CleverScan Software Release Notes

Version 1.2.9 released on 2018/07/06

Changes

- ⊕ Support for DXF (position, rotation etc.)
- ⊕ DXF - Automatic calculations of center of the cover
- ⊕ C++17 migration
- ⊕ Bug with rectangular manhole visualization has been fixed
- ⊕ Pictures encryption is supported
- ⊕ License agreement has been added
- ⊕ x3d browser protocol has been added
- ⊕ Observation list has been added
- ⊕ Minimum value for strobe has been added
- ⊕ Notes for scan have been added
- ⊕ Images verification step has been added
- ⊕ Custom depth level has been added
- ⊕ Application stability has been improved
- ⊕ Fixed bug with hanging event loop during interface release
- ⊕ Synchronization is applied only for single observation to VX
- ⊕ Polish translations has been added
- ⊕ **Disabled clock and depth reference change from VX to avoid loss of data cohesion**
- ⊕ Enable communication with VX in light viewer mode
- ⊕ Camera versioning has been implemented
- ⊕ Side view in observation is sending to VX without additional markers

Known Issues

- ⚠ Some cameras are showing some strange artifacts during first startup.
- ⚠ Synchro0nization between Vx needs to be improved (**clock reference**)
- ⚠ Synchronization between Vx needs to be improved
- ⚠ Quality of side view needs to be improved
- ⚠ Aspect ratio for side view needs to be applied
- ⚠ General GUI needs to be more intuitive

Version 1.1.3 released on 2018/03/28

Changes

- ⊕ Warning about invalid application directory
- ⊕ Default clock reference (center position) is customizable
- ⊕ Video recording stops at the end of the scan (bottom of the manhole)
- ⊕ Lateral autodetection is optional
- ⊕ Auto-detected laterals can be accepted, edited or discarded (buttons are displayed next to the lateral on the Side View)
- ⊕ CleverScan position in DXF file is marked
- ⊕ Manual scanning mode
- ⊕ Send feedback does not fail silently

- ✚ UI rearranged (low resolutions compatibility)
- ✚ Application does not crash during quick project changes
- ✚ Context menu improvements (always displayed for selected item)
- ✚ External images gallery
- ✚ Project gallery
- ✚ Rectangular manholes processing improvement
- ✚ Camera positioner is animated
- ✚ Measurements for manually created laterals are recalculated on measurement system change
- ✚ Updates are available on demand (also unstable updates can be installed)
- ✚ Release notes can be shown in the application
- ✚ Images transfered to VX are properly aligned
- ✚ Observations selection improvements

Known Issues

- ⚠ Auto gain has not been tested properly
- ⚠ Real time video is not very smooth
- ⚠ Images in depth view are chopped
- ⚠ If application is working few hours GStreamer is crushing
- ⚠ After few connect/disconnect operations application can crash
- ⚠ Working with network shares is not yet possible
- ⚠ Application will not restore IP address if it was set to something else than DHCP
- ⚠ Expanding of the views is problematic

Version 1.0.2 released on 2018/02/16

Changes

- ✚ Observation descriptions are movable
- ✚ Layout management
- ✚ Separate layout and language settings for Viewer and Light Viewer
- ✚ Bottom rendering options
- ✚ Paths with Unicode characters
- ✚ Circular shapes in UI
- ✚ Batch processing context menu options
- ✚ Export ZIP issue

Known Issues

- ⚠ Auto gain has not been tested properly
- ⚠ Real time video is not very smooth
- ⚠ Issue in synchronization connected with video recording
- ⚠ Images in depth view are chopped
- ⚠ If application is working few hours GSTREAMER is crushing
- ⚠ Expanding of the views is problematic
- ⚠ Display context option in visualization mode - different scan is loaded

Version 15 (0.9.15) released on 2018/01/23

Notes

This CleverScan release is a final version but not included in WinCan VX 12. It addresses some bugs found in testing of RC.

Changes

- ➕ Expanding of widgets is less painful
- ➕ SideView is scaled during resize
- ➕ Keep aspect ratio option for visualization widgets
- ➕ Scans are unloaded only if new scanning procedure has started
- ➕ Status indicators false positives bug
- ➕ Side camera preview bug
- ➕ Camera software checksum validation during update procedure
- ➕ Connecting to the arduino is simplified and boosted
- ➕ Auto brightness feature has been added
- ➕ Egg shape issues of bottom has been resolved
- ➕ Point cloud sampling has been increased and is adjustable
- ➕ Download progress in status bar has been added
- ➕ Checking openGL version has been implemented
- ➕ UDP problem with supervisor resolved
- ➕ Md5 checksum for updated files has been added
- ➕ Autoconnection and release improvements have been applied
- ➕ Low resolution support

Known Issues

- ⚠️ Auto gain has not been tested properly
- ⚠️ Real time video is not very smooth
- ⚠️ Issue in synchronization connected with video recording
- ⚠️ Images in depth view are chopped
- ⚠️ If application is working few hours GSTREAMER is crushing
- ⚠️ Expanding of the views is problematic

Version 12 (0.9.12) released on 2017/10/18

Notes

This CleverScan release is a final version included in WinCan VX 12. It addresses some bugs found in testing of RC.

Changes

- ℹ️ Camera firmware update is fixed (messagebox issue)
- ℹ️ Feedback dialog displays always on top

Version 0.9.11 released on 2017/10/13

This CleverScan release is a Release Candidate version for WinCan VX 12.

Changes

- ⓘ General Stability improvements
- ⓘ Imperial units improvements
- ⓘ Reduced scanning lag
- ⓘ Depth calculation improvements
- ⓘ Launcher merged into main application
- ⓘ Rectangle shape processing improvements
- ⓘ Screenshots can also be taken when side camera is selected
- ➕ Icons introduced for *docked widgets*

- ➕ Cancel feature (scanning, processing)
- ➕ Light viewer mode (without possibility to introduce modifications into existing scan)
- ➕ Video speed control

- ➕ Depth calculation synchronized with VX
- ➕ If there was any error during multi-scan processing it will be marked on the scan list
- ➕ Context menu for scans (remove/export/rename/delete)
- ➕ Import project option
- ➕ Simplified mode for setting camera exposure parameters
- ➕ Cameras can be switched from simplified mode
- ➕ *Cancel* for closing application when camera is still connected
- ➕ Mesh sample points distance control widget
- ➕ Scan dialog can handle multiple cameras. More images can be added.
- ➕ 3D Mouse integration
- ➕ Filtering scans by name on the workspace list
- ➕ 3D navigation using double click (Front view and Cloudpoint)
- ➕ Camera/Supervisor status indicators

- Posibility to send feedback directly from the application.

Known Issues

- Some connectivity issues when using VirtualBox Network Adapter
- There is no option to select installation path when CS is installed through standalone installer (not with VX) - it defaults then to *C:\Cle verScan*

Version 0.9.10 released on 2017/08/25