# FAST EnergyCam Release Notes

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History

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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 Interval 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](http://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 ECWin: Crash caused by long logfile names

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)