

10EaZy version Change log

PLEASE READ THIS! - Valuable information about improvements and new features

New features and improvements in version 2.8

Complete rework of remote viewer - viewer now support adding multiple systems to the same screen as well as responsive design

Added ability to view "TrafficLight" type of webview (<http://ip/TrafficLight.html>)

Added HKEY HungAppTimeout to prevent windows shutting down prior to log file e-mails being send.

Updated secondary Leq displays to also have LED green color - C-weight is becoming increasingly important at live events.

New features and improvements in version 2.7.2:

Minor bug-fixes:

Fixed bug in 1Sec logfile code that would make files grow exponentially in size over time.

Fixed bug in ExitScreen that would prevent proper display on small "kiosk-type" screens with 600px height

Fixed bug that randomly would prevent RT users from receiving e-mails on auto power down system

New features and improvements in version 2.7.1:

Fixed a bug in webviewer. Colors of A and C-weight displays would change to indicate limit violation, even if limits was not activated.

1 Sec LogFile writes are now optional to reduce excess disk usage for users with no need for this feature

Added LCEq limit violations and time above limit counter for History Display and Exit Screen

For German DIN15905-5 users, the external display now offer corrected DIN Slow, DIN Lar30 and DIN LCpeak

Added C-weight measurement summary to the bottom of the log-file IF C-weight limit is monitored.

Updated E-mail resume jpeg as well as text to reflect C-weight limit violations if monitored.

New features and improvements in version 2.7:

Enter Setup Screen by pressing any key, plus clearer indication of setup screen loading.

Significant update to the remote WebViewer

Access the 10EaZy remote view simply by entering the IP address of a computer running 10EaZy (Thanks Yannick Dekens!)

1 sec Logfiles for select A and C-weight now included for Full feature software - files are stored locally, but not e-mailed due to size.

1 Sec LAeq and LCEq available from display dropdown and in the extra display

Update to history display to include C-weight averages and generally provide a better and more complete overview

Updated the extra display - press "e" to activate - to include the MAM display for easy reference.

Added measurement hardware info to body of all e-mails send. This makes it much easier to filter between systems in mail rules for venues with multiple systems.

DIN 15905-5 user now have waveform display available for exit calibration as well

Fixed a minor bug in DIN15905-5 version where exit screen would display a wrong calibration value compared to actual value in system - only cosmetics, no impact on measurement data or values in report.

Support for Windows XP no longer possible

New features and improvements in version 2.6.1:

Update to how 10EaZy handles recording of maximum values if program is started during a active concert.

Fixed a minor bug that would prevent the creation of the resume report if an e-mail address was not added

New features and improvements in version 2.6:

- Added **percentile calculation** at end of measurement run. Split percentiles will be available in the logfile for full featured class 1 and 2 systems
- Added Xml shortcut /log.xml to webserver. Complete measurement data may now be reached thru http://local_ip/log.xml
- 10EaZy now remembers if you had RTA, Secondary LAeq or LCEq display turned on at the last program run.
- All files are now signed with both SHA256 and SHA1 to secure seamless functionality moving into 2017 and new Root certificate demands from Microsoft.
- GOOD NEWS! Class 1 and Class 2 users now **receive a nice looking report** ready to print after each

measurement session. Just **remember to add your e-mail** address in the setup screen if you have not done so already.

Features added based on user feedback:

- **Added resume to the logfile e-mails** for full featured class 1 and 2 systems. Upon receiving the measurement logfile via e-mail it is now possible to get a quick resume of the measurement run directly from the content of the e-mail
- Added fixed text to mail resume – this will make it easy to **create a rule in your mail program** of choice to filter for measurements that has a limit violation
- Added the B&W jpeg dump of measurements to the logfile e-mail for both RT and full featured.
- Added possibility to configure usage of own SMTP server for sending logfile mails with no internet connectivity.

New features and improvements in version 2.5:

- 1/1 and 1/3 octave RTA functions added for full feature Class 2 and Class 1 users.
 - RT users may purchase upgrade to full feature version, if RTA is required.
- Possibility to log octave bands to logfiles for both dBA, dBC and dBZ.
- RTA display is optional, logging will be performed even if not displayed.
- Display of loudest instant octave band.
- Possibility of monitoring single octave band and display if limit is exceeded.
- Added support for XML file generation – you can now access all 10EaZy measurement values via xml. This enables users and 3rd party developers to create custom build displays, read outs, webpage services etc. using 10EaZy measurement data as source.

Features added based on user feedback:

- External display now have Fast, Slow and a local FAST hold option. FAST Hold is not stored in log, and is only for monitoring in real time.
- Class 1 and Class 2 systems now send two e-mails, one containing the .log file, and one containing a jpeg dump of the exit screen summarizing measurements, for easy reference.

New features and improvements in version 2.4:

Version 2.4.3 is a minor upgrade:

- Changed to new SMTP server – now using port 2525 or 25
- WHQL driver for windows 8.1 added
- Added support for new hardware used for low-noise measurements

Features added based on user feedback:

Significant upgrade to the graphics of 10EaZy, new Icon set optimized for win 7 and 8.

User interface is now fully scalable and setting from previous program run, will automatically be recalled.

It is now possible to **view or monitor the secondary LAEq and a LCEq limit** on the main user interface.

Indicators are hidden by default to avoid confusion, but can be turned on if required and setup.

Significant **upgrade of the warning dialogs** – the UI is no longer locked by the warnings and they have become more intelligent.

Back Up functionality for all 10EaZy versions - 10EaZy will now store a temp copy of the measurements approx. every 5 minutes - to ensure up to date measurement results in case of power failure.

Window title bar now shows last calibration date when 10EaZy is running.

Class 1 / 2 systems are now capable of **recording the input**, to later on document what the noise source was.

For every 20 seconds, 2 seconds of silence will be inserted into the audio stream to prevent bootleg recording.

Class 1 / 2 systems now automatically stores the log results as JPEG along with the normal minute by minute log files. (Equivalent of pressing "dump to jpeg" button upon exit.

10EaZy now **stores a backup** of any jpeg and log file in a hidden user directory – files may be retrieved from this directory in case of the original file getting lost.

_1 version fixes bug in peak dialog on old hardware.

Bug fixes and overall improvements:

Fixed bug where Peak indicator got too sensitive on some hardware types, especially older systems.

Renewed code signing signature, to keep providing trustworthy and safe software

Added new WHQL driver for windows 8 and below

Optimized power down functionality for even better 'hands off' operation

New features and improvements in version 2.3.1_1:

Fixed a bug for some hardware types - using compensation setup the "actual point" measurement would be incorrect. This error was introduced in 2.3.1, so measurements made with earlier versions are accurate.

New features and improvements in version 2.3.1:

Custom Setup program enables you to create a number of desktop shortcuts to launch 10EaZy with different limit and time settings without the need for entering the setup screen

Changed the exit screen to display Max Leq for the two user defined periods + Max Slow & Fast

Updated driver to enhance performance

Increased accuracy of underrange and peak indicators

Changed bug in "auto update". Some users experienced being informed about updates, when none were available.

New features and improvements in version 2.3:

Added possibility for adding compensation to the measurements, either calculated or measured. This feature is aimed at users who faces sound level limits based on measurements in areas of the venue where it is not possible to have a measurement during show - for instance the Swiss SLV2012.

Added option of starting 10EaZy in full screen on every program run - option is checked at the setup screen
Added Check for automatic updates. Future releases will be announced after program run with the option of downloading the update right away, later or never.

Added option of setting secondary Leq period. Value will be stored to logfile for class 1 systems

Added additional display options - Max Fast, Max Slow, Secondary Leq values both A & C weight

Added additional Max Fast, Slow and Secondary Leq to logfile for class 1 systems

Added automatically Black & White Jpeg dump of logfile for 10EaZy RT systems

New features and improvements in version 2.2.1:

BugFix - on some systems the warning and limit violation dialogs would not display for the first 2 hours of 10EaZy running.

Added Flip SLOW / Leq option

New features and improvements in version 2.2:

10EaZy now starts with the main display selector at the same setting as when the program quit. I.e if program was quit while display was at "slow", this is the display that 10EaZy will start with.

Extra Display - Press "e" to open an additional window with various measurement values

Added automatic LAeq 60 min measurement on top of the user selected Leq period. Value is available during measurement in the main display selector and will be displayed at the exit screen.

Added maximum slow dBA value to the main display selector
Added LAeq60 min to the log file (Class 1 systems only)
Added C - A weighted values to the log file (Class 1 systems only)
Added Maximum Slow dBA values to the log file (Class 1 systems only)
Event logs are now included in the sent e-mail if created during measurement

Experimental implementation of LAeq 1 min values where audience noise is subtracted (Class 1 systems only) This type of measurement has no meaning in the real world as legislation is always based on total contribution, but it is interesting to see the actual contribution of "non electronically reinforced sound" produced at live events.

Previous improvements:

New features and improvements in version 2.1.6:
Fixed issue with new smtp server

New features and improvements in version 2.1.5:
fixed problem with sending e-mails after 10EaZy SMTP server changed
fixed bug in code that would give some users of the demo version a "inf" value in stead of actual measurements.

New features and improvements in version 2.1:
Added functions and drivers for the new 10EaZy SW USB dongle version
Included new and FREE 10EaZy LaunchScheduler utility - start / stop 10EaZy at a regular interval, no user interaction needed - perfect solution for remote monitoring locations, or unmanned day to day measurements.
Updated buttons and controls to match the Win 7 UI better
Fixed a minor bug in DIN15905 version, that would cause "inf" values to be displayed instead of real value
Fixed minor division bug that would influence the Leq for the first minute the program is running.
New and improved run time engine, reduces memory and CPU consumption

New features and improvements in version 2.0:

- Complete rewrite of core programming to accomodate new Win7 compatible hardware

Enhanced performance on all hardware platforms and prolonged battery life
Zoom and enhance functions are now available in the history display and on the exit screen - easily zoom and analyse a specific period of the measurement, even with long histories.
User specific files has been moved outside the 10EaZy program folder and into the users directory to avoid the need for sharing and changing permissions on the 10EaZy program folder

New features and improvements in version 1.8:

- Added web and mobile viewer for easy remote monitoring via web browser or Wlan capable cell phone

Updated values displayed at the exit screen
Added "Event log" - a seperate notepad for adding events during the measurement which is stored together with the log file - dialog is trigger by pressing "space" in any 10EaZy window or dedicated button on user interface
Updated Running order to accomodate more entries and easier editing + storage of running order to file for repeated usage
Updates and minor bugfixes to the DIN Setup (on DIN enabled versions)
It is now possible to edit the DIN setup during the measurement, if pressing "d"
Updated code and features to support the new 10EaZy RT system
Input peaks are now counted and stored to log file + time stamped entries will be added to the event log file

New features and improvements in version 1.7:

- Support for different screen resolutions – as low as 1024 * 600 (EEE-PC size)
- Full screen mode implemented
- User set Leq period C-weight in display selector
- Maximum Leq in measurement period added to bottom of log file
- Maximum Leq has replaced Maximum Fast value at exit screen
- Significant improvements to audio engine for sustained battery life when running mobile solutions
- Minor upgrades to the DIN history display (on DIN enabled versions)
- General optimization of the 10EaZy source code

New features and improvements in version 1.6:

- Implemented C weight Leq values in log file
- Possibility of viewing Leq 1 min values on the screen (A & C weight)
- New and more slick looking warning and violation dialogs
- Counter for time above limit is showed at exit screen, and logged to file.

- Optionally DIN 15905-5 feature set for use in Germany (requires specific hardware)
- Increased efficiency in core code to improve execution on smaller touch panel solutions.
- New and improved start-up routine will prevent running 10EaZy with the wrong sound card, and thus wrong calibration – only useful for multiple 10EaZy system owners.

New features and improvements in version 1.5.5:

- E-mail support added
- Changed format of log file created with "auto name" feature

New features and improvements in version 1.5.1:

- New program Icon
- Changed type'o in warning dialog
- New soundcard validation routine, to assist Vista users.
- Check for adequate user access to 10EaZy program folder
- Check if last known path is valid, to avoid errors if folder no longer exist or if the last known path is not valid to write to for the user.
- Changing from "peak hold" to slow would leave "reset peak dB(C)" button visible – Fixed.
- Changed bug in running order that prevented editing show start time to earlier than initially entered.
- Windows shutdown is now handled to ensure proper termination of program, if user for instance presses the power button on the computer, before terminating 10EaZy.

New features and improvements in version 1.5:

- Enhanced warning dialogs
- Auto start feature – 10EaZy skips setup screen once path to logfile is defined
- New and improved runtime engine
- "flip" function – flips the Leq and Fast display to increase awareness relating to the actual Leq value.

New features and improvements in version 1.1.3:

- Increased stability on slower computers. Users who often experienced DAQ errors will benefit greatly from this
- The 10EaZy hardware is now automatically located even if it is not the default recording device
- Calibration date is kept in file. Default is "factory calibration". If user recalibrates the system, the data of calibration will be kept in file, and displayed at the calibration screen.

New features and improvements in version 1.1:

- Peak C measurements
- Peak C hold function
- Minor improvements to the user interface
- 10Eazy now remembers the path to the most recent logfile folder
- Other minor enhancements of the feature set.