

FAST EnergyCam Release Notes

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History

Date	Author	Version	Changes
07 th Aug 13	SPR	1.0	Initial
08 th Aug 13	SPR	1.1	Added #313 and #331 as fixed in build 9260
09 th Oct 13	FBL	1.2	Added Build 10064 (Beta 9)
05 th Nov 13	FBL	1.3	Added Build 10273 (Beta 10)
04 th Dec 13	FBL	1.4	Added Build 10565 (Beta 11)
05 th Jan 14	FBL	1.5	Added Build 11232 (Beta 12)
07 th Mar 14	FBL	1.6	Added Build 11452 (Beta 13)
17 th Mar 14	SPR	1.7	Cosmetic
08 th Apr 14	FBL	1.8	Added Build 11767 (Beta 14)
09 th May 14	FBL	1.9	Added Build 12057 (Beta 15)
13 th Jun 14	FBL	2.0	Added Build 12441 (Beta 16)
04 th Aug 14	FBL	2.1	Added Build 12890 (Beta 17)
07 th Oct 14	FBL	2.2	Added Build 13269 (Beta 18)
04 th Dec 14	FBL	2.3	Added Build 13693 (Beta 19)
18 th Mar 15	FBL	2.4	Added Build 14201 (Beta 20)
16 th Jun 15	FBL	2.5	Added Build 14772 (Beta 21)
15 th Dec 15	FBL	2.6	Added Build 16108 (Beta 22)
15 th Feb 16	FBL	2.7	Added Build 16403 (Beta 23)
21 st Apr 16	FBL	2.8	Added Build 16962 (Beta 24)
27 th Sep 16	FBL	2.9	Added Build 17435 (Beta 25)
03 rd Feb 17	FBL	3.0	Added Build 17457 (Beta 26)

Table 1: History

Releases prior to build 9260 are not covered by this document.

Build 9260 (Beta 7)

Release Date: 4th Jul 2013

Changes

- Added functions to EnergyCam's device button menu:
- Display of selected reading period on LCD (e.g. "P 15" when reading every 15 minutes) when triggering a reading by button
- Optional Wireless M-Bus installation (gateway registration) before installation of EnergyCam on meter
- Optional reset to default configuration "Modbus with 115200 baud" or "M-Bus with 2400 baud" by button
- Enhanced OCR-assisted installation of EnergyCam on gas meters
- Documentation of software update for EnergyCam Cable

Fixes

- #313 EC: Button installation sometimes switches into Mode without LCD feedback
- #331 ECWin: timeout too short for automatic wMBus installation (EC succeeds, but ECWin thrown timeout)

Known Bugs

- #392 Any meter value larger than 299999 is wrong (wired M-Bus only)
- #393 Does not recognize an external M-Bus Interface when M-Bus lines are not powered. Then battery mode is entered until power-cycle. M-Bus does not work then.
- #394 Power consumption higher than needed when taking photo for regular reading
- #396 Setting M-BUS slave address higher than 127 not possible

Build 9534 (Beta 8)

Release Date: 5th Aug 2013

Changes

- EC: Display decimal point during Installation if decimal point is enabled
- EC: Extended configuration of slave addresses: Modbus 1..247; M-Bus 0..250
- EC: Wakeup for M-Bus possible (Make sure that this option is OFF for legacy M-Bus devices!)
- ECWin: Advanced search config (allows to search for any, but dedicated slave Address). Speeds up connection when slave's config is known.
- ECWin: guarantees a 1 ms thread timer resolution needed by Modbus/M-Bus driver
- ECCollectorWin: works with IMST IM871A-USB Stick

Fixes

- #392
- #393
- #394
- #396

Known Bugs

- None

Build 10064 (Beta 9)

Release Date: 9th Oct 2013

Changes

- ECWin: Added Help Button to ECWin; pdf is renamed to EnergyCam_Manual
- ECWin: Enable/disable "Auto Powerdown" for M-Bus
- EC: Enhanced Info sequence with Button menu
- EC: Modbus: Added config for parity and stopbit
- EC: Improved OCR library

Fixes

- #418 EC: Logic for counter overflow from 9999X to 00001

Known Bugs

- None

Build 10273 (Beta 10)

Release Date: 5th Nov 2013

Changes

- EC: Make automatic wM-Bus installation more energy efficient
- ECWin: Change layout of device config
- ECWin: Reading Intervall now follows device

Build 10565 (Beta 11)

Release Date: 4th Dec 2013

Changes

- OCR: Support of bulk water meters with black on white digits
- OCR: Enhanced reading accuracy in case of poor image quality through repeated reading
- ECWin: Improved display of EnergyCamWin SW on small screens

Fixes

- #364 EC: Make automatic wM-Bus installation more energy efficient

Known Bugs

- #625 ECWin: Firmware Update of Builds < 9045 not possible (fixed in Patch A, released 12th Dec 2013).

Build 11232 (Beta 12)

Release Date: 5th Jan 2014

Changes

- OCR: Auto install after power cut of EnergyCam Cable device
- RF: New wM-Bus Stack with OMS functionality and increased ERP (effective radiated power)
- RF: The wM-Bus packet format has been changed to ensure higher security with encryption. The wM-BUS Mode OMS V2 is now supported
- EC: Added user feedback on LCD during wM-BUS Installation with SND_IR
- OCR: Support of one additional black on white water meter
- ECWin: Integration of end user license agreement
- ECWin: German localization of EnergyCamWin software and manual.

Fixes

- #694 OCR: Solved installation Issue with L&G Meter MM2600J

Known Bugs

- None.

Build 11452 (Beta 13)

Release Date: 7th Mar 2014

Changes

- EC: Configuration of the EnergyCam device is now possible with M-Bus protocol
- EC: EnergyCam device shows menu upside down if installed upside down
- ECWin: ECWin shows estimated firmware update time

Build 11767 (Beta 14)

Release Date: 8th Apr 2014

Changes

- EC: Option to set the number of digits to install the EnergyCam on meters without red marked decimal digits
- EC: Option to configure decrement, and max increment per hour
- OCR: Improved error correction

Fixes

- #738 OCR: Install issue with EnergyCam positioned in the middle of gas meter display
- #862 M-Bus: ActionPowerDown command has no effect via M-Bus
- #897 ECWIN: Possible timeout in communication with EnergyCam during installation on meter

Known Bugs

- #944 EC: EC sometimes doesn't boot when powered with external battery (fixed in Patch C, released 17th Apr 2014).

Build 12057 (Beta 15)

Release Date: 9th May 2014

Changes

- ECCollectorWin: Supports now the wireless M-Bus stick AMBER 8465
- EC: The duration of the device info sequence is now 5 seconds
- OCR: Improved decimal detection on meters with 6 digits
- The FTDI drivers are now part of the download package

Fixes

- #945 ECWin: For the checkbox "Log to BMP" a valid path has to be defined before
- #948 ECWin: Keeps Firmware update running even when ECWin is closed
- #957 ECWin hangs after disconnect
- #973 EC: Action via Button --4-- removed

Build 12441 (Beta 16)

Release Date: 13th June 2014

Changes

- EC: Software option Data Logger: Save the meter readings in the internal device memory and as CSV file on the PC
- EC: Additional status informationen via M-Bus/wM-Bus (Low Bat, Value during Error Stat)

Fixes

- #1034 EC: Auto install after power down of EnergyCam Cable reports an error if the device was removed from the meter
- #1035 EC: The Modbus registers can now be read as block

Build 12890 (Beta 17)

Release Date: 04th August 2014

Changes

- EC: Additional reading intervals to configure: 1 minute, 30 minutes, 60 minutes

- EC: Additional increments per hour to configure: 44 kW/h, 70 kW/h, 100 m³/h
- EC: Enhanced support of meters with coloured bars between counter disks
- EC: Time synchronized readings in Data Logger mode

Build 13269 (Beta 18)

Release Date: 7th October 2014

Changes

- #805 ECWin: When changing from MBus to Modbus, baud rate can now be selected simultaneously
- #1192 ECWin: Baud rate and protocol now can be changed for quick updates, even when firmware is deprecated
- #1254 ECWin: Warning, if saving of bitmaps takes a lot of time with selected baud rate
- #1253 ECWin: Additional informations in config dialog, reset to defaults possible
- #1033 EC: Improved OCR algorithm for some black-on-white meters
- #1241 EC: Button info sequence shows selected font now

Fixes

- #1183 EC: Autoinstall reports last value even if device is removed
- #1269 EC: Pressing "OCR install" in ECWin during a device triggered install (button or autoinstall) "kills" EnergyCam

Build 13693 (Beta 19)

Release Date: 4th December 2014

Changes

- #1061 EC: Support of HZ5 Oilmeter
- #1385 EC: Support of Badger Watermeter
- #1366 ECCollectorWin: Support of Amber 8665-M stick
- #1321 The internal date and time is shown in the info sequence of the EnergyCam Data Logger
- #1325 Additional Data Logger CSV format (www.energiesparkonto.de)
- #1295 ECWin: The used serial port is released with AutoConnect/Disconnect
- #1288 ECWin: Display of serial ports that are not available in the event viewer
- #1386 Manual installation: The OCR window can be reduced to skip disturbing characters on the left and right side of the meter reading

Fixes

- #1390 LED-Display shows an error during the automatic installation if EnergyCam was removed from the meter
- #1342 Improved upside down installation with black on white fonts

Build 14201 (Beta 20)

Release Date: 18th March 2015

Changes

- #1327 Additional supported media types: oil, generic meter
- #1431 EC: Automatic installation after boot routine available for battery operation mode
- #1435 EC: Termination of automatic installation after boot routine possible within 30 seconds by pressing the device button
- #1438 ECWin: The search for EnergyCam devices can be stopped
- #1440 EC Data Logger: Manually triggered readings can be skipped when saving the data to a CSV file

Fixes

- #1446, #1539 EC: Possible errors at automatic installation
- #1514 ECWin: Estimated time for firmware updates over M-Bus wrong

Build 14772 (Beta 21)

Release Date: 16th June 2015

Changes

- #938 EC: Secondary M-Bus address can be changed via Modbus
- #1451 EC: Sensus Meistream bulk water meter is now supported
- #1547 EC: Additional Modbus registers for 64 bit access of OCR value incl. decimal place
- #1556 EC: Additional max increment values for electricity, gas and water
- #1440 EC Consistency check on max increments can be disabled

Fixes

- #1521 EC: In certain circumstances EC gets stuck during OCR
- #1606 EC: Images sometimes too bright when using font "Black on White"

Build 16108 (Beta 22)

Release Date: 15th December 2015

Changes

- EC, ECWin: Support für EnergyCam 2.0
- #1753 EC: Display meter readings on LCD with command triggered readings

Fixes

- #1586 EC: Captured images sometimes completely white
- #1689 ECWin: Crash caused by long logfile names
- #1729 EC: Fix on M-Bus scan with secondary address

Build 16403 (Beta 23)

Release Date: 15th February 2016

Changes

- #1938, #1939 EC 2.0: Improved recognition of decimal digits
- #1950 ECWin: Current configuration can be saved as XML file

Fixes

- #1975, #1976 EC: Wrong decimal digits with manual installation 6.2, no decimal digit with manual installation 7.1
- #1980 ECWin: Manual installation with more than 8 digits could be selected

Known Bugs

- #1242, 1243 EC: In rare occasions wrong OCR transmission (M-Bus, wM-Bus) on 7.1 digit meters (fixed in Patch A, released 30th March 2016).

Build 16962 (Beta 24)

Release Date: 15th April 2016

Changes

- #1979 OCR: Improved OCR tolerance on meters with partially covered digits

Fixes

- #2042 EC 2.0: Wrong data in Modbus register RESULTOCRINT64
- #2043 EC 2.0: Wrong wM-Bus data on meters with 7.1 digits
- #2066 EC 2.0: OCR installation with manual configuration for 5.1 digits results in 5.3 value

Build 17435 (Beta 25)

Release Date: 27th September 2016

Changes

- #2108 ECWin: Additional configuration mode if the first digit is partially covered (just for EC 2.0)
- #2151 EC: The meter value at the end of installation is now shown for 5 seconds
- #2102, 2158, 2159 QSC: Additional configuration possibilities

Fixes

- #2058 OCR: Manual installation 6.2 returns 8.0 in some cases
- #2087 OCR: Disabling the max. increment check didn't work for value changes > 255

Build 17457 (Beta 26)

Release Date: 03rd February 2017

Changes

- #2160 ECWin: Additional meter type: Several digits not completely visible (just for EC 2.0)