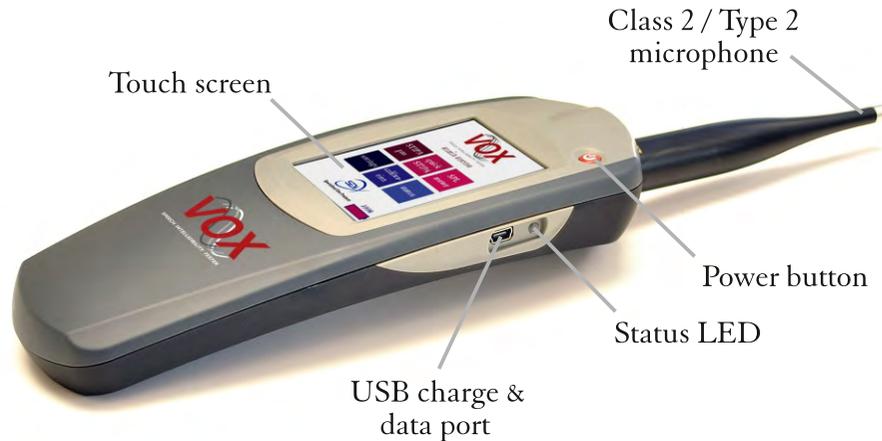


## Quick start guide



## VOX-01 components

The VOX-01 ships with the following components bundled together in its carrying case:

- The VOX-01 instrument itself
- A Type 2 / Class 2 measurement microphone with integrated pre-amplifier
- USB charger
- USB charger international adapters (US, EU, UK, AU)
- USB cable for charging and data transfer
- Carrying cord (lanyard)
- Spherical foam windscreen
- Flashdrive with test signals and the complete VOX-01 manual
- Calibration certificate

This quick start guide only gives some essential information needed to start working with the VOX-01. The complete manual (included on the USB flashdrive) gives useful additional information to help you get the most out of the VOX-01. The latest update of the manual can also be downloaded from our website: [www.sdifire.com](http://www.sdifire.com)

## General use and safety precautions

The VOX-01 is a sophisticated measuring instrument that should be used, maintained and stored with care:

- Do not expose the VOX-01 or any of its components to liquids or moisture
- Use the supplied carrying cord to protect it from accidentally being dropped
- Do not use in any environment or atmosphere that may contain flammable or explosive materials
- Protect against heat, high temperatures and flames
- Do not leave the device unattended for long periods of time while operating
- Do not recharge the device when it is inside a closed container. Switch off before storage.



The XLR connector on top of the VOX-01 provides 48V phantom power. Connecting equipment or microphones not designed for 48V phantom power to the VOX-01 will result in permanent damage to this equipment and possibly to the VOX-01 itself.



The VOX-01 can be charged and powered through USB. The voltage provided to the USB connector must never exceed 5.5V. Only use the supplied charger, other chargers and PC USB ports may not supply sufficient current for recharging.



The supplied charger is designed for worldwide operation on any AC source (100V-240V). Use with the appropriate adapter for your region. Do not use if wet, cracked or broken.

## Preparing your first measurement

Take the following steps to prepare the VOX-01 for your first measurement:

- Attach the carrying cord
- Connect the measurement microphone to the instrument (XLR connector)
- Press the red power button once to boot the device
- The device takes a few seconds to start up. If the device fails to boot, recharge the battery first (see: “charging and data transfer”)
- The device will now show the main menu:



From the main menu, you can launch apps for the instrument's different measuring modes, as well as apps that let you calibrate the device and control its settings. All modules make use of an intuitive graphical user interface utilizing the VOX-01's color touch screen. This gives all modules a consistent look and feel, which will allow you to familiarize yourself with the device with ease.

A button that takes you straight back to the main menu is found at the display's top right corner in all modules.

## Acoustic measurements

The microphone supplied with the VOX-01 is an omnidirectional microphone complying with Class 2 / Type 2 requirements. The VOX-01 can also be used with other 48V phantom powered microphones, but when connecting a different microphone, always consult the VOX-01 manual for guidance on required checks and calibration.

The VOX-01 is designed to be an extremely flexible acoustic measuring instrument. Its electronics and digital processing capabilities allow the VOX-01 to be used for virtually all types of acoustic measurements, including Sound Pressure Level and Speech Transmission Index measurements. Please consult the complete manual supplied digitally to find out which acoustic measurements your VOX-01 currently supports. This depends on your firmware version; firmware updates (which may include extensions of the VOX-01's capabilities) are downloadable at [www.sdifire.com](http://www.sdifire.com)

We recommend that you take the following precautions during any kind of acoustic measurement:

- If you are working in a high-noise environment, make sure to use earplugs or earmuffs.
- While measuring, point the VOX-01 (and in particular its microphone) away from large objects, and away from your own body. It may be convenient to mount the VOX-01 on a tripod.
- Use the supplied foam windscreen when measuring outdoors. If you intend to measure in very windy environments, consider purchasing a larger windscreen.

## Charging, data transfer & updates

The VOX-01 features an internal rechargeable high-capacity battery. The battery will typically last for 5 to 8 hours of continuous use, depending on the device settings. A full recharge cycle takes 3 to 4 hours. Recharging takes place through the USB connector, making use of the supplied charger and USB cable. The charge cycle has finished when the charge status LED burns green continuously.



Always use the supplied USB charger and USB cable for recharging your VOX-01. USB ports on PC's and Macs can be used to power the VOX-01, but the available current is usually insufficient to simultaneously charge the battery. If you need to use another charger than the one supplied with the VOX-01, then make sure that it is cable of delivering at least 1500 mA of charge current.

The USB port is also used for data transfer between the VOX-01 and your computer. If you connect the VOX-01 to a computer, a dialog window will appear on the VOX-01 asking you whether you want to start data transfer with the PC. If you choose to exchange data, then the VOX-01 can not be accessed through its display anymore. If you continue without data exchange, then the device remains operational and is powered through USB.

The VOX-01 presents itself to computers as a "mass storage device," similar to flash drives and external hard drives. You can retrieve data from stored measurements by simply copying them from the VOX-01's internal storage. Firmware updates can also be installed, by copying update packages to the designated location on the VOX-01's file system. Please refer to the full manual for details.

## The Speech Transmission Index

The VOX-01 offers two different modules for measuring the Speech Transmission Index: "STIPA pro" and "Quick STIPA." Both modules make use of the STIPA test signal and the corresponding analysis algorithm. While "STIPA pro" offers access to intermediate measurement results and several advanced features, "Quick STIPA" is perfect for easily carrying out straightforward measurements.

The Speech Transmission Index method is a powerful tool for determining the level of speech intelligibility offered by transmission channels, such as PA systems, large rooms and halls, and telecommunications systems. Next to the STI itself, which is a number between 0 and 1 corresponding to the range between 0 and 100% intelligibility, the STIPA tools on the VOX-01 also provide a wealth of diagnostic information. Description of the STI method and STIPA measuring is beyond the scope of this guide, but in brief, each STI measurement involves the following steps:

- Make sure that the STIPA test signal is being played back through the channel under test. The STIPA signal is found on the supplied USB flashdrive in .WAV and/or .MP3 format.
- While the signal is playing, position the VOX-01 at a representative listener location and press "start." Each measurement runs for 25 seconds. During the measurement, the estimated STI is already shown.
- We recommend doing multiple measurements, at different locations. Data can be stored using the "save" button and retrieved through USB for further analysis and for reporting

## Factory calibration and warranty

Your VOX-01 was thoroughly inspected and calibrated before leaving the factory. The calibration certificate is included with your instrument. As any acoustic measuring instrument, the VOX-01 needs to be factory-recalibrated periodically. Our recommended maximum calibration interval is 2 years.



If the instrument "hangs," becomes unresponsive or generates error messages, try keeping the red power button pressed for 10 seconds. This forces the device to power down, after which you can completely restart the device. If the problem persists, contact the manufacturer.

The VOX-01 is covered through the manufacturer's worldwide warranty programme for 24 months from the date of purchase. This warranty programme covers all defects, except for those resulting from accidents, misuse (including improper electrical connections) and improper maintenance. Explicitly excluded from warranty are signs of normal wear and tear, scratches on the LCD screen, cracks from falling or dropping, damage resulting from improper electrical connections and water damage.

Please direct your warranty claims to:

SDi,  
3535 Route 66, Building 6,  
Neptune, NJ 07753  
Tel: 732-751-9266 Fax: 732-751-9241  
Email: [Sales@sdifire.com](mailto:Sales@sdifire.com) Web: [www.sdifire.com](http://www.sdifire.com)

Contains NiMH batteries.  
Remove battery pack before  
disposing of this device.

