# CleverScan Software Release Notes

## Version 1.2.9 released on 2018/07/06

### Changes

- 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**

- A Some cameras are showing some strange artifacts during first startup.
- A 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
- A 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
- 1 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
- Bectangular 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
- **1** 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
- A If application is working few hours GStreamer is crushing
- After few connect/disconnect operations application can crash
- Morking 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
- **U** 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
- A Real time video is not very smooth
- A Issue in synchronization connected with video recording
- Images in depth view are chopped
- If application is working few hours GSTREAMER is crushing.
- A 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

- 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
- Hautoconnection and release improvements have been applied
- tow 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
- **1** 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

- 1 Camera firmware update is fixed (messagebox issue)
- Teedback dialog displays always on top

## Version 0.9.11 released on 2017/10/13

#### **Notes**

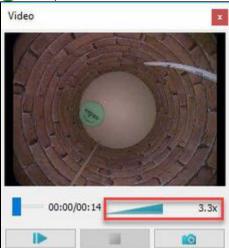
This CleverScan release is a Release Candidate version for WinCan VX 12.

## Changes

- General Stability improvements
- Imperial units improvements
- Reduced scanning lag
- Depth calculation improvements
- 1 Launcher merged into main application
- Screenshots can also be taken when side camera is selected
- tons introduced for docked widgets



- Cancel feature (scanning, processing)
- 🔂 Light viewer mode (without possibility to introduce modifications into existing scan)
- Uideo 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
- Hesh sample points distance control widget
- Scan dialog can handle multiple cameras. More images can be added.
- 1 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
- 1 There is no option to select installation path when CS is installed through standalone installer (not with VX) it defaults then to C:\CleverScan

## Version 0.9.10 released on 2017/08/25