

ResMed

nox medical

How to use your Nox T3™

Noxturnal version 5.1



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Nox T3 system

Accessories



Abdomen cable



USB cable



Noxturnal software CD



Carrying case



Opening tool

Devices



Nox T3



Nonin 3150 Oximeter and SpO₂ sensor size M

Consumables



Nasal cannula with filter x2

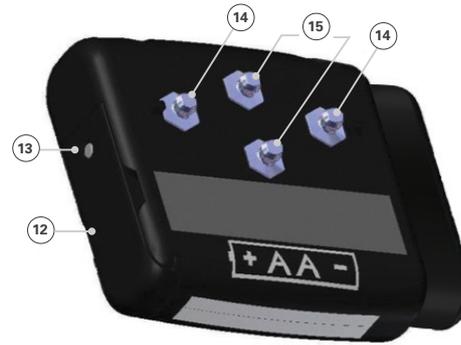


Disposable RIP belts size M x2



Battery 1.5V AA x2
Battery 1.5V AAA x4

Nox T3 system



NUMBER FUNCTION

- 1** Display
- 2** Push button - Turn on the device
- 3** Push button - Forward
- 4** Push button - Backward
- 5** Pressure lock - Connects to external nasal cannula/
mask pressure tube
- 6** Bipolar input - Channel 1
- 7** Bipolar input - Channel 2
- 8** Reference ground input for channels 1 and 2
- 9** Microphone - Records respiratory sounds

- 10** Clip strap loops
- 11** Device status indicator light
- 12** Battery lid - Covers the battery and the USB
connector
- 13** Battery lid pin - Keeps battery compartment closed
- 14** Metal snaps - Connect to thorax RIP belt
- 15** Metal snaps - Connect to abdomen cable

Configure a recording

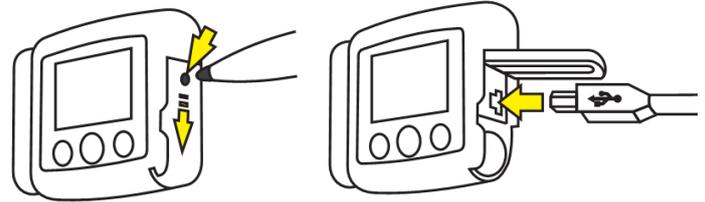


Configure a recording

• Connect the Nox T3

Open Noxturnal software on your computer.

Open the battery lid of the Nox T3 using the opening tool provided and connect the device to the USB port of the computer.



In Noxturnal software, click on **Recording > Configure device** to open the configuration wizard.

Configure a recording

• Step 1: Select a recording type

Choose a suitable recording type from the drop-down list.

Nox T3 Configuration

Recording Type

1 2 3
Recording Type Schedule Recording Patient Information

Recording Type:
Diagnostic PG

Other Devices:
Nonin 3150 Oximeter
PIN: 531519

Next > Finish Cancel

Enter the PIN number shown on the back of your oximeter.



Click on **Next** to continue.

Configure a recording

• Step 2: Schedule recording

“Start Recording At” option is recommended.

1 Number of Nights: 1

2 Start Time: 10:00:00 PM

3 Date: March, 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		27	28	29	30	31
2	3	4	5	6	7	8

Today: 3/27/2017

4 Duration:

7 Hours, 8 Hours, 10 Hours, Hours, Unspecified

< Previous Next > Finish Cancel

Select

- 1 The number of nights
- 2 The start time
- 3 The date
- 4 The duration

Click on **Next** to continue.

Configure a recording

• Step 3: Enter patient information

Add information on the patient's identity and physical characteristics.

The screenshot shows the 'Nox T3 Configuration' window with the 'Patient Information' tab selected. The window has three numbered steps: 1 (Recording Type), 2 (Schedule Recording), and 3 (Patient Information). The 'Patient Information' section includes the following fields:

- Name:** First: John, Last: Smith, ID: (empty)
- Gender:** Male (selected), Female, N/A
- Date of Birth:** 19/02/1960
- Body Metrics:** Height: 180 cm, Weight: 84 kg, BMI: 25,9
- Tags:** Diagnostic PG (with a note: use ';' to separate multiple tags)
- Notes:** ESS score 7

At the bottom, there are buttons for '< Previous', 'Finish', and 'Cancel'.

Add at least patient's **First and Last names** or patient **ID** before finishing.

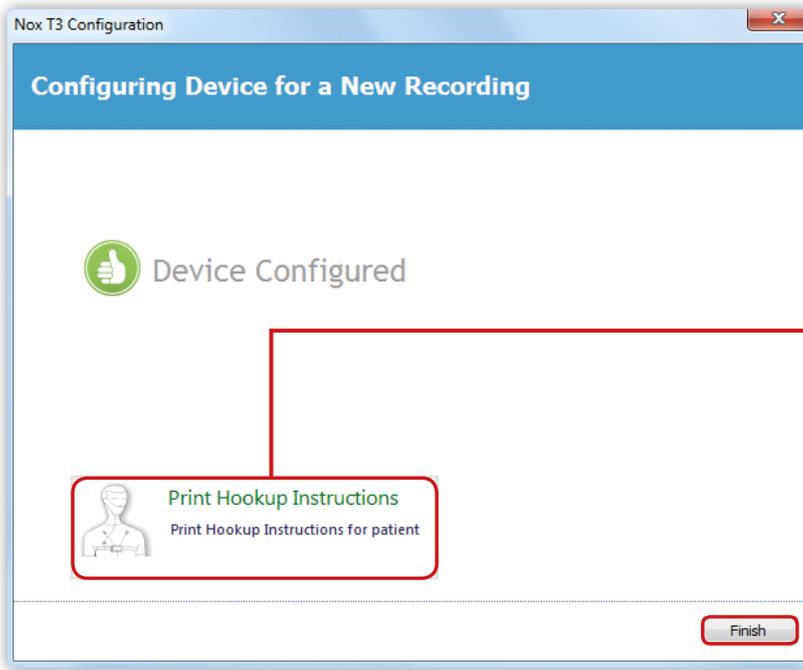
The **Tags** fields can be used to link keywords to the patient in order to easily find him later in the recordings library.

Use the **Edit...** button to enter more detailed information about your patient before the hookup.

Click on **Finish**.

Configure a recording

- End configuration



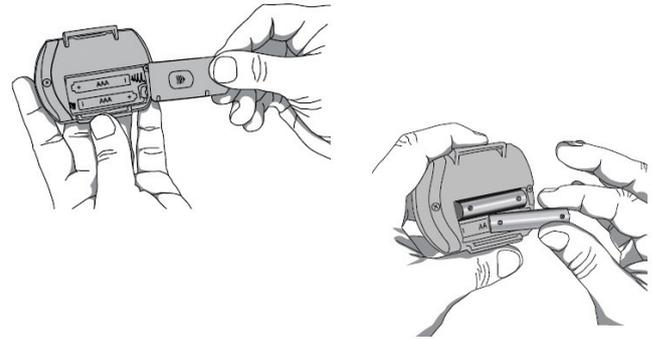
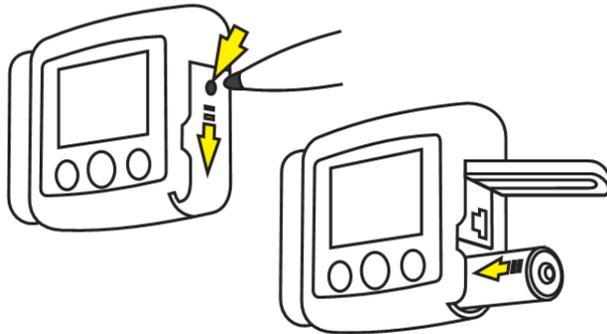
Click here to print hookup instructions for patient.

Click on **Finish** to close this window and disconnect the device.

Configure a recording

• Insert batteries

Insert **new batteries** or **fully recharged** NiMh batteries into the Nox T3 device and the oximeter.



For the Nox T3 device: 1 AA battery

- Alkaline batteries last for up to 16h of recording. It is recommended to change them **after each** recording.
- If you are using rechargeable batteries, **recharge them** before every recording.
- The rechargeable battery should have a capacity of **2500mAh or more**. It is recommended to replace it every year.

For the Nonin 3150 oximeter: 2 AAA batteries

- Alkaline batteries last for up to 48h. It is recommended to replace them **every 2 or 3** recordings.
- If you are using rechargeable batteries, **recharge them** before every recording.
- The rechargeable batteries should have a capacity of **900mAh or more**.

Configure a recording

• Pair the oximeter

Follow these steps after every configuration and **before** patient hook-up.

Note: Only press the grey activation button on the oximeter if a ResMed representative asks you to or if the Bluetooth icon fails to appear on the screen of the oximeter.



Step 1 - Turn on the oximeter

After having inserted new or fully charged batteries, **insert your finger into the probe** to turn on the oximeter.

Note: the oximeter has to be left without batteries for at least 30 seconds to erase any previous configuration.

Step 2 - Turn on the Nox T3

After inserting a new or fully charged battery, **press the central button on the Nox T3** to turn on the device.

Step 3 - Look for the checkmark

Press the right arrow on the Nox T3 once to access the menu.

Wait for the checkmark to appear.

If an X-mark appears on the screen of the Nox T3, remove the batteries from the oximeter for at least 30 secs and resume the pairing process from step 1.

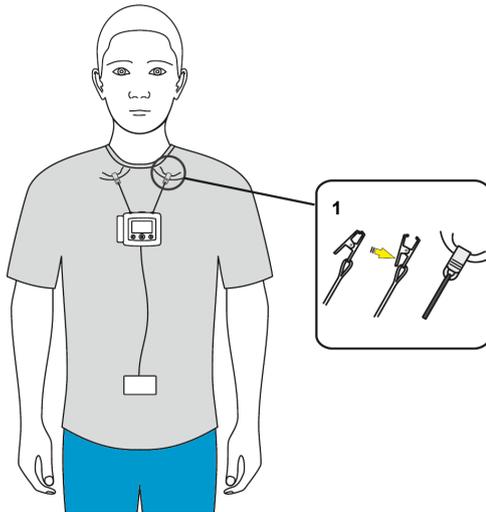
Patient hook-up



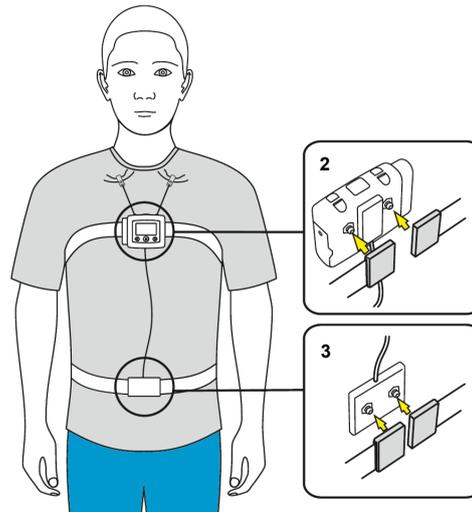
Patient hook-up

Video instructions on Nox T3 hook-up can also be found on [ResMed.com/NoxT3hookup](https://www.resmed.com/NoxT3hookup)

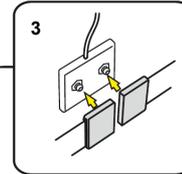
• Attach the device and the belts



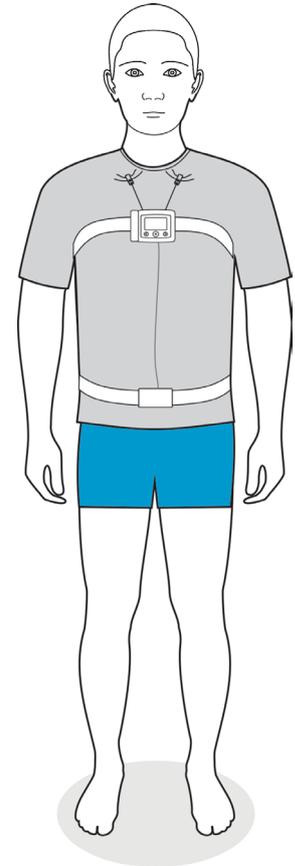
1 - Clip the abdomen cable to the back of the device and snap the clips onto the patient's pyjamas.



2 - Wrap the RIP belt around the patient's thorax and snap it at the back of the device.

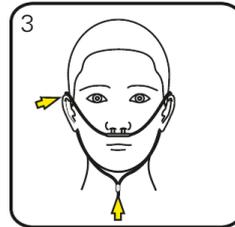
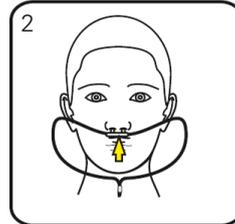
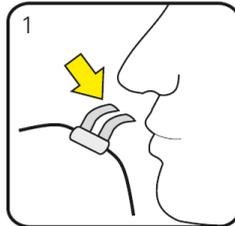
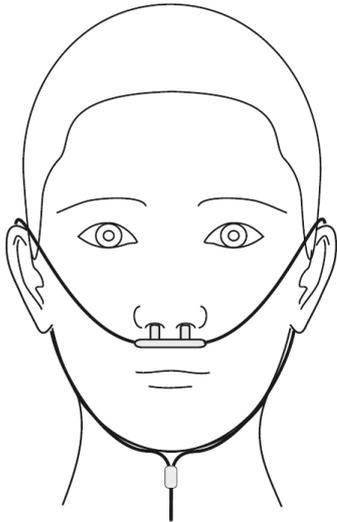


3 - Repeat this for the abdomen belt and snap it to the cable.



Patient hook-up

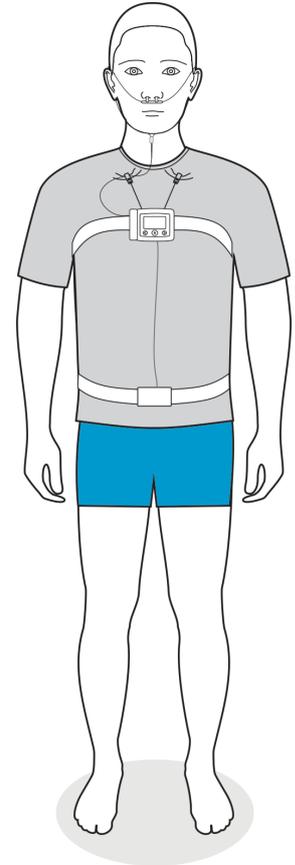
- **Attach the nasal cannula**



1 - Gently place the nasal cannula into the nostrils with the nasal prongs facing inwards.

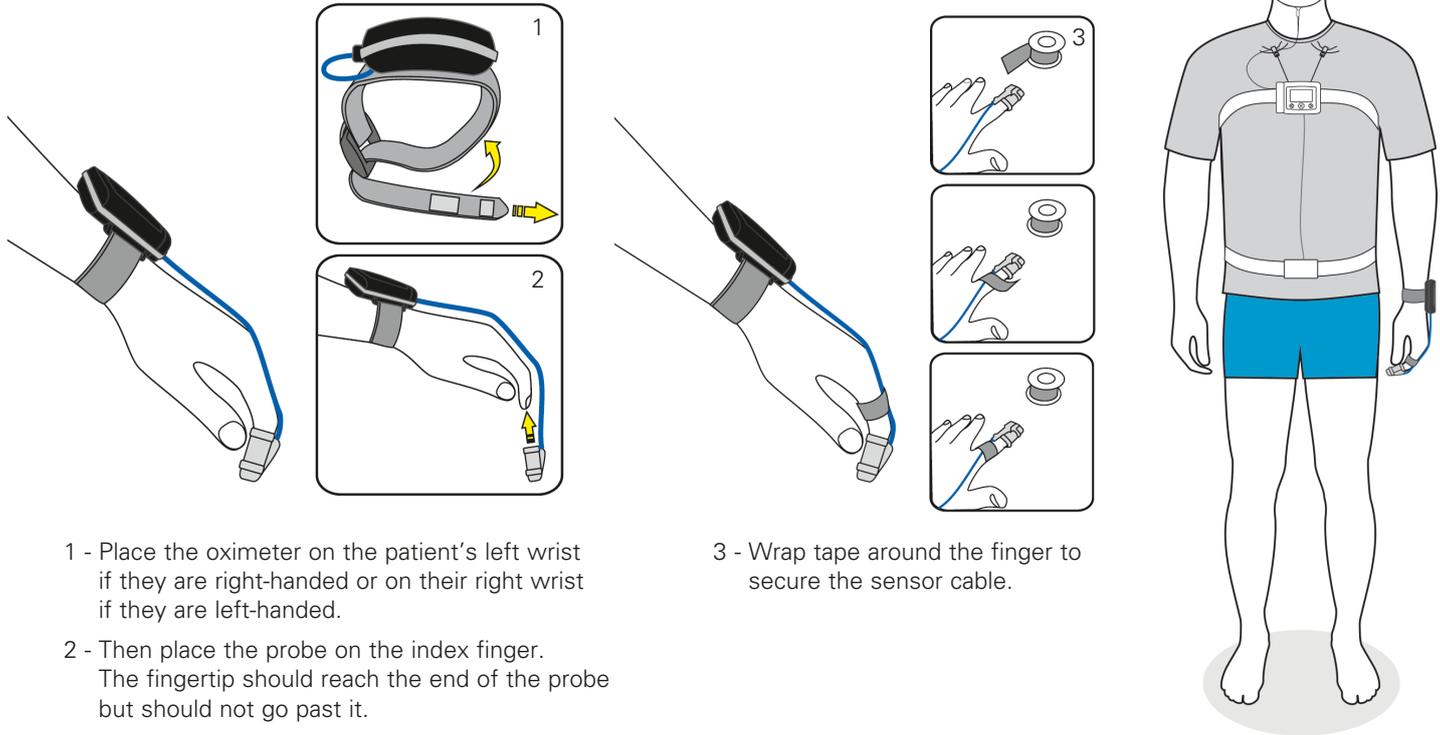
2 - Pull the cannula tubing over the ears.

3 - Slide the bolo up under the chin so it is snug but not too tight.



Patient hook-up

• Attach the oximeter



Patient hook-up

- **EKG option: recording with electrocardiogram**

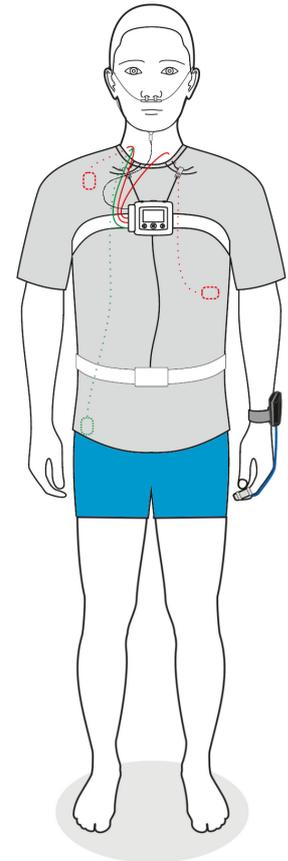
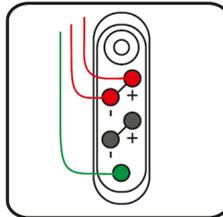
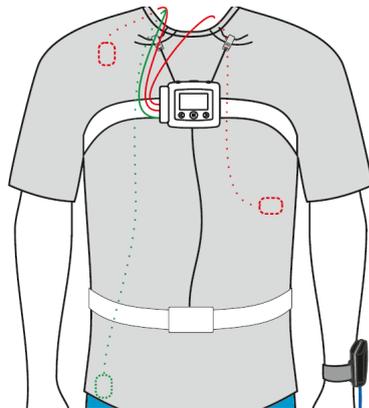
Make sure you use an appropriate recording type.

Equipment needed:

- 2 EKG electrode cables - 1 metre (PN 7073510)
- 1 ground electrode cable - 1 metre (PN 7073446)
- 3 single use, snap-on electrodes (PN 7075209)

Set-up:

- EKG electrode cables plugged into the bipolar channel selected in your device profile.
- 1 electrode on the 7th rib.
- 1 electrode above the right clavicle.
- Ground electrode cable plugged into the PGND input of the Nox T3 and the electrode on a neutral zone of the body (like the hip bone).



Patient hook-up

- **PLM option: recording with leg movements**

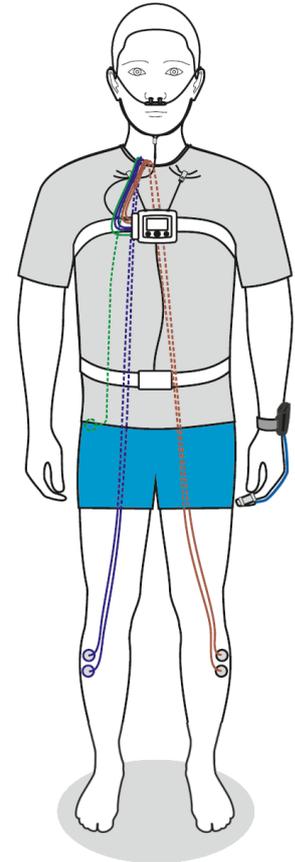
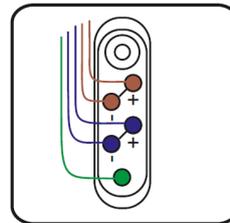
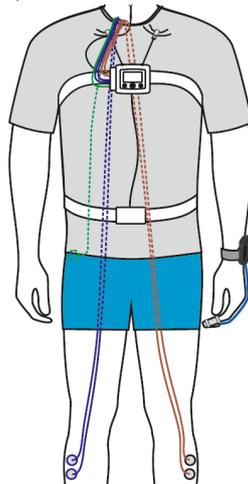
Make sure you use an appropriate recording type.

Equipment needed:

- 4 PLM electrode cables - 1.5 metre (PN 7073472)
- 1 ground electrode cable - 1 metre (PN 7073446)
- 5 single use, snap-on electrodes (PN 631526)

Set-up:

- 2 electrodes cables plugged into input 1 of the Nox T3, 2 electrodes on the left tibia muscle.
- 2 electrodes cables plugged into input 2 of the Nox T3, 2 electrodes on the right tibia muscle.
- Ground electrode cable plugged into the PGND input of the Nox T3 and the electrode on a neutral zone of the body (like the hip bone).



Patient hook-up

- **Therapy device option: pressure tubing installation**

Make sure you use an appropriate recording type.

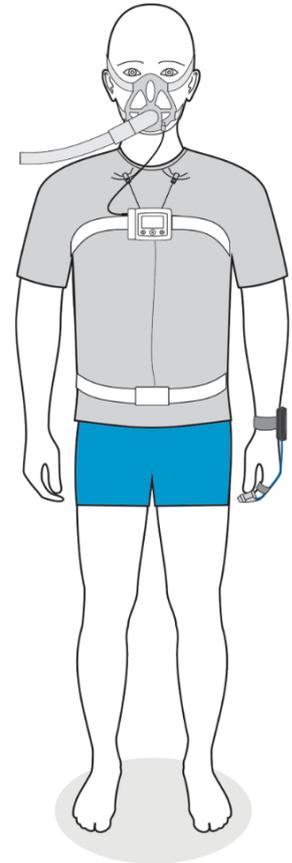
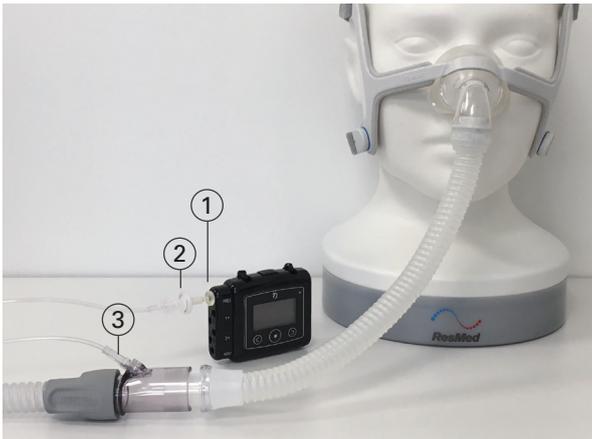
Equipment needed:

- Pressure tubing (PN 7072092)
- Nasal cannula filter (PN 7072097)
- Mask adapter (PN 26915)

Connect the pressure tubing to the mask and the Nox device

- 1 - Insert a filter into the pressure input of the Nox T3, where you would usually insert the nasal cannula.
- 2 - Screw the male luer-lock connector of the pressure tubing into the filter.
- 3 - Connect the female luer-lock connector of the tubing to the pressure port of the mask adapter.

Set-up picture:



Patient hook-up

• **Therapy device option: Braebon differential pressure sensor installation**

Make sure you use an appropriate recording type.

Equipment needed:

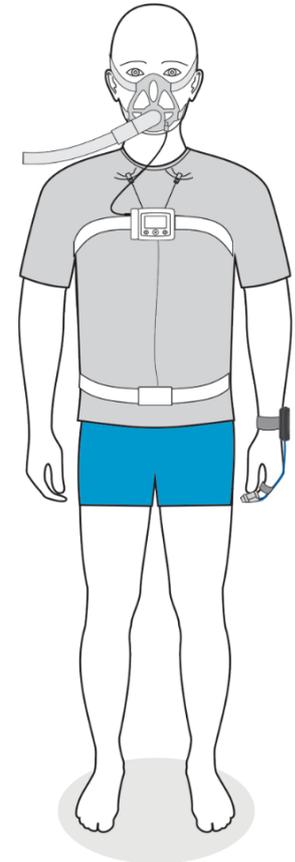
- Differential pressure sensor kit (PN 7073482)
- 2 hydrophobic filters for each recording (PN 7073746)
- 2 AAA batteries for the differential pressure sensor (last for 30 to 50 recordings of 8 hours)

Install the differential pressure sensor

Make sure that 2 fresh AAA batteries are inserted and that you are using 2 new filters.

- 1 - Connect the **green part** of the pneumoflow sensor to the **therapy device output**.
- 2 - Connect the **transparent part** of the pneumoflow sensor to the **patient tubing**.
- 3 - Connect the **red and black cable** to input 1 or 2 of the Nox T3.
- 4 - Connect the **white cable** to the black and red cable and plug it into the **Airflow** input of the differential pressure sensor.
- 5 - Put the gain of the differential pressure sensor on **LOW**.
- 6 - Switch the differential pressure sensor **ON** just before the recording. It will automatically stop after 10 hours of recording.

Set-up picture:



Check signals



Check signals

- **Verify the configuration and the status of the device**

You can see information on the recording and the signals by pushing the central button on the device.



Verify the **battery charge** indicator and check that the **start time of the recording** is consistent with your configuration.

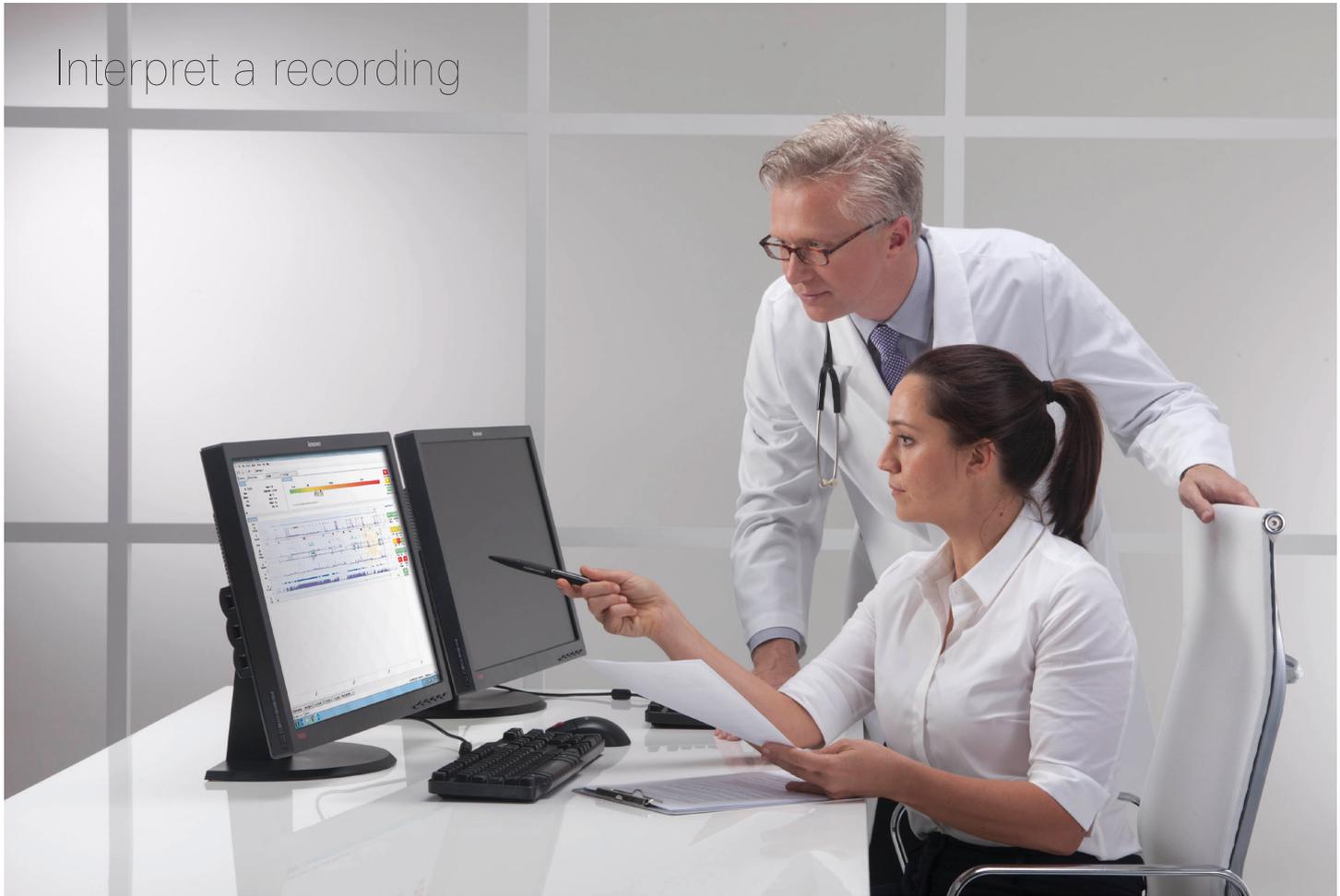


Press  to navigate through the menus and check the quality of the signals.

Once checks are complete, the patient can go home.

No action from the patient is required, the device will automatically turn on and off.

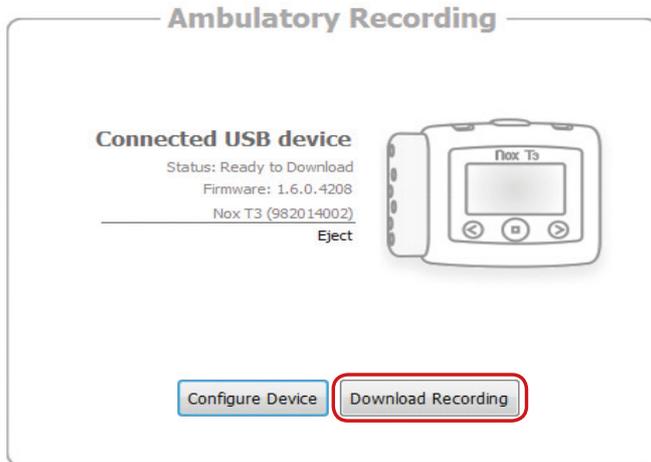
Interpret a recording



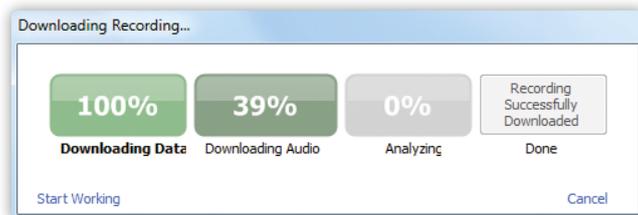
Download data

- **Download a recording**

Connect the device to the computer using the USB cable and click on **Download Recording**.



Noxturnal software automatically starts downloading and analysing data.



Download and analysis progress is displayed. The process should take about 1 minute.

Analyse data

• Results page

The recording results page is arranged as follows:



- 1 Patient information
- 2 Severity indicator
- 3 Signals and events overview
- 4 Analysis statistics
- 5 Commands

Analyse data

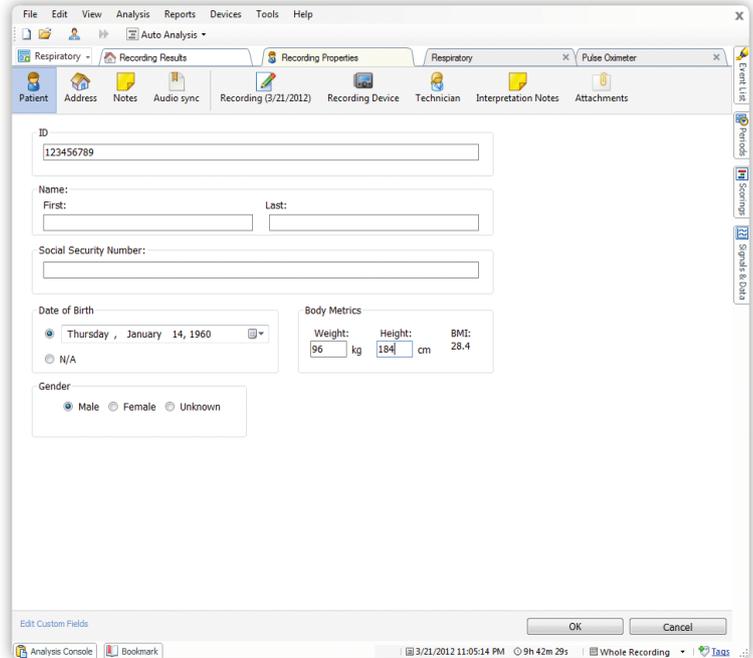
- **Change patient information**

Click on **Edit** or on the patient icon  to complete or modify patient information.

Information

ID: 123456789	Gender: Male
Name:	Date of Birth: 1/14/1960
Address:	Age: 52
City:	Height: 184 cm
Phone:	Weight: 96 kg
	BMI: 28.4

Edit



The screenshot shows a software window titled "Respiratory" with a menu bar (File, Edit, View, Analysis, Reports, Devices, Tools, Help) and a toolbar. The main area contains a patient information form with the following fields and values:

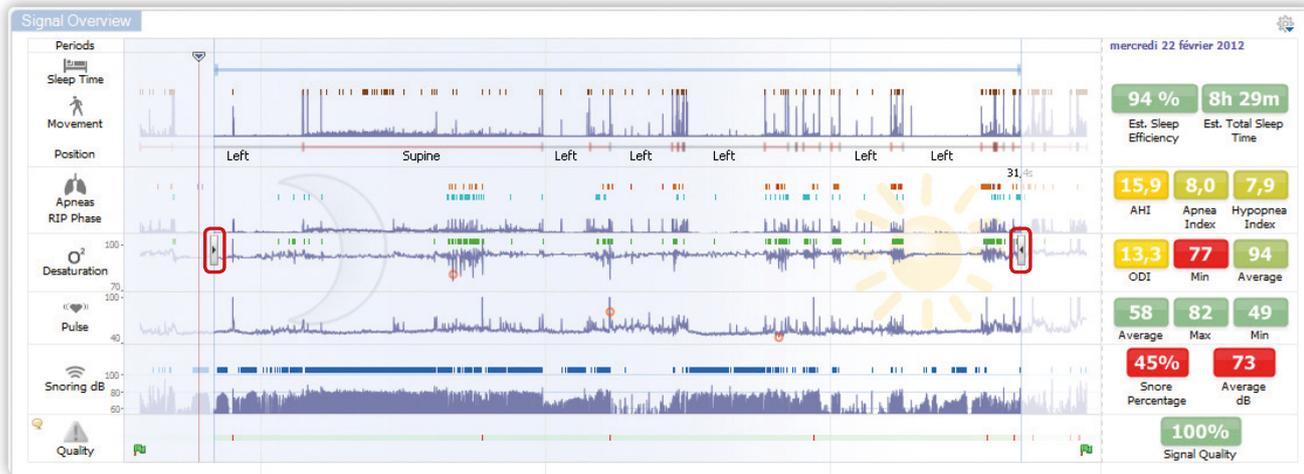
- ID:** 123456789
- Name:** (First and Last name fields are empty)
- Social Security Number:** (Field is empty)
- Date of Birth:** Thursday, January 14, 1960 (with a dropdown arrow)
- Gender:** Male (selected), Female, Unknown
- Body Metrics:** Weight: 96 kg, Height: 184 cm, BMI: 28.4

At the bottom of the form, there is an "Edit Custom Fields" link and "OK" and "Cancel" buttons. The status bar at the bottom shows "Analysis Console", "Bookmark", and system information: "3/21/2012 11:05:14 PM", "9H 42m 29s", "Whole Recording", and "Tags".

Analyse data

- Define start and end of analysis

Move the markers highlighted below to manually define the start and end of the analysis.



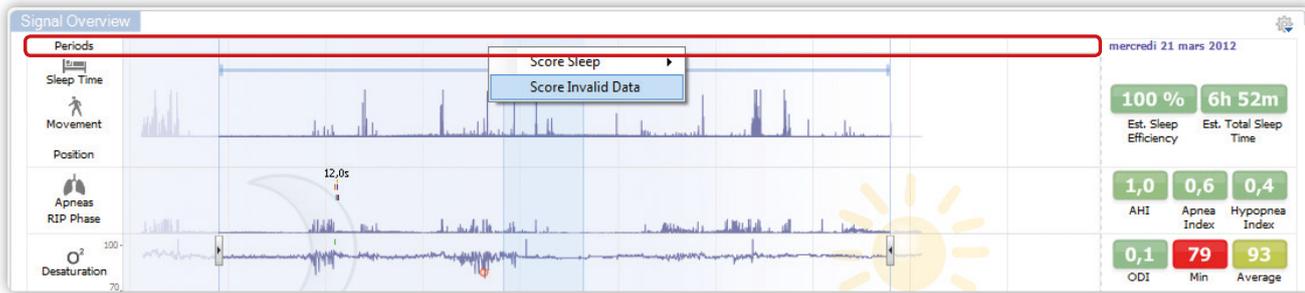
Recording statistics on the right side are automatically adjusted after every modification. You will find the same markers on every signal sheet.



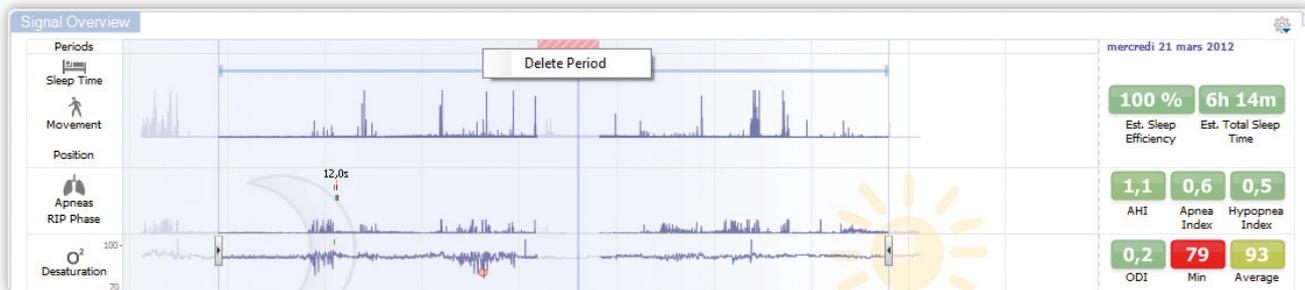
Analyse data

- **Exclude part of the recording**

Click and drag your mouse in the **Periods** area below and select **Score Invalid Data**.



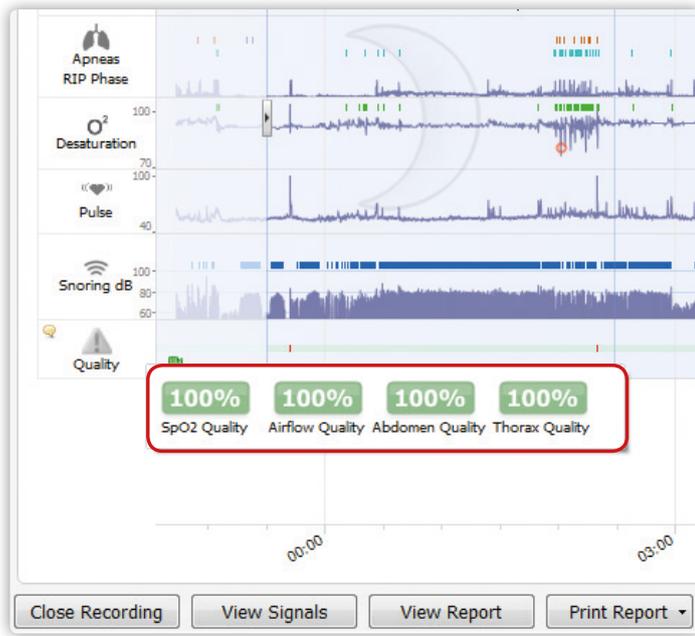
To delete an invalid data period, click on the red hatched area and click on **Delete Period**.



Analyse data

• Check signal quality

Check the quality of recorded signals by running the mouse over the **Quality** icon.



Click on **View Signals** to start scoring.

If the signal quality is poor, the validity of the overall recording should be questioned.



Please note that if problematic areas of the study are excluded the signal quality will increase and study will be considerably improved.

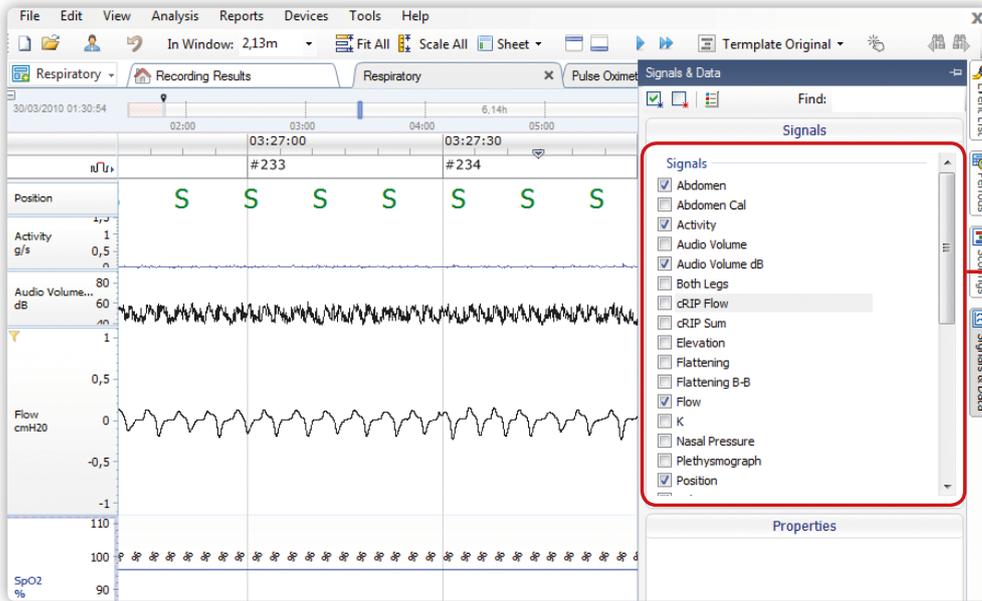


On the right side of the page, the “Signal quality” percentage shows the lowest quality rating obtained across all 4 signals.

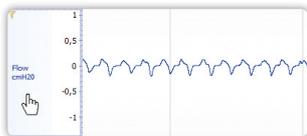
Analyse data

• Configure your workspace: select and arrange signals

Click on the **Signals & Data** tab on the right side of your screen and select the signals to display.



Check the boxes of the signals you want to display.

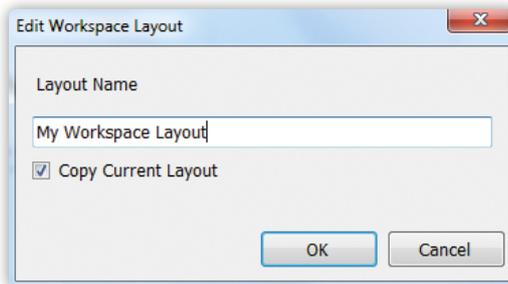
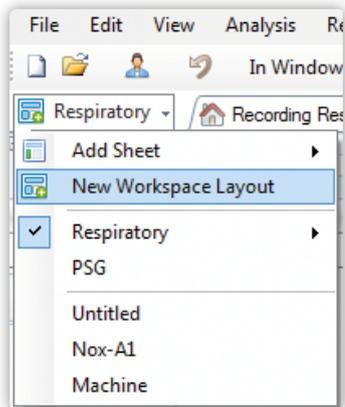


To move signals in the workspace, click on them when the mouse is shaped like a hand and drag them up and down.

Analyse data

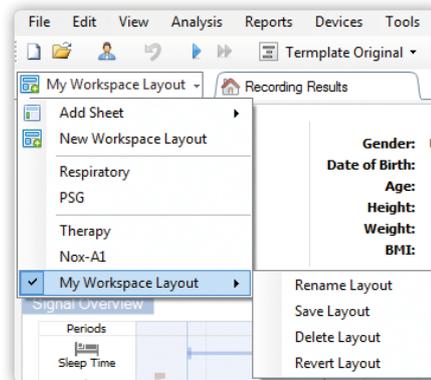
• Configure your workspace: create a workspace layout

Click on  and select **New Workspace Layout** to create a personalised layout.



Enter a name and click on **OK**.

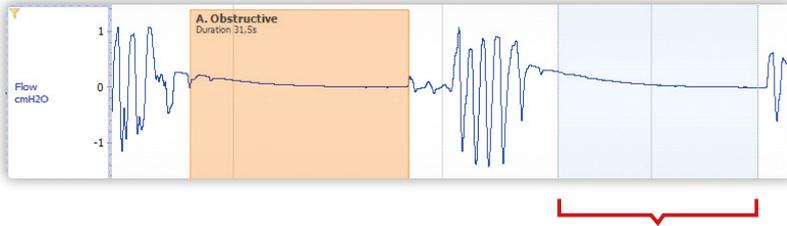
Your new workspace layout is now in the drop down list. You can load it, modify it and save the changes using the menu.



Analyse data

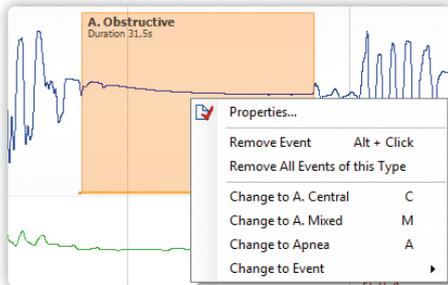
• Score events

To score an event, click and drag over the zone of interest and type the 1st letter of the event:



To delete or modify an event, use one of the following methods:

- Click on the event and press the **Delete** key
- Hold the **Alt** key and click on the event
- Right click on the event and select the intended option

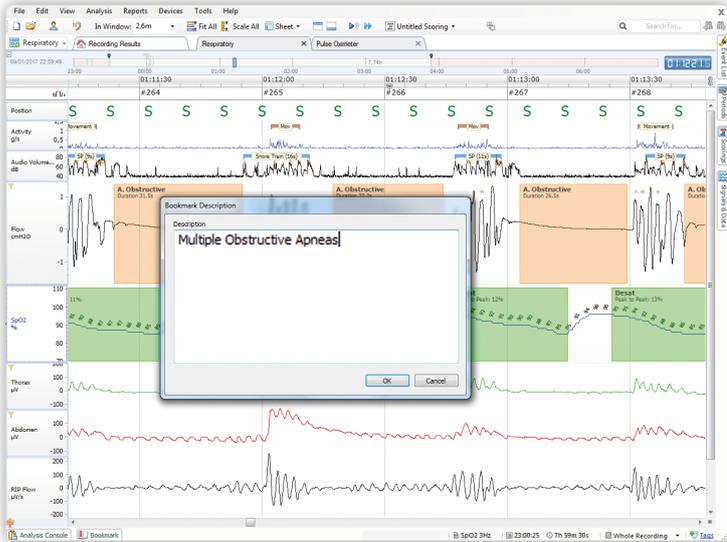


Keyboard shortcut	Events
O	Obstructive apnea
C	Central apnea
M	Mixed apnea
H	Hypopnea
D	Desaturation

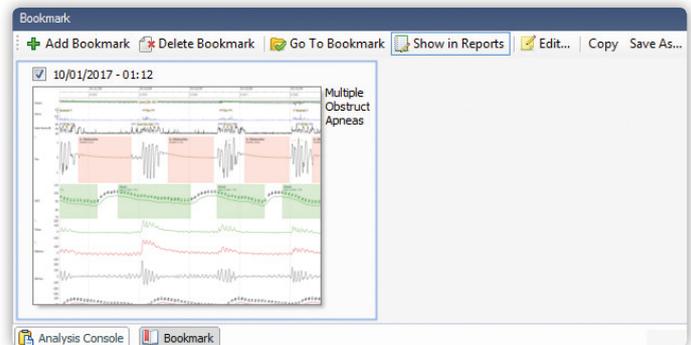
Generate a report

- **Add a screenshot**

To take a screenshot of a recording, click on the **Bookmark** tab at the bottom left of your screen. Click on **Add bookmark**, enter a description of the screenshot and click on **OK**.



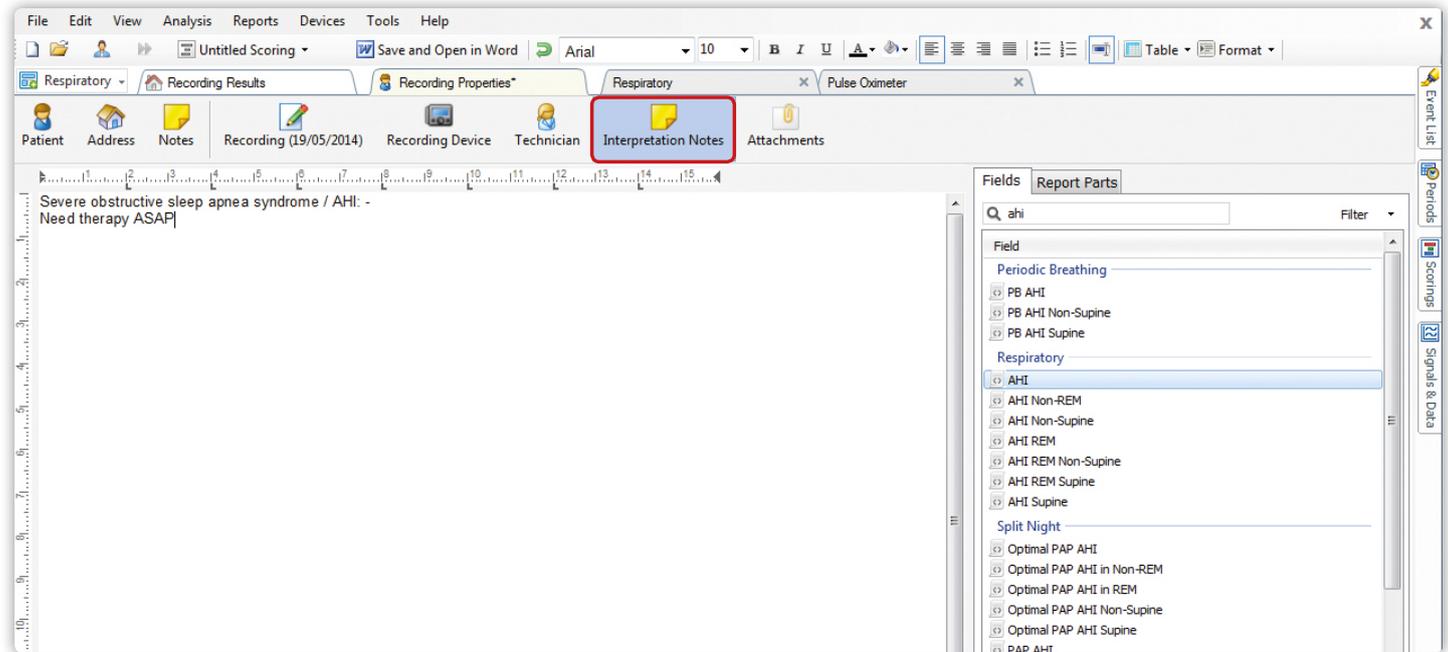
If you don't want this screenshot to appear in the report, uncheck the corresponding box or delete the bookmark.



Generate a report

- **Write an interpretation and generate a report**

Click on the patient icon  and then on **Interpretation Notes** to access the writing window.



Once your interpretation is written, click on **OK** at the bottom right to confirm. Then go to the **Report** menu and select the appropriate report.

Open an existing recording

Click on **Library** to access existing recordings.

Use the **Search for...** field to find your patients more quickly.

The screenshot shows a software interface with a navigation bar at the top. The 'Library' button is highlighted with a red box. Below the navigation bar is a search field labeled 'Search for...' and a dropdown menu set to '100 Items'. The main content area displays a table of recordings with the following columns: Patient ID, Last Name, First Name, Recording Date, Duration, Last Updated, Status, Tags, Media, and AHI.

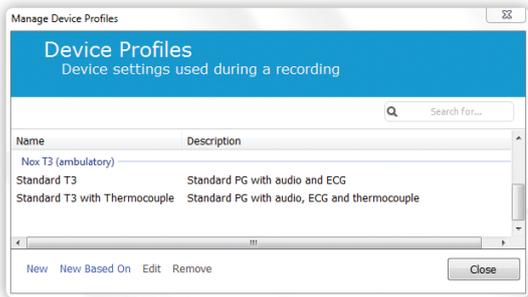
Patient ID	Last Name	First Name	Recording Date	Duration	Last Updated	Status	Tags	Media	AHI
KB - Iceland	JName	Adult PLM	09/07/2013 23:17	8h	Nine days ago 16:17	New	pg-without-oxi;focus-plm	Audio	4,1
285	2	Adult Bru...	26/06/2012 22:00	11h 44m	Nine days ago 16:29	New	standard-pg;focus-bruxism	Audio	22,9
SV-012	1	Adult Sn...	05/06/2012 21:58	11h 45m	Eight days ago 11:33	New	standard-pg;focus-snore	Audio	3,5
SV-006	2Name2	Adult Sn...	21/03/2012 23:05	9h 42m	Nine days ago 19:10	New	standard-pg;focus-snore	Audio	1,1
1111	1	Adult Bru...	06/03/2012 14:39	16h 21m	16/01/2017 11:46	New	standard-pg;focus-bruxism	Audio	6,8
123456789			22/02/2012 22:43	9h 57m	Nine days ago 16:14	New	standard-pg;focus-snore	Audio	15,9
Apneic + FL...	FLI	Adult Ap...	10/12/2011 02:49	1d 9h 13m	Nine days ago 16:15	New	standard-pg	Audio	0,8
PLM + PTT ...	FLI	Adult PLM	31/03/2010 01:07	7h 8m	27/01/2017 11:11	New	standard-pg;focus-plm;ekg		
Adult PLM	0	Adult PLM	30/03/2010 01:30	6h 8m	Eight days ago 11:32	New	standard-pg;focus-plm		1,3
Healthy Child	Healthy	Child	09/03/2010 20:54	10h 37m	27/01/2017 11:59	New	standard-pg		
Child on ETC...	ETCO2	Child ind	08/12/2009 19:58	11h 42m	27/01/2017 11:31	New	mask-study;etco2		9,7

Go further

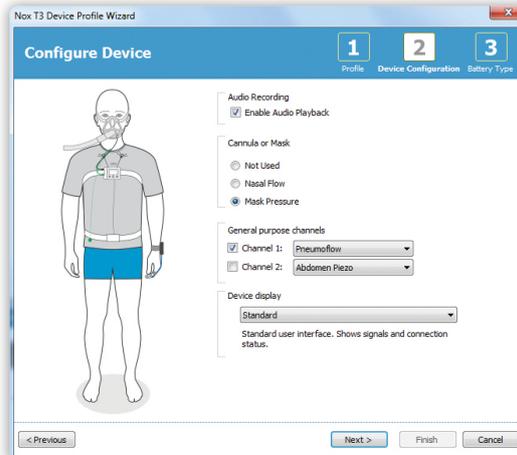
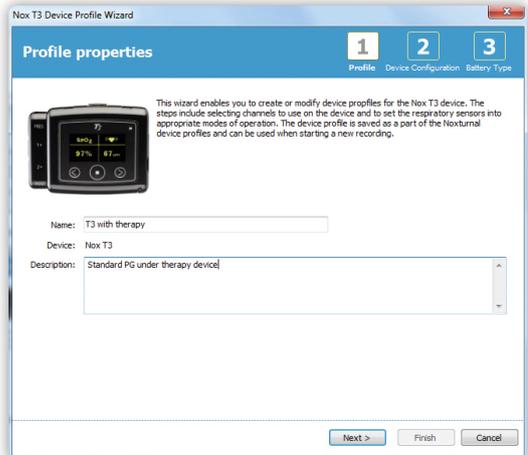


Create a new device profile

Click on the menu **Devices > Device Profiles...** to edit or create new device profiles.



Click on **New** or **New Based On** to open the Device Profile Wizard.



Enter:

- The name of the device profile
- The description

Select:

- The different signals
- The battery type

Create a new recording type

Go into **Devices > Recording Types...**

Select **Respiratory** and click on **New Based On**.

Recording Type

Recording Type

Select device types and settings for a recording

Recording Type Name: PG with therapy device

Description:

Workspace Layout: Therapy

Analysis: Respiratory RIP Flow

Report: PAP Report [AASM 2013]

Device Types

- Nonin 3150 Oximeter
- Nonin RespSense
- Radiometer CombIM (TCM4)
- Radiometer TOSCA (TCM40)
- ResMed Airsense 10
- ResMed S9
- SenTec SDM

Add >>

Remove

OK Cancel

Name: Name displayed when configuring a recording.

Workspace layout: Signals sheets that will be displayed by default when downloading the recording.

Analysis: Analysis that will be run by default after download.

Report: Report that will be opened by default when clicking on **Report** on the results page.

Nox T3: Choose the appropriate device profile to record all the signals you want.

Device types: Select Bluetooth devices able to communicate with the Nox T3, such as Nonin™ 3150, SenTec™*, Radiometer™* or ResMed AirSense™ 10 and AirCurve™ 10* therapy devices.

*You will need the W7-link S, R or A to connect with these devices.

Configure and use a W7-Link A

- **Equipment needed**

- Nox W7 Link Kit-A (PN 7075367)
- ResMed AirSense 10 / AirCurve 10 serial adapter (PN 37356)

- **Install the AirSense 10 / AirCurve 10 device**

- 1 - Plug the AirSense 10 / AirCurve 10 adapter into the side of your AirSense / AirCurve device
- 2 - Plug the serial cable into the AirSense 10 / AirCurve 10 adapter
- 3 - Connect the W7-A to the serial cable

- **Set-up picture:**



- When configuring your recording in Noxturnal software, **make sure you use an appropriate recording type**. You will be asked to enter the serial number on the back of the W7-Link.
- When recording is configured and everything is in place, check the correct pairing between the W7-Link and the Nox T3. To do so, turn on the Nox T3 by pressing the central button. Then **push twice on the right arrow of the Nox T3** and look for the checkmark.

Configure and use a W7-Link R

- **Equipment needed**

- Nox W7 Link Kit-R (PN 7073481)
- Radiometer extension cable

- **Install the Radiometer device (works only with TCM4 or TCM40)**

- 1 - Connect the Radiometer Extension cable to the Radiometer
- 2 - Connect the serial gender changer (provided with the W7-Link kit) at the end of the Radiometer extension cable
- 3 - Connect the W7-R to the serial gender changer

- **Set-up picture:**



- When configuring your recording in Noxturnal software, **make sure you use an appropriate recording type**. You will be asked to enter the serial number on the back of the W7-Link.
- When recording is configured and everything is in place, check the correct pairing between the W7-Link and the Nox T3. To do so, turn on the Nox T3 by pressing the central button. Then **push twice on the right arrow of the Nox T3** and look for the checkmark.

Configure and use a W7-Link S

- **Equipment needed**

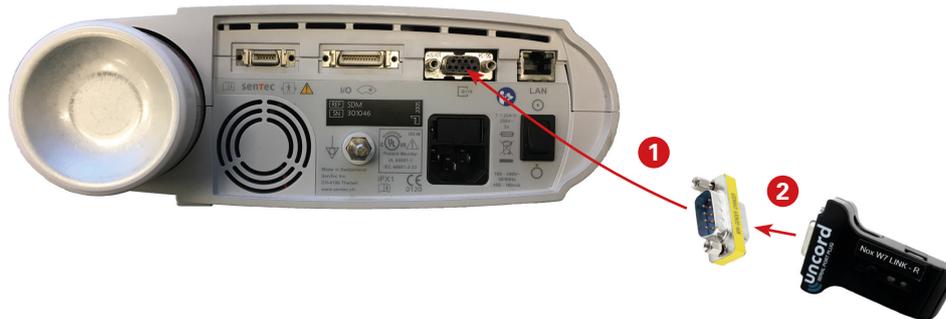
- Nox W7 Link Kit-S (PN 7073480)

- **Install the SenTec device**

- 1 - Connect the serial gender changer (provided with the W7-Link kit) to the serial port at the back of the SenTec

- 2 - Connect the W7-S to the serial gender changer

- **Set-up picture:**

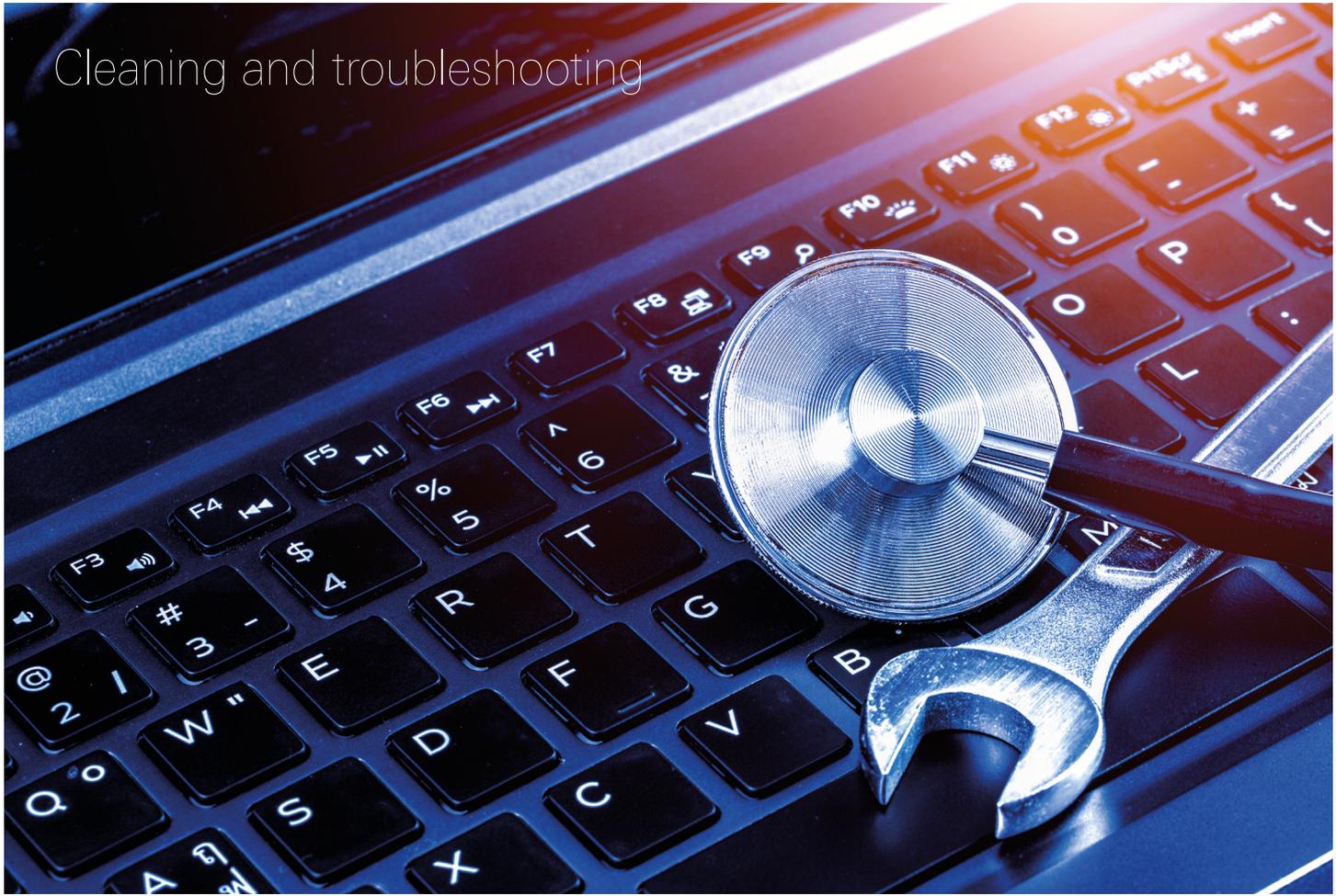


- When configuring your recording in Noxturnal software, **make sure you use an appropriate recording type.**

- You will be asked to enter the serial number on the back of the W7-Link.

- When recording is configured and everything is in place, check the correct pairing between the W7-Link and the Nox T3. To do so, turn on the Nox T3 by pressing the central button. Then **push twice on the right arrow of the Nox T3** and look for the checkmark.

Cleaning and troubleshooting



Clean devices and accessories

Clean devices and accessories between each patient according to the procedure below.
Belts and cannula are single use and must be changed between each patient.

Procedure	
 <p>Nox T3</p>	<p>To disinfect the different elements, the following products can be used:</p> <ul style="list-style-type: none"> • 70-90% isopropanol • Super Sani-Cloth Plus disinfection wipes • Sodium hypochlorite diluted with water at 1:500 (bleach)
 <p>Abdominal cable</p>	<p>Clean the cables with a moist cloth using hospital grade cleaner. Clean the Nox T3 device with a soft cloth dampened with hospital grade cleaner that is not corrosive to plastic or metal. Do not pour or spray any liquids onto the device, and do not allow any liquids to enter any openings on the device. Do not immerse the cables in liquid and avoid contact between the cleaning solution and the connectors.</p>
 <p>Oximeter 3150</p>	<p>Use a soft cloth with a 10% bleach / 90% water solution (household bleach < 10% sodium hypochlorite) to clean the device. Do not use undiluted bleach or any other cleaning agent because it could cause permanent damage.</p>
 <p>SpO₂ sensor</p>	<p>Disconnect the probe from the oximeter before cleaning. Use a soft cloth with a 10% bleach / 90% water solution (household bleach < 10% sodium hypochlorite) to clean every part that is in contact with the patient. Do not autoclave. Do not submerge or immerse sensor or connector plug. Do not use caustic or abrasive cleaners. Do not use ammonium chloride-based cleaning fluids. Using these products could shorten the lifespan of the devices.</p>

The use of any other cleaning agent, especially ammonium chloride, is strongly discouraged as there is a high risk it will shorten the lifespan of the device and its accessories.

Troubleshooting

For any issue not listed below, please contact your ResMed representative.

I don't have oximetry data on my recording

- Solution 1: Verify that the **PIN number** entered during the configuration of your recording is the same as the one **on the back of your Nonin 3150 oximeter**
- Solution 2: Check battery status
- Solution 3: Conduct the pairing process as described on page 12
- Solution 4: Check that the saturation sensor is working and that values are displayed when you put your finger into the probe
- Solution 5: Reset Nonin 3150 oximeter → see page 48

My recording stopped prematurely

- Solution 1: Check the battery status in the **Device Log**. You will find it by clicking on the patient icon 
- Solution 2: Download the recording again

I can't download the recording

- Solution 1: Check that you have access to your database test by opening old recordings
- Solution 2: Try using a different USB port on your PC (ideally at the back of the PC)
- Solution 3: Repair the file system of the Nox T3 → see page 46

My Nox T3 is not recognised / There is an error message at the end of the configuration

- Solution 1: Reboot the computer and try again
- Solution 2: Try using a different USB port on your PC (ideally at the back of the PC)
- Solution 3: Reset the Nox T3 → see page 47

My patient isn't in the library

- Solution: Right click on **My Recordings** and select **Rescan Location**

Every analysis statistic is 0

- Solution: Launch an analysis by clicking on **Respiratory Cannula Flow** in the **Analysis** menu

Troubleshooting: Use the Device log

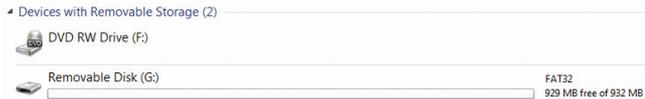
After opening a recording with Noxturnal, click on the patient icon  and then on **Recording device**. The following chart will help you understand and identify the different lines in this log.

Message	Meaning
17:59 Display Turned On, Display Turned On	Device is turned on by pushing the central button
18:03 Oximeter Device On, Oximeter Connected. ID = 765582	Oximeter is connected, indicates the pairing procedure was followed correctly
18:03 Oximeter Device Off, Oximeter Disconnected. ID = 765582	Oximeter is disconnected
22:00 Scheduler start, Scheduler starting recording	Recording starts at scheduled time
22:00 Recording Started, Recording started	
22:00 Scheduled Recording Duration, Scheduled Duration (s) = 36000	Scheduled recording duration is 10 hours
22:00 Oximeter Device On, Oximeter Connected. ID = 765582	Oximeter is connected
22:00 Log, Free Disk Space (bytes) = 980017152	Available memory space
02:39 Battery Status, Battery Status = 90%	Battery status (in 10% increments)
08:00 Scheduler Stop, Scheduler stopping recording	Recording stops after the scheduled time and duration
08:00 Recording Stopped, Recording stopped	
08:00 Display Turned Off, Display Turned Off	Nox T3 screen turns off
Abnormal lines	Meaning
00:49 Oximeter Probe not on Finger Oximeter Sensor probe Off	The finger isn't in the probe or the sensor is broken (SpO ₂ value in Noxturnal = 127)
00:59 Oximeter Battery Low, Oximeter Battery Low	Oximeter batteries are almost empty
01:25 Low Disk Space	Nox T3 memory is almost full and the recording will stop
22:00 Oximeter Sensor Fault, Oximeter Sensor Fault	Error in SpO ₂ reading, finger isn't properly positioned in the probe
02:16 Battery is empty, Battery is empty	Battery went flat before the end of the recording

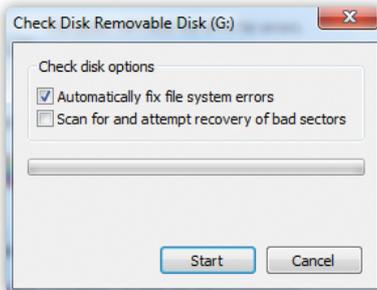
Troubleshooting: Repair Nox T3 file system

Error messages when downloading a recording are most often caused by a corrupt file. This can occur when the Nox T3 device is unplugged from the computer without being ejected first. You can repair the file system by following the steps below (you will need admin rights):

1. Click on the **Windows** icon and **Computer** or simultaneously press the **Windows** key and the **E** key.
2. Plug the Nox T3 into the computer: it should appear as a **Removable Disk**.



3. Right click on it and select **Properties**. In the **Tools** page, click on **Check now...**
4. Check the two boxes, click on **Start** and wait.



5. At the end of the process, a message indicating that an error has been found and fixed should appear.
6. Open Noxturnal and download the recording again.

Troubleshooting: Reset a Nox T3

! This procedure will erase all data on the device (patient information, PIN code of the oximeter).

1. Connect the Nox T3 to a computer and **click on the right button** of the device until you see a reset menu.



2. **Hold down the central button** until the progress bar ends.
3. Once the device is restarted, it is completely reset.

Troubleshooting: Reset a Nonin 3150 oximeter

If the Nonin 3150 oximeter does not perform as expected, it is recommended that you follow the reset process described below:

1. Remove the **two batteries** and **disconnect the probe from the oximeter**.

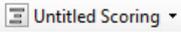
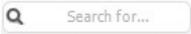


2. Wait for 1 minute and **reinsert the batteries**.
3. Press and hold down the grey activation button for 3 seconds until the screen turns on.



4. Reconnect the probe.
5. The device is now reset.

Noxturnal toolbar

Button	Description
	Open the menu to add new sheets and to personalise your workspace layout
	Create a new workspace
	Open a recording
	Undo the last action
	Open the recording properties
In Window: <input type="text" value="3m"/>	Change the time interval of your window
	Automatically adjust the size of signals to fit into the window
	Automatically adjust the scale of each signal
	Open the advanced menu of the sheet
	Activate audio playback of the recording
	Open scoring menu
	Activate single click scoring
	Show or hide the top pane
	Show or hide the bottom pane
	Search for a signal or an event
	Go back to the previous result
	Go to the next result
	Open Noxturnal user guide

Consumables and accessories



Consumables and accessories

Cannulas and airflow sensors

7072074	Nox Cannula with filter - x40 - Adult
7075340	Paediatric nasal pressure monitoring cannula - 60 cm - x50
7072097	Nox Filter Tube Connector - x50
7072096	Nox Cannula with luer-lock - x50 - Adult
7072089	Airflow sensor (thermocouple) for Nox T3 - 210 cm - Adult

RIP Belts

7072086	Nox RIP Belts Disposable - x20 - XS
7072077	Nox RIP Belts Disposable - x20 - S
7072078	Nox RIP Belts Disposable - x20 - M
7072079	Nox RIP Belts Disposable - x20 - L
7073504	Nox RIP Belts Disposable - x20 - XL

Spare parts

7072588	Nox-T3 Battery Lid
7075307	Nox-T3 Clips - x2
7073323	Nonin 3150 Wrist Band
7072098	Nox abdomen cable
7073972	Nonin 3150 Enclosure battery door
7073515	Battery lid key

W7-Link option

7073480	Nox W7 Link Kit-S (SenTec)
7073481	Nox W7 Link Kit-R (Radiometer TCM4 / Radiometer TCM40 / ResMed S9)
7075367	Nox W7 Link Kit-A (ResMed AirSense 10 / AirCurve 10)
36955	ResMed S9 serial adapter
37356	ResMed AirSense serial adapter

Consumables kits

7072596	Nox RIP Belts and Cannula Kit (Abdomen cable, Nasal cannulas x80, RIP Belts: Sx20-Mx40-Lx20)
7072597	Nox RIP Belts and Cannula Kit (Abdomen cable, Nasal cannulas x 80, RIP Belts Mx80)

Oximetry sensors

7072161	Soft sensor for Nonin WristOx2 - Small
7072162	Soft sensor for Nonin WristOx2 - Medium
7072163	Soft sensor for Nonin WristOx2 - Large

Therapy device option

7073482	Nox Differential Pressure Sensor Kit
7073740	Pneumoflow Sensor
7073741	Differential Pressure Connector Cable - 2 m
7073742	Nox T3 Adaptor Cable for Differential Pressure - 30 cm
7073743	Pneumoflow Straight Connector (transparent part)
7073744	Pneumoflow Straight Adapter (green part)
7073746	PT1 Hydrophobic Filters - x50
7072092	Mask tubing - 180 cm

PLM and EKG option

7073510	Snap-on lead - 100 cm - Orange - x2 - EKG
7073446	Snap-on lead - 100 cm - Green - Ground
7073472	Snap-on lead - 150 cm - Black - x2 - PLM
7072171	Snap-on electrode Ambu Blue sensor M 40.8x34mm - x50 - Single use
7075209	Snap-on electrode Ambu Blue sensor R 57x48mm - x25 - Single use



nox medical

For more information,
please refer to the Nox T3™ user manual.

ResMed diagnostics support service: diag.support.eu@ResMed.com

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