# EasyOne Air Version History

This document lists all EasyOne Air releases.

Some versions have not been distributed or distributed only for selected customers. The changes are cumulative, meaning that changes introduced in previous versions are also included in later versions.

If you are using the EasyOne Connect software together with EasyOne Air, please also make sure that your copy of the EasyOne Connect software is up to date.

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| Version Date | EasyOne Connect compatibility *minimum version required* | Compatible devices *Serial number* | Description |
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| **V1.19.1** | V3.09.05.x | All devices | Changes highlights since 1.19.0:<br>• General improvements:<br>  o Support for Windows 11.<br>  o new parameter FEV1Q<br>  o POST-med. tests:<br>    ▪ support %change calculation after ATS/ERS 2022 recommendations<br>    ▪ show %change for parameter FEV1/FVC<br>  o New predicted sets:<br>    ▪ Bowerman 2023 (Global GLI)<br>    ▪ Koillinen 98 (Pediatrics)<br>  o Device supports Norvegian language.<br>  o USB device connected are powered only whenever used<br>  o No spirometry is possible if power adapter is connected<br>  o new ndd start-up logo and UI background color<br>• Operator's manuals:<br>  o Updated to version 6.<br>• Bug fixes:<br>  o Fix occurrences of "Internal configuration error" message during printing.<br>  o Tests synchronized to EasyOne Connect now display VC and FEV1/VC parameter in EasyOne Connect report.<br>  o Fix crash when opening a report with very long volume-time curves<br>  o Report FEV0.75 and FEV0.75/FVC for children<br>  o SVC: add missing audio cue after 15s expiration for EVC maneuver<br>  o Setting system time to 12pm is now possible<br>  o During recalculation, the correct ethnic correction factor is applied |
| **V1.18.1** | V3.09.04.x | All devices | Changes highlights since 1.18.0:<br>• General improvements:<br>  o Support an alternate humidity sensor<br>• Bug fixes:<br>  o Fix seldom keyboard issue where key is staying permanently pressed. |

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| V1.17.1 | V3.09.02.x | All devices | Changes highlights since 1.17.0:<br>• Spirometry improvements:<br>   o Display parameter ratios (e.g. FEV1/FVC) as decimal fraction, not percentage.<br>   o Fix automatic session end: needs at least 3 trials.<br>   o FVC/FVL: require FET >= 0.75s for children of age between 6 and 7.<br>• Operator's manuals:<br>   o Updated to version 5.<br>• General improvements:<br>   o When strong password policy is active (security menu), no database export without password is possible.<br>   o Improvements for QC tests in production, Bluetooth chip firmware update (1.7.12)<br>   o Support an alternate humidity sensor<br>• Bug fixes:<br>   o Fix device freezes or shutdowns during spirometry workflows.<br>   o Now it is possible to restore the database after 1 failed attempt.<br>   o Fix seldom keyboard issue where key is staying permanently pressed. |
| **V1.18.0**<br>March 2022 | V3.09.03.x | All devices | • Spirometry improvements:<br>   o Support for testing with NDD inline filter (EasyOne filter FT).<br>   o Display parameter ratios (e.g. FEV1/FVC) as decimal fraction, not percentage.<br>   o Fix automatic session end: needs at least 3 trials.<br>   o FVC/FVL: require FET >= 0.75s for children of age between 6 and 7.<br>• Operator's manuals:<br>   o Updated to version 5.<br>• General improvements:<br>   o When strong password policy is active (security menu), no database export without password is possible.<br>   o Improvements for QC tests in production, Bluetooth chip firmware update (1.7.12)<br>• Bug fixes:<br>   o Fix device freezes or shutdowns during spirometry workflows.<br>   o Now it is possible to restore the database after 1 failed attempt. |
| **V1.17.0**<br>November 2021 | V3.09.02.x | All devices | • Spirometry improvements:<br>   o %Predicted for ratio parameters are shown on reports if user selects the option "Show %pred for ratios" in spirometry settings.<br>• On-device operator's manuals:<br>   o Updated to version 4.<br>• Bug fixes:<br>   o Fixed issue with device freezing during flow baseline setting. |

| **V1.16.0**<br>June 2021 | V3.09.00.x | All devices | <ul><li>Spirometry improvements:<ul><li>User can switch between 2005 and 2019 spirometry standard for FVC/FVL test.</li><li>Updated quality grading for SVC test according to 2019 standard.</li><li>Reports now conform to ATS/ERS Spirometry Update 2019 and ATS Recommendation for Standardized PFT Reports 2017.</li><li>Parameter FEV1/VC is now reported, provided that an SVC maneuver was performed within 12-hours prior to the forced maneuver.</li><li>Calibration check: adapted limits for relative expiration and inspiration volume errors to 2.5%.</li><li>Order handling: EOA now provides a warning message at the start of a regular test, if an order is pending for the same patient.</li><li>Tests can now be recalculated to reflect the updated spirometry configurations such as predicted set or interpretation method.</li></ul></li><li>Bug fixes:<ul><li>SVC with long tidal does not print.</li><li>Opening report with no test provokes an exception.</li><li>An unexpected error happens during test recalculation.</li><li>Volume-time predicted range is wrongly displayed on VT graphs.</li></ul></li></ul> |
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| **V1.15.0**<br>July 2020 | V3.07.00.x | All devices | <ul><li>On-device operator's manuals:<ul><li>Updated to version 3.</li><li>Added Russian and Polish translation.</li></ul></li><li>General improvements:<ul><li>Added warning when storage is full.</li><li>Reduced maximum audio output volume.</li></ul></li><li>Bug fix:<ul><li>Unexpected error after deleting a patient belonging to an open order.</li></ul></li></ul> |
| **V1.14.0**<br>March 2020 | V3.07.00.x | Until 1158030 | <ul><li>Additional Language Support<ul><li>Added Polish and Russian software languages.</li><li>Added some missing translations for all languages.</li></ul></li><li>Spirometry improvements<ul><li>Added new predicted set: Kainu (Finland) 2016</li></ul></li><li>Bug Fixes<ul><li>Cannot add any patient on 29 February.</li><li>SVC/MVV: respiration frequency reported in wrong units.</li><li>Pre test label wrong on Pre/Post printouts.</li></ul></li></ul> |

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| **V1.13.0**<br>December 2019 | V3.06.00.23 | Until 1158030 | • Improved cybersecurity<br> o New dedicated security settings menu.<br> o Option in security settings to disable printing to PDF.<br> o Option in security settings to enforce strong password rules.<br> o Modifying date and time now requires admin privilege.<br> o Password is always hidden, with the option to toggle the visibility.<br>• General improvements<br> o Enforce unique user IDs when adding and editing users.<br> o Show user ID, when configured, also on EasyOne Connect report printouts.<br> o Prevent removing the last system administrator.<br> o Rearrange the items in the settings menu for better usability.<br> o Show lightning bolt beside the battery icon whenever the device is connected to a charger, even after it is fully charged. |
| **V1.12.0**<br>July 2019 | V3.04.00.23 | Until 1158030 | • Bug fixes<br> o Predicted value calculation for SEPAR 2013 is wrong when no patient weight is entered.<br> o Patient's height shows 12 inches on printout.<br>• General improvements<br> o Display operator's manuals on the device.<br> o Add or revise some translated texts. |
| **V1.11.0**<br>May 2019 | V3.04.00.23 | Zollner: until 1155419<br>Vario:   until 1120701 | • Bug fixes<br> o Device freezes in world map after selecting region.<br> o Test variability and interpretation are cleared after a recalculation.<br>• General improvements<br> o Option to delete one or several patients and all related test reports.<br> o Option to delete a test session from the session result screen.<br> o Improved detection of very weak FVC/FVL maneuvers.<br> o Device issues a warning if the system date is incorrect.<br> o Improved online screen graph for SVC. |
| **V1.10.2**<br>November 2018 | V3.04.00.23 | - | • Bug fixes<br> o Flow tube detection fails on very few devices.<br><br>• FVC with patient of ethnicity "other" yields wrong predicted values (already fixed in V1.9.1). |
| **V1.10.1**<br>September 2018 | V3.04.00.23 | - | • Additional support for printing to HP printers (PCL3GUI printer language)<br> o Refer to EasyOne Air printing application note online for more details.<br>• Improved useability<br> o Improve FVC/FVL coaching message before expiration maneuver.<br> o Improve robustness of access to internal storage, software update and flow tube detection.<br> o Make software update quicker.<br>• Bug fixes<br> o After a factory reset, set ethnic correction factors and configured predicted to defaults.<br> o Fix calculation of FEF75(MEF75) predicted value for females in predicted set AUSTRIA_94. |

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| **V1.9.1**<br>March 2018 | V3.04.00.23 | - | • Support Provocation/Challenge Tests in combination with EasyOne Connect<br>   o Perform provocation tests with EasyOne Air.<br>   o Supports full provocation functionality of EasyOne Connect including customized provocation tests.<br><br>• Improved connection stability in combination with EasyOne Connect<br>   o Improved stability during online tests.<br>   o Fixed several issues that could lead to Bluetooth disconnections during online tests.<br><br>• Generally improved functionality<br>   o Recalculate the predicted values after changing patient demographics.<br>   o Show progress bar for long operations.<br><br>• Additional Language Support<br>   o Added Swedish software language.<br><br>• General Bug fixes<br>   o Solved several minor issues that lead to system crashes. |
| **V1.8.0**<br>November 2017 | V3.03.00.11 | - | • Additional Language Support<br>   o Added Dutch (NL) software language and Operator's Manual.<br>   o Added Brazilian Portuguese (BR) software language and Operator's Manual.<br>   o General translation improvements.<br><br>• Improved Useabiltiy and Reporting Capabilities<br>   o Improved software update process.<br>   o Better curve visibility with larger online display of VT curves.<br>   o Improved tidal breathing detection.<br>   o Improved layout of thermal printer reports.<br>   o "Lung age" and PEF/PIF in [L/min] are now available on reports.<br>   o Reorganized database and Bluetooth configurations.<br><br>• Improved Bluetooth Connections<br>   o Improvements in Bluetooth for better connection stability.<br><br>• General Improvements and bug fixes<br>   o Fixed an issue where in rare cases the device could not be started.<br>   o Fixed an issue where for large database the device stopped working and had to be restarted.<br>   o Fixed an issue where using the "Garcia-Rio 2013 (SEPAR)" predicted values sometimes caused the device to crash. |

| **V1.7.0**<br>July 2017 | V3.02.00.06 | - | • Improved printer support and data management:<br><br>    ○ Updates can now be applied via EasyOne Connect (V3.02.00.06).<br>    ○ Support for thermal printer TSC ALPHA-4L.<br>    ○ Option to delete patients with no tests.<br>    ○ Option to delete the last trial of a spirometry test.<br><br>• Support of new predicted values and ethnic correction:<br><br>    ○ Manually set ethnic correction for Asian, African, Hispanic ethnicities.<br>    ○ Added predicted values Dejsomritrutai (Thai2000) for Thailand.<br>    ○ Added predicted values Chhabra (2014) for India.<br><br>• Additional language support for software:<br><br>    ○ Added Italian (IT) software language.<br>    ○ Added Danish (DA) software language.<br><br>• Additional Operator's Manual languages:<br><br>    ○ Added Italian (IT) manual<br>    ○ Added Danish (DA) manual<br>    ○ Added Spanish (ES) manual<br>    ○ Added French (FR) manual<br>    ○ Added Swedish (SV) manual |
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| **V1.6.2**<br>May 10, 2017 | n/a | - | Improvements<br>• Improved performance of database operations (e.g. to display test list, synchronization with EasyOne Connect). This fixes a problem when the access gets slower the more data is stored in the device.<br>• Added missing license information.<br>• Language support improved for Spanish, German & French.<br><br>Compatibility<br>• EasyOne Connect >= V3.1.0.1 |

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| **V1.6.1**<br>April 28, 2017<br>(very limited distribution) | n/a | - | Improvements<br>• More effective storage of curves (compression).<br>• OSHA print template.<br>• Print status feedback information.<br>• Language support improved for Spanish, German & French.<br>• Admin authentication added for additional functions (e.g. Factory defaults).<br>• Prefered test type that is shown in the main menu is now configurable(preset: FVC).<br>• Added link to Open Source licenses.<br><br>Bug fixes<br>• Restore functionality did not work.<br>• Large databases (> 500 patients) did cause a crash.<br>• Device hangs when Australia was selected in the region selection.<br>• Device hangs when the date & time has been confirmed very quickly (< 1s) in the first time startup wizard.<br><br>Compatibility<br>• EasyOne Connect >= V3.1.0.1 |
| **V1.6.0**<br>March 16, 2017<br>(only selected customers) | n/a | - | First official distributed release for selected customers<br><br>Compatibility<br>• EasyOne Connect V3.0.0.3. |