spirit/alcohol before and after use
- Use a soft damp cloth or sponge to clean the exterior of the unit
- Do not use abrasive cleaners or strong solvents to clean the device
- If the NEURO TOUCH™ device becomes contaminated by body fluids, it should be cleaned using a hospital grade disinfectant and a disposable soft cloth or paper towel as per the standard hospital or office protocol

MAINTENANCE PROCEDURE

- NEURO TOUCH™ is not intended to be serviced by the user. Only a trained service personnel authorized by Yostra Labs can perform the maintenance of the device
- Yostra Labs will make available on request, the circuit diagrams, component part lists, descriptions, calibration instructions, or other information that will assist SERVICE PERSONNEL to repair if the equipment is serviceable
- Contact Yostra support immediately for any malfunction or requirement of servicing
- Contact Yostra Labs support team for the yearly maintenance

PROCEDURE FOR DISPOSAL

- Dispose the NEURO TOUCH™ device, components and accessories according to applicable local regulations. Unlawful disposal may cause environmental pollution
- Alternatively, Return the device to below mentioned address at the end of life to discard

Yostra Labs Private Limited, #31, Ground floor, 3rd Cross, Venkat Reddy Layout, 80 Feet Road, Koramangala 6th Block, Bangalore 560095 Karnataka, India.

TROUBLESHOOTING

Display	Description	Possible cause	Solution
Error 1	Hardware Error in IR Thermometer function	No communication on I2C lines	Contact Support
Error 2	Hardware Error in Battery Gas Gauge IC	No communication on I2C lines	Contact Support
Error 3	Hardware Error in Hot and Cold Perception Test	Over temperature or incorrect temperature values	If hot probe over heats or cold probe over cools, wait for the probes to return to ambient temperature; then use the device. If error still persists, Contact Support.
Low Battery	Battery output not sufficient to function	Battery below 25% charge	Recharge the device to 100% (until charging indicator LED switches off)
Off Mode	Battery output not sufficient to function	Battery drained out	Recharge the device to 100% (until charging indicator LED switches off)
Charging LED Indicator	Charging LED Indicator is off	Battery drained out or charging LED Indicator is defective	Connect device to charger. If the charging LED indicator is still off, switch ON the device. If the display indicates battery status or Low Battery, Contact Support.
Display	Display is defective	Battery drained out or display is not working	Recharge the device to 100% (until charging indicator LED switches off). If the device does not switch ON, Contact Support.
IR LED Pointer	IR LED Pointer is Off in IR Skin temperature test	IR LED Pointer is defective	Contact Support
Protective Sensation Test	PS test is not recording any value	Blockage around monofilament base or error in monofilament hardware	Check and clear any blockage around the monofilament holder. If the problem still persists, Contact Support.
VPT	Vibration not sensed at the tip of the vibration probe or unusual sound generated by the device during the VPT	Defective VPT module	Contact Support.
Charging	Device not charging	Defective charger, or batteries	Contact Support.
Device getting warm	Device getting warm during charging or during use	Defective charger, or batteries	Contact Support.
-	Unexpected Data Quality	Obstructions between Probes and Patient Skin	Clear the obstructions.

GLOSSARY

DPN	–	Diabetic Peripheral Neuropathy
V	–	Volt
g	–	Gram
PS	–	Protective Sensation
VPT	–	Vibration Perception Test
°C	–	Degree Centigrade
USB	–	Universal Serial Bus
IR	–	Infra Red
IP	–	Ingress Protection

EU Declaration of Conformity (DoC)

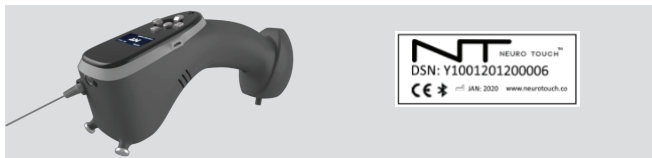
We

Company name: Yostra Labs Private Limited
 Postal address: No. 200 2nd Cross 1st Block Koramangala
 Postcode: 560034
 City: Bangalore
 Telephone number: +91 91083 58538
 E-Mail address: neurotouch@yostra.com

declare that the DoC is issued under our sole responsibility and belongs to the following product.

Apparatus model/Product: NEURO TOUCH™
 Type: Screening Device
 Serial number: Y10 series

Object of the declaration:



The object of the declaration described above is in conformity with the relevant Union Harmonization legislation:

Medical Device Directive (MDD) 93/42/EEC

The following harmonized standards and technical specifications have been applied:

Title, Date of standard/specification:

Safety	IEC 60601-1: Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
Quality	ISO 13485:2016 Medical devices - Quality management systems Requirements for regulatory purposes
Risk	ISO 14971:2015 Medical devices - Application of risk management to medical devices
EMC	IEC 60601-1-2:2014 Medical Electrical Equipment - Part 1-2: General Requirements for Basic Safety and Essential Performance - Collateral Standard: Electromagnetic Disturbances - Requirements and Tests

Signed for and on behalf of:

Bangalore
 Place of issue
 2019-12-21
 Date of issue
 Vinayaka P Nandalike, CEO
 Name, function, signature

(Handwritten signature)

**R**

①

②

③

④

⑤

⑥

L⑦ 1ST TOE (HALLUX)⑧ 1ST METATARSAL HEAD⑨ 3RD METATARSAL HEAD⑩ 5TH METATARSAL HEAD

⑪ MEDIAL ASPECT OF FOOT ARCH

⑫ POSTERIOR ASPECT OF HEEL

Use NEURO TOUCH™ to perform the Peripheral Neuropathy tests at 12 test points on the feet, and to generate an online test report. Ensure that you perform each test in the same sequence as given here.

Thank You for placing your trust in NEURO TOUCH™

Kindly fill the below details to secure your limited warranty of 12 months for the device.

Date of Purchase: _____

Name of purchaser: _____

Contact No.: _____

Serial No.(DSN): _____

Authorized partner stamp

Terms & Conditions of Warranty

1. The terms apply to Limited Warranty from Yostra Labs Pvt. Ltd. for NEURO TOUCH purchased directly or from authorised partner(s) of Yostra Labs and it is (a) endorsed with company stamp; and (b) not defaced or altered.
2. The limited warranty is for 12 months from the date of purchase or 1500 tests by the device, whichever is earlier and is valid only in India.
3. This Warranty does not cover the accessories such as charges, monofilaments, eyepatch, carry case etc. supplied as such by Yostra Labs along with NEURO TOUCH device
4. The original warranty card and purchase receipt must be presented while requesting the limited warranty services.
5. The warranty covers defects in material and workmanship encountered under normal use only. The defective devices will be replaced (with comparable or refurbished devices or parts) as determined by Yostra Labs Private Limited's at its sole discretion.
6. Loss or damage to the device are not covered arising from or in connection with (i) abuse, tampering modification or disassembling other than Yostra Labs authorized personnel (ii) negligent use and/or misuse (including improper storage and failure to follow the recommended precautions and operating instructions) (iii) defective and non standards consumable items (iv) using charger other than the prescribed specifications (v) accidental damage
7. Only Yostra Labs or service personnel authorized by Yostra Labs are allowed to open the device which otherwise will void this warranty
8. This warranty applies to the original purchaser only and is not transferable.
9. Customers are required to register the device serial number of the device with Yostra Labs after purchase for the warranty to be valid by contacting the customer support via email or telephone.
10. Yostra Labs provides a limited warranty of 6 months on the internal battery or 500 charge cycles, whichever is earlier. At Yostra Lab's sole discretion, on need basis, after thorough examination, battery will be replaced for the device in the warranty period if found to be underperforming.
11. Warranty does not cover misuse of the device such as using the device for the purposes other than intended and affixing the equipment to any nonstandard accessory attachment
12. This warranty does not cover any equipment on which the serial number sticker has been removed, modified, or made illegible.
13. Yostra reserves the right to withhold approval of a warranty claim pending visual inspection of the alleged defect.
14. Warranty on NEURO TOUCH device can be extended by additional 12 months by availing AMC/CMC plans. For more information contact Yostra Labs



YOSTRA

An ISO 13485 Certified Company



Handle with care



Read user manual before use



Do not discard device



Fragile



Temperature limit



Do not dispose device in fire



Store in dry place



IP22 Ingress Protection



CE marking



Caution! Hot surface



Lithium-ion batteries



Bluetooth

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