

Release note Nor145 and 150 Version 5

With the release of SW version 5 for Nor145 and 150 we add several useful functions to further enhance the performance of the Nor145/150.

V5 is a payable upgrade.

Price: NOK 3 900,-.

Please note: To run v5 you need new license codes.

A new version of NorReview (V6.3.36) and NorConnect (V5.0.220420) is also available.

Ultrasound, option 14

Ultrasound requires a more well-defined A weighted network above 20KHz. IEC61012 Specify a U network that shall be added to the A-network – the AU network. This network removes the high frequency content in the A filter. The main features of the ultrasound options are:

- AU weighting network is added, labeled as U.
- Extended from 3 to 4 parallel weighting networks.
- 1/3 octave bands up to 40kHz and 1/1 octave up to 32.5 kHz.
- FFT up to 42kHz.
- To achieve this, the sampling rate is doubled to 96KHz with the result that the audio recording is performed up to 40kHz in ultrasound mode.

The number of weighting networks is extended to 4 simultaneously networks. This enables simultaneously measurement of LAeq, LCpeak, LAUeq and LZpeak which mean that you now can measure “Ultrasound noise at work” simultaneously with “standard noise at work parameters”. This is a unique feature not seen in any handheld instrument.

Option 14, Ultrasound is payable upgrade.

Price: NOK 10 400,-.

Calculated weighting networks

In normal mode (no Ultrasound) a calculated weighting network can be activated and displayed as a 4th network. A calculated network is a weighted sum based on the 1/1 or 1/3 octave spectra. We have made a few predefined networks, such as G (for infra sound measurements) and B. In addition, the A, C and Z networks are added as calculated networks. The calculated network can be limited to a specific frequency range, like “Delta Leq in Nor140”, a requested feature from many Nor140 users that want to switch to Nor145.

User defined weighting network

In the same menu we have added a feature where you can add user defined networks. In this example we have added two networks, D and Machine. You manually enter the attenuation on each 1/3 octave band or alternatively load the attenuation spectrum from a file.

NR/NC/RC rating curves

Full support for NR/NC/RC-II is implemented, including graphical view in 1/1 octave bands.

Automatic detection of impulsive noise according to ISO1996-3

One of our missions is to ease the reporting work for our users. The new ISO1996-3 define how to distinguish impulsive noise. To judge if a noise spectrum is impulsive or not, and thereby add a penalty to the LDEN calculation, has always required severe manual labour work. In V 5 this feature is implemented and can be turned on in the function list as LAFKi.

- Onboard impulsivity detection in measurements according to ISO/DPAS 1996-3:2020.
- Impulsivity adjustment factor (Ki) can be measured for further use in Lden calculations in NorCloud.
- LAFKi can be activated for Global and ProfileA in the “Functions” menu (available only for A network).
- LAFKi can be displayed in the SLM view and the L/t view (graph and table).

Support for Nor282

The new battery-operated power amplifier Nor282 can be remote controlled via WiFi. You select noise type, level etc in the noise generator menu on the instrument. The instrument will turn on / off the noise generator when controlled from BA mode.

Less hassle in field. No signal or power cable needed anymore. Full control is taken from the instrument.

Video as trigger action and available in Note menu

- “Video” can be selected as Action in the Event trigger menu.
- A supported Axis camera must be added and activated in the Measurement/Camera menu.
- Video player is not implemented in the instrument.
- The video format may not be ideal for some applications. We have a rather high framerate and a low resolution on current implementation.

Report generation (.txt) onboard for Environmental measurements

- Can be enabled in “Storage mode” menu if Profile period length is 1 second or greater.
- Will automatically save a name.txt file containing a text dump of the measurement results, inside the measurement folder.
- Data can be directly imported from the SD card to Excel or other programs accepting .TXT files without use of NorConnect.

Improvements in Building acoustic mode

- A, C and Z networks is made available in Building acoustics measurements.
- Cursor readout for A, C and Z.
- Show by default LAFSPL during level measurement.
- A-weighted RT measurement.
- Pause-Continue implemented including numerical back erase (0-14 seconds).

Improvements for Nor1545 and solar cell power

- Selection for “External power” (Normal or Solar cell) in Power settings menu.
- Sleep mode. You can now select a time of the day to “go to sleep” and then wake up after predefined number of hours. (Applies to the instrument – not you).
- It is recommended to upgrade 1545 systems that is mainly powered from solar panels. This requires hardware modifications that should be done at the factory.
- New Nor1545 systems with improved solar cell usage.

NoiseCompass IP configuration

- Possibility in “Noise Compass” menu to configure IP setting in the Noise compass.
- Show MAC address for LAN and Wifi in Communication menu.

Bugfixes

- Language was reset (set back to English) after restart for instruments running in NorCloud.
- Improvements in communication with NorCloud for increased stability and redundancy.
- Improvements in WiFi communication.
- Misc other bugfixes.
- Graphical back erase in Sound Intensity mode could cause a system crash. It is now implemented a numerical back erase like the one in BA mode. (0-14 sec).