

TECAM SMART SOFTWARE

Changelog

30. Mar. 2022:

Tecam Smart V7.07.3

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatron X Family V1.03.51***
- ***Coatron M , all versions***

List of modifications:

- Patient information (Name, Sex,..) is requested automatically from LIS for each new result, if TECAM is connected to an bidirectional ASTM-Server.
- Receiving double results, saving to database and forwarding to LIS is improved.
- New field “LOT” added to database. This allows to trace back each result to lot-number of reagent and its calibration data.
- Minor fixes

26. Jul. 2021:

Tecam Smart V7.07.2

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatron X Family V1.03.51***
- ***Coatron M , all versions***

List of modifications:

- Support of two instruments. (start app twice and use splitscreen function of Windows).
- Results were reported falsely as zero “0” with some regional Windows settings for text, date and numbers. This interoperability problem is removed now.

23. Dec. 2020:

Tecam Smart V7.07.1

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatron X Family V1.03.51***
- ***Coatron M , all versions***

List of modifications:

- Sometimes the reaction curve was not received from instrument or displayed with wrong scale. Fixed now.
- Mirror print data from instruments were sometimes missed or not completely displayed. Fixed.

27. Nov. 2019:

Tecam Smart V7.07.0

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatron X Family V1.02.49***
- ***Coatron M , all versions***

List of modifications:

- RS232 communication is now saved in a logfile (see menu Help\LOG RS232)
- RS232 transmission errors are now handled with a checksum calculation
- Minor fixes

27. May. 2019:

Tecam Smart V7.06.0

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatron X Family V1.02.47***
- ***Coatron M , all versions***

List of modifications:

- Coatron results are displayed now with 3 columns for all units (sec, % , INR) within the single result table
- Receive, visualize and manage calibration curves from instrument with database
- Minor fixes versus compatibility problems with older version of Coatron M and X version

20. Apr. 2018:**Tecam Smart V7.05**

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatronic X Family V1.01.43***
- ***Coatronic M , all versions***

List of modifications:

- QR code library is not correct registered into Windows. Fix now.,

21. Feb. 2018:**Tecam Smart V7.04**

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatronic X Family V1.01.41***
- ***Coatronic M , all versions***

List of modifications:

- New style of Icons
- New TECO ticket system is supported. The ticket systems allows to creates tickets for cuvettes, rinse or service reset
- T-Corr setting is now received from Coatronic-X and reaction curves are displayed accordingly

4. Aug. 2017:**Tecam Smart V7.02**

supported Windows versions: Windows 7/8/10 32+64Bit version

Recommended analyzer firmware:

- ***Coatronic M , all versions***
- ***Coatronic X Family V1.0.37***

List of modifications:

- New menu Worklist\View Graph. Click on results with right mouse and select "view graph". Tecam will show than the reaction curve of is graph

26. Feb. 2015:

Tecam Smart V6.02

tested for Windows 7 or higher (32 + 64 Bit versions)

List of modifications:

- Complete new design and user interface. TECAM is now much easier and userfriendly and faster.
- Works with mouse+keyboard as well as with touchscreen.
- Helpfile updated
- Minor fixes

Compability Information:

This TECAM Smart can be installed over all older versions. No license upgrade is required.

Ask local distributor for more information or visit [TECO website](#)

3. Dec. 2013:

Tecam Smart V5.28

tested for Windows XP / VISTA / 7 / 8 (32 + 64 Bit versions)

List of modifications:

- Support for Windows 8 operation system
- Support of Windows 64 Bit.
- Touchscreen Support
- Input of QC range improved. With older fimware , the field must be separated with TAB. If customer replace the TAB with blanks, then database error can happen. Now TECAM accepts also blanks as dilimiter.
- The font size can be setup for patient and database reports.
- Change of normal test range is now possible in database menu. A manual switch to options menu is not required anymore.

Ask local distributor for more information of firmware modification or visit [TECO website](#)

24. Jul. 2012:

Tecam Smart V5.02

for Windows XP / VISTA / 7

- Support of Windows 64 Bit
- Autoconnect after program start
- Autoprint option. If activated, then all incoming results are automatically save, send to host and printed.
- New menu "HELP/Check analyser": System information can be received from analyser (only Coatron A6)

Ask local distributor for more information of firmware modification or visit [TECO website](http://TECOwebsite)

14. Nov. 2011:

Tecam Smart V5.01

for Windows 32Bit 2000 / XP / VISTA / 7

- Database can now be accessed during online communication with instrument
- Receive of mean values
- Modified results reports
- Database
 - Field "Patient Name" extended from 32 to 40 characters. Family and forename are still divided by "," . To ensure ASTM compability just the first 12|16 characters of fore|familyname are transmitted to LIS.
 - Field "Sex" extended from 1 to 4 characters . To ensure ASTM compability just the first character is transmitted to LIS.
 - Field "Department" extended from 4 to 10 characters. To ensure ASTM compability just the first 4 characters are transmitted to LIS.
 - New time filters for more variable dates and periods
 - New filter for "New results". This filter is activated automatically, when open the data base. New results will loose the status "New", when they were printed first time.
- Bugfixes
 - Unicode problems resolved.
 - Input Cursor is now blinking within filterbar of datagrid
 - QC-ranges were false calculated , if TECAM is installed on unicode Systems like turkey, china, greek.
 - ASTM communication reactivated for TECAM SMART license

9. Sep. 2010:

Tecam Smart V4.92

for Windows 2000 / XP / VISTA / 7

Minor bugfixes

- QC-Autofilter (function key F6) did not work correctly for large database
- QC-ranges of test "FIB" was confused with test "DFIB".

12. May. 2010:

Tecam Smart V4.91

for Windows 2000 / XP / VISTA / 7

- Coatron M2/M4 auto detection. Comm port and baudrate is set automatically

Removing of minor bugs

- menu options/methods was sometimes not loaded - fixed.
- Last result was not displayed in the result database - fixed.
- Entry of Date and Time Filters caused SQL errors - fixed
- Flags (Error or Warning) for zero results were not displayed correctly - fixed

1. Jan. 2010:

Tecam Smart V4.90

for Windows 2000/XP/VISTA/Window 7

- Cumulative report included. New results from analyser are sorted by patient, saved to database, sent to host , printed and removed from screen with one click.
- Data report improved
 - One line per unit (sec, %,...)
 - Selectable units: The units are selected with the range definition of test method or QC file.
Example: If you just want to report D-Dimer with ng/mL then goto menu "OPTIONS\Method" and input the normal range of DD in ng/mL.
For controls it is simular. Instead of menu "Options\method" goto database\patient and set specific unit to 0 for blending out.
 - Data report is always sorted automatically to Patient, Test, Date, Time
 - Report Headlines can be blend out by setting "Title" to blank .
Same with picture.
- HOST interface support now RS232 communication (with and without handshake)
- QC-autofilter improved: By new filter menu or Double click on specific results within data management. Example: you would like to create to statistic of current QC results. -> Goto database , set cursor to recent QC result and press key "F6".
- Default files of TEControl A,N are updated
- Entry of new patient information (name, birth,..) is now always within own dialogue frame.
- The Patient information dialogue will open , if unknow patient are received from analyser. This feature can be suppressed by checking "use patient information from host" within options menu "Communication".
- Database shows always last entry on first row
- Change records/results must be explicetely allowed within options menu even for the administrator.
- Report options are available now also in main menu "Options".
- Improved stability of communication to Host and instrument
- Removing of minor bugs

12. Mar 2009:

TECAM SMART V4.75

for Windows 2000/XP/VISTA

- New color design and autoscale for wide screen monitors.
- Language portuguese included
- QC/Statistic AutoFilter is set (PID,Name,Test and last 30 periods) when double click on specific result within datagrid.
- The Westgard Analysis switch automatically to correct unit if required (eg. Unit is set "INR" , but current data do not obtain INR results, but only seconds)

15. Sep 2008:

TECAM SMART V4.73

for Windows 2000/XP/VISTA

- XP-Look and feel
- ASTM modul integrated

TECAM can now communicate over TCP/IP with a LIS (laboratory information system).

The data are sent according to communication standard ASTM E1381 & E1394-97.

If the host supports already a Stago STA-R driver, it can be used without any modification.

The communication supports
- Send results from TECAM to LIS

The communication does not supports any requests from LIS !

- Extended QC management for lot.-specific control plasma analysis:

The database allows now to define inlimited QC samples including the control-ranges for any tests.If the QC rule is set , then the qc-ranges are displayed in the Levey-Jenning diagram as red lines. The QC analysis returns the status 'failed' in case that the mean value of QC serie is out of range.

- Improved handling with reference ranges:

A test specific reference range can be defined within the options menu for every method. If incoming results are out of this range, then they are marked with the flag 'A'. The range can be defined for 3 units (eg. sec , % and INR) individually.

- Auto Flagging of result:

Every incoming result is checked for QC or normal ranges and flagged as followed.

- 'C' result is from control plasma.
- 'Q' control is out of range. The result is also marked with red color.
- 'A' result is from patient and abnormal.The result is also marked with blue color.

- Save and send result automatically (ASTM Autosend):

If this option is set in the optionsmenu , then every incoming result is automatically and immediately forward to the host and database.

- Easy Zoom:
Simply click on the +/- at the chart's axis. In the context menu the "Autozoom" can be (un)set.
A press on keys cause following action:
- key "1/2": Zoom Y
- key "3/4": Zoom X
- key "5": Autozoom
- TECMONI V2.90 included: (requires analyser firmware 1.04.02 or higher)
Tecmoni is a nice addin for extended curve analysis. It allows to see all 4 channels simultaneously and in realtime.
- Language option. Goto to Options and select the language file. If your language is not included, simply copy "english.ini" as eg. spanish.ini and translate the entries to spanish. Please send a copy to tecam@log10.de .
- A picture can be included into the data-report.
- Search record with &,| (and,or) delimiters within the filterbar.

Example: You would like to report all PT,APTT,FIB results of patient "1234" of the last 3 monthes

set filter as followed:

date = ">2/2007 & <6/2007" -> select march , april and may
name = "=1234" -> select all records equal to name ("1234" should search for simular names !)
test = "PT|AP|FI" -> all test beginning with PT or AP or FI

- New datafield "Room" (6char) and "Department" (4char) for patient information. Older database are automatically reorganized.

15. Mar. 2007:

TecamSmart V3.621

- freeware for single channel instruments
- licence linked to serial number of instruments
- Actual firmware for Teco instruments
 - Coatron M2 1.14c
 - Coatron M4 1.10c
 - Techrom IV 1.21
 - Dimex 1.11b

Find more information new firmwares under www.teco-gmbh.com

15. Mar. 2007:

TecamSmart V3.620

- New setup and update module for Windows Vista
- Actual firmware for Teco instruments
 - Coatron M2 1.14c
 - Coatron M4 1.10b
 - Techrom IV 1.21
 - Dimex 1.11b

15. Mar. 2007:

TecamSmart V3.619

- Bugfix for RS232 communication error with Coatron M1 and Dimex Jr. Systems.

5. Dec. 2006:

TecamSmart V3.618

- **Tecmoni integrated**

TECMONI is a tool to receive, save or analyse optical reaction curves from analyser and also send back them to analyser. Therefore it is perfect for false result debugging at customer sites or also for research and development. The tool can be started within the Extra menu.

- **Firmware Update module integrated**

Easy update for 2/4 channel instruments. Start update within Option's menu.

Supported instruments :

- Coatron M2 V1.14 470nm
- Coatron M2 C1.14 400nm
- Coatron M4 V1.09 470nm
- Coatron M4 C1.09 400nm
- Dimex V1.11b
- Techrom IV 1.20c

7. Nov. 2006:

TecamSmart V3.617

- **New Report options:**
 - 5 individual headlines + 2 Footline + Font + Aligment
 - New page per patient (single patient report)
 - New page per date (day reports)
- Result ranges are now supported for each test.
- DB-menu "Replace & Fill" supports now also filtered records
- New time filter preset "00:00-12:00" and "12:00-24:00"

19. Sep, 2006:

Tecam Smart V3.516

- New registration modul
- New time filter preset for 60 d, 90d or last 30 periods
- Results can be added offline
- Statistic modul with Westgard Multirules and Levey Jennings chart

2. Nov, 2005:

Tecam Smart V3.011

First official release version.

supported instruments

- Coatron M1 1.13 & 1.14 (results, no reaction curves)
- Coatron M1 1.18 (results + reaction curves)
- Dimex Jr. 1.07 (results + reaction curves)
- Coatron M2 1.10 (results, no reaction curves)
- Coatron M2 1.13b (results + reaction curves)
- Coatron M4 1.05 (results, no reaction curves)
- Coatron M4 1.08b (results + reaction curves)
- Techrom IV 1.20 (results + reaction curves)

Following Features are integrated:

- Unidirectional communication interface to receive results including their optical reaction curves.
- Result management
- Patient management
- Statistical analyse
- very flexible filter and sorting functions
- Data reporting (ie. make report of patient xyz of all PT within the last 30 days)
- Export data , grids , charts or report to PDF, XLS, TXT or HTML file
- password protection for database operation
- HTML Help
- Online Update
- HTML Help

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