Change Notes / Release Notes:

2026-10-01: ASI16 V24 Imager SW & CMS-CRM GUI & ASI16-Installer-V24 MAJOR FEATURE RELEASE and MAINTENANCE RELEASE.

I**MPORTANT:** This release requires the new latest "asi16-installer-v24_2610010.exe".
IMPORTANT: Before (!) installing, carefully check and eventually change CMS-CRM.
NOTICE: New CMS-CRM design requires CAREFUL re-check of all parameters!
NOTICE: Transfer from old to new CRM may have erroneously changed settings!

NEW: CMS-CRM: New layout with tabs (Overview/General, Imagers, Network, Software, Parameters, FCS-26, Logs); "Template Use" per group; FCS-26 mask editor. New CRM-internal database engine and new DB structure, to improve overall performance, response time, and ease future upgrades for new features to come.

NEW: ASI GUI: "FCS-26 FindClouds Simple" cloudiness evaluation on the imager.
NEW: ASI GUI: Home page shows "FCS-26 Cloudiness" live evaluation data.
NEW: ASI GUI + CRM: Modbus-TCP interface, numeric sensor data for PLC/SCADA.
IMP: ASI GUI: System > Service split into Maintenance / Imaging / Network / Others.

NEW: ASI16-Installer: "PeriCont/Com Interface Status" + "Re-enable PeriCont/Com IF".
NEW: ASI16-Installer: Check for mistakenly "Fixed IP" setting, and allow to keep.

FIX: CRM, ASI, Installer: Multiple minor stability fixes and performance improvements.

2026-02-06: ASI16 V24 Imager Software - FEATURE & MAINTENANCE RELEASE.

NEW: ASI GUI: Camera Calibration; Added Exposure-Level and WDR param. settings.
IMP: ASI SW: Improved recovery after client S/FTP server connectivity issues.
IMP: ASI SW: Automated re-boot after as sequence of multiple (3) snapshot failures.
FIX: ASI SW: Issues when using special versions of SFTP SSH key authorization.
IMP: ASI16-Installer_V24:Minor improvements for work in non-stable environments.
IMP: ASI16-Installer_V24: Added set of additional ASI-SN identifiers
IMP: CMS-CRM: Improved configuration options for newly added parameters.
FIX: CMS-CRM: Database issues when adding or transferring clients or imagers.

2025-07-07: ASI16 V24 Imager Software - FEATURE & MAINTENANCE RELEASE.

I**MPORTANT:** This release requires the new latest "asi16-installer-v24_2507070.exe".
IMPORTANT: This release includes changes and new added functions in CMS-CRM

NEW: Multiple additional features for "Automated System Maintenance" (CRM/ASI).
NEW: Watchdog to trigger automated power-off/on cycle upon ASI firmware hang-up.
NEW: Support for add. customized "Imaging Parameter" configuration set (CRM/ASI).
NEW: "WDR processing" parameters now allowed to be modified by clients (CRM).
NEW: JPG EXIF data: Additional new data fields and update of existing fields (ASI).

IMP: Check and - if needed - update "PeriCont" parameters after each V-string (ASI).
IMP: PeriCont parameter request ("?" command) now sent out more regularly (ASI),

IMP: Forced ad-hoc "PeriData.cvs" upload before Auto-Power-Off/On sequence (ASI).
IMP: Peripheral "Advanced Settings" available with any PeriCont firmware version.

FIX: Issue when setting/using 2nd FTP as SFTP server with SSH key encryption.
FIX: Wrong permissions when setting a new defined ASI user as "Viewer only"
FIX: Sometimes irregular PeriCont reboots caused by non-defined TTY output.

IMP ASI-Installer: Now blocks any attempt to install on V16/V20 version cameras.
IMP ASI-Installer: Blocks attempts to install a non-valid (non-authorized) package.
IMP ASI-Installer: Tries to detect irregularities in advance, to stop installation asap.

2025-05-01: ASI16_V24 Imager Software - Maintenance Release - IMPORTANT.

COMMENT: All fixed issues did NOT affect primary functions with standard settings.
Issues where related secondary functions and/or special settings, only.

NEW: Peripheral: Button to instantly requests PeriCont parameter download/check.
NEW: Peripheral: Timer config for automated PeriCont parameter download/check.
NEW: Peripheral: “Save” function now can be triggered without making any changes.
NEW: Non-public access to extended system log. - For use by CMS-Support, only!

IMP: Service: ETH Adapter check/log supports all combinations of “Dual-FTP” feature.
IMP: Service: ETH Adapter log records permanently, independent of any other setting.
IMP: Service: Life-Data config changed from "Interval" to "Status: enabled/disabled".
IMP: ASI16-Installer: Upon "Full Rest" CF-status check, and run CF-format if needed.

FIX: Site/Time-Config: Sometimes, some local time sync changes could not be stored.
FIX: Capture/Shooting: Sometimes, shooting local config changes could not be stored.
FIX: Storage/Server: Sometimes, changes related to “Dual-FTP” could not be stored.
FIX: Backup Mem: Sometimes, when using Dual-FTP, auto-backup never got activated.
FIX: Backup Mem: Sometimes, backup of 1st JPG of a new day delayed by indef. time.
FIX: Backup Mem: Sometimes, auto-delete was triggered without real and urgent need.

2025-02-24: ASI16-Installer_250224, to replace previous versions. >>>

IMP: New "Full Reset" technology, to increase update speed and update stability.
IMP: New maintenance functions for "Backup Memory" and "Fixed-IP" issues.
IMP: Web-GUI update/re-install now also possible via "Config/Data Update".

FIX: Sometimes random hang-up during multiple "Full-Reset" runs.

2024-11-08: ASI SW "v241108n", ASI16-Installer_241108. >>>

!!!-!!! New "ASI16-Installer_v24" replaces previous "ASI-Manager" and "Support.exe".
New "ASI-Software" can be installed by using latest "ASI16-Installer_V24", only!
Previous "ASI-Managers" will NOT work to update any newer "ASI Software"!
New "ASI16-Installer_v24" also replaces previous "ASI_DHCP_Fix-It.jar" tool.

IMP: Live data cloudiness values displayed with one decimal place only.

FIX: Sometimes login to ASI GUI has required multiple (>5) tries to enter password.
FIX: Time configuration, interval setting lost after having switched to "Manual Time".
FIX: Time configuration, time was synchronized with NTP server even if deactivated.
FIX: Old "life date" remain displayed in GUI even if "life data" function was disabled.
FIX: Sometimes shooting hang-up or GUI block after running for multiple (5-30) days.

FIX: Wrong internal link for CMS/Agent logo in Web-GUI.
FIX: Manuel reset of FTP connection did not work as should.

FIX: Sometime changes in local ASI settings (capture, locale, ...) cannot be stored.
Sometimes shooting and FTP upload did not run, esp. after parameter change.

2024-05-31: ASI SW "v240531n". >>>

NEW: GUI-Home: Cloud Analysis (CMS FCT) – Display of real-time analysis data.
See § 7.5, page 39.

NEW: Additional Capture/Shooting Template - Intervals: A= 5 Min., and B= 1 Min.
See § 7.9.2, page 44.

NEW: Remote access for ASI-16 V24 via CMS "REM" (VPN) encrypted tunnel.
See § 7.13, page 48.

IMP: Improved Peripheral Controller support for EKO MS-40S Pyranometers.
ASI SW, ASI16-Installer, CRM: Multiple minor improvements and fixes.