WinCan

Always ahead

ASSET MANAGEMENT SOFTWARE

FOR THE WASTE WATER INFRASTRUCTURE

CD Lab AG startet in 1990 as a software service company with 4 employees, and has been headquartered in Murten, Switzerland since 2002. Today, this location houses the development team for WinCan, CD Lab's core software product, and also serves as the worldwide distribution hub for that software. CD Lab is the worldwide leader in pipe inspection and asset management software, and maintains compatibility with all leading camera equipment brands.

WinCan Deutschland GmbH is a subsidiary of CD Lab AG, located in Langenargen close to Lake Constance in southern Germany. It organizes distribution and support of WinCan in Germany, Austria, and all Eastern European countries.

WinCan Europe Ltd is located south of London (Woking). It organizes distribution and support for the United Kingdom, as well as for many territories using UK-based (WRc) standards.

Content

Overview

WinCan product portfolio

	ENTRY*	ADVANCED
Description	The entry package can be used for the inspection of mainline pipes as well as for the simple post-processing of inspection data.	Standard package for the inspection of mainline pipes including the creation of MPEG 1/2/4 files.
Prerequisites	Windows XP, Vista, 7 or 8 – only Windows professional version or higher	Windows XP, Vista, 7 or 8 – only Windows professional version or higher

		Art.-Nr.	1020	1030
Data collection	Section	2010	✓	✓
	Manhole	2020	•	•
	Lateral	2030	•	•
	Draw / Text		✓	✓
	Simple Crackwidth /Deformation measurement with photo		✓	✓
	WinCan PhotoAssistant	2040	•	•
	Viewer		✓	✓
	Data collection standard (Im- / Export)	2050	one	one
	Map VX Entry		✓	✓
	Document management		✓	✓
Data analysis	Rating / Grading	2060	•	•
	GIS Analysis		—	—
	Rehabilitation planning		—	—
	Statistics		—	—
Data management	WinCan Validator	2070	•	•
	WinCan Data Transfer	2080	•	•
	Report Generator	2090	•	•
	WinCan Meta DB	2100	•	•
	Control Textgenerator	2110	•	✓
	SQL- / Oracle Option	2120	•	•
	Rule Machine	2130	•	•
	Data Integration (Cityworks, Hansen, Maximo)	2140	•	•
Video	DivX and MPEG 1	3010	•	✓
	MPEG 1 / 2 / 4 and HD Video creation	3020	•	✓
Measurement modules	Inclination	2141	•	•
	Diameter- & Deformation measurement with laser	2150	•	•
	WinCan 3D (incl. PhotoAssistant)	2160	•	•
	Multiple Inspections	2170	•	•
	ProClean	2180	•	•
GIS modules	MAP Advanced	2190	•	•
	Map Expert / ArcGIS Integration	2200	•	•
Scanning modules	WinCan ScanExplorer	2210	•	•
	IBAK Panoramo ScanExplorer	2220	•	•
	WinCan LaserScan (Ringlaser)	2230	•	•
TouchScreen software	WinCan ProTouch	1010		
Hardware	Replacement Dongle (Single) : 4000 | Replacement Dongle (Network) : 4010 | MobileCap – hardware only: 4020 | Vitec Board: 4030 | Vitec c			

✓ included • optionally available — not available

* Network licenses available on request for WinCan VX Entry, WinCan VX Office and WinCan Analyst

WinCan VX

WinCan Analyst

WinCan Web

EXPERT	MANHOLE	OFFICE*	ANALYST*	WEB
Professional package for the inspection of any type of waste water asset (mainlines, laterals as well as manholes). Additional functionality for the reporting and data quality assurance (report generator, data validator) is an integral part of this package.	Specialised package for the inspection of manholes as well as boreholes. The manhole/borehole package provides a customised set of reports for manhole assets.	The office package contains all tools for the management, pre- and post processing of inspection data. It provides a powerfull set of reports for the final delivery of inspection data.	WinCan Analyst is a package for Engineers, water authorities and contractors who want to analyse the condition of the waste water network. WinCan Analyst contains asset rating, rehabilitation planning, predefined GIS queries and statistical reports.	WinCan Web is a browser based viewer software. It displays the inspection data and it streams the inspection videos & pictures via the internet. The user can also print out an inspection report just like in the desktop based WinCan VX.
Windows XP, Vista, 7 or 8 – only Windows professional version or higher	Windows XP, Vista, 7 or 8 – only Windows professional version or higher	Windows XP, Vista, 7 or 8 – only Windows professional version or higher	Windows XP, Vista, 7 or 8 – only Windows professional version or higher	Windows Server 2008 R2 or higher with Internet Information Server 7 and a media server for the media files
1040	1050	1060	1070	1080
✓	—	✓	✓	
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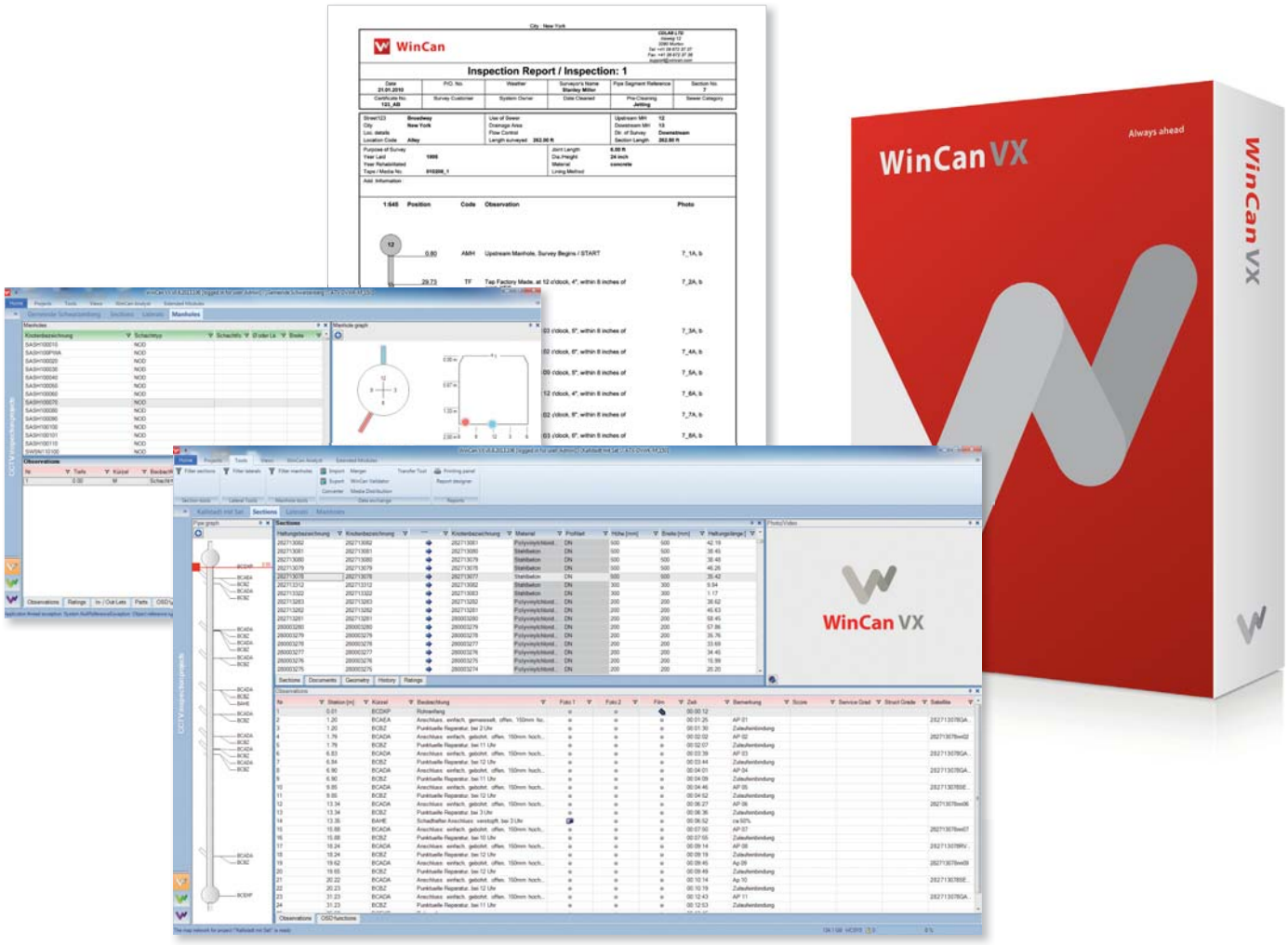
WinCan VX

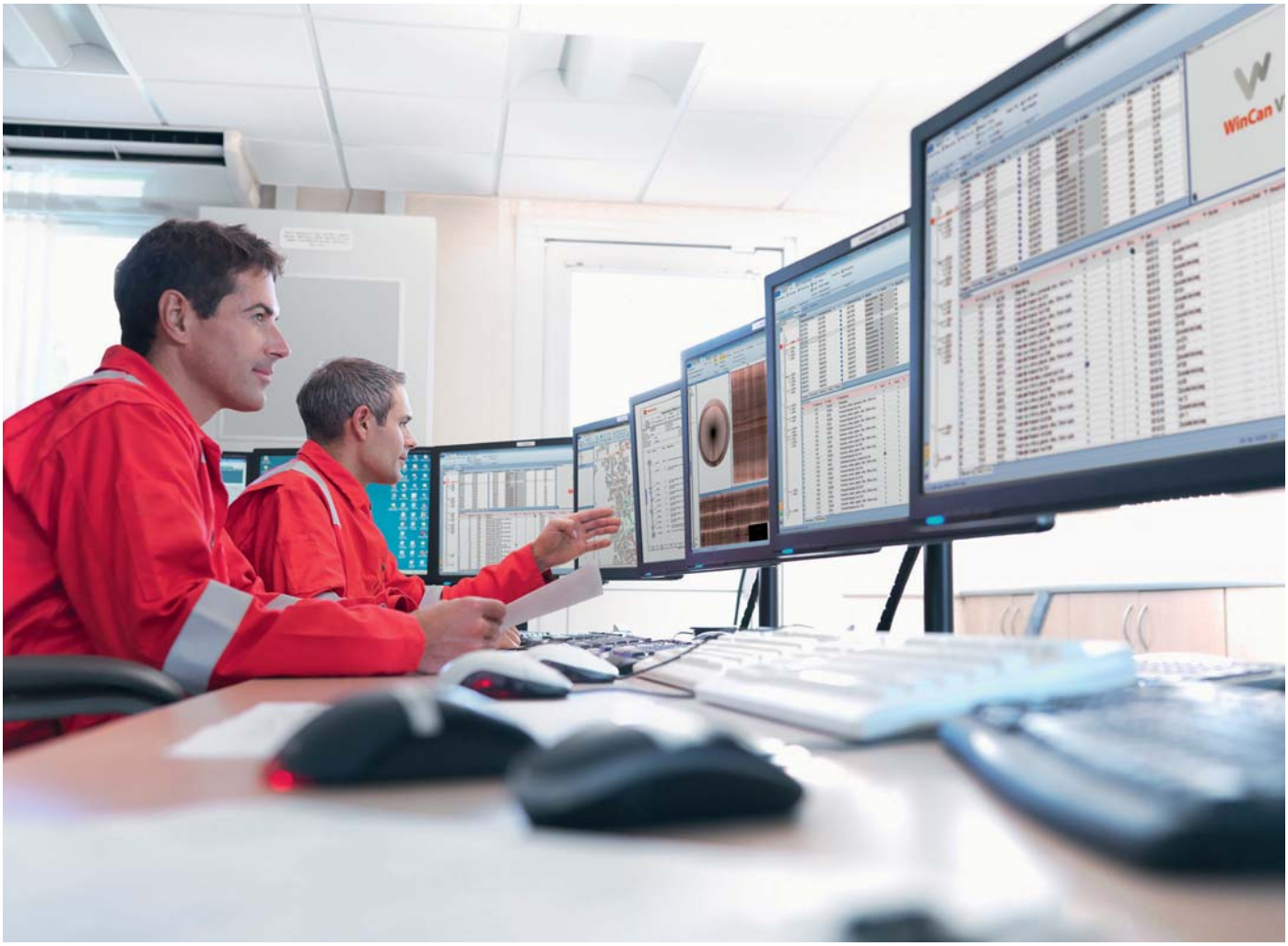
Software for inspection and management of the waste water infrastructure

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

WinCan VX is the core of the entire WinCan product family. It offers the core functionality you need to collect pipe inspection data, organize it into a database, and generate inspection reports that graphically display the pipe and its defects. WinCan VX also allows you to manage data in the office post-inspection, share it with clients using free viewer software, and export it in a variety of formats. Various report templates present a concise summary of asset condition, and can be fully customized to individual needs.





ADVANTAGES AND FEATURES

— Universal Compatibility

WinCan VX works interchangeably with all major brands of pipe inspection cameras, and our continuous development of the platform means you can count on it to support emerging technologies before the competition.

— Common Platform

WinCan VX streamlines the collection of pipe inspection data, and then makes that same data seamlessly available to engineers and management for analysis and reporting.

— Supporting Beginners and Experts

WinCan VX adapts to the capability of any user. Beginners unfamiliar with inspection codes can simply key in a term and WinCan VX will display all codes containing the term. Intermediate operators can navigate a hierarchical menu to drill down to the proper code. Experts can type in a portion of the code and WinCan will complete the observation without requiring any mouse clicks or window toggling.

— Flexible Reporting

WinCan VX reports can be custom-tailored to the needs of any user. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

— Graphical Presentation

Captured data is presented simultaneously in a grid and schematic views. The schematic view makes comprehending asset condition quick and easy, and is updated in real time as inspection data is added or changed.

— Flexible Interface

The various panels of the WinCan VX user interface can be resized, repositioned, and maximized / minimized to suit the needs of any user. Custom data fields and data types can also be created. Many other aspects of the interface can be customized, as well, including typeface, type size, field color and keyboard shortcuts.

— Entry-Level Mapping

The WinCan VX core software can display inspection data on a GIS map, allowing assets and observations to be selected with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

— Extendable Design

- WinCan VX's modular architecture lets you add whatever additional functionality you need, including multiple inspection support, MPEG 1 / 2 / 4 or H.264 video compression, document management, MS-SQL or Oracle database support, side-scanning, laser profiling, and much more.
- WinCan VX supports all major GIS systems (ArcGIS, Geomedia, etc.)
- WinCan VX allows custom-defined filtering of inspection data.
- Free viewing software means all WinCan VX data can be shared for free with clients.
- WinCan VX can splice together incomplete portions of a section.
- The text of individual observations can be color-coded according to damage classification.

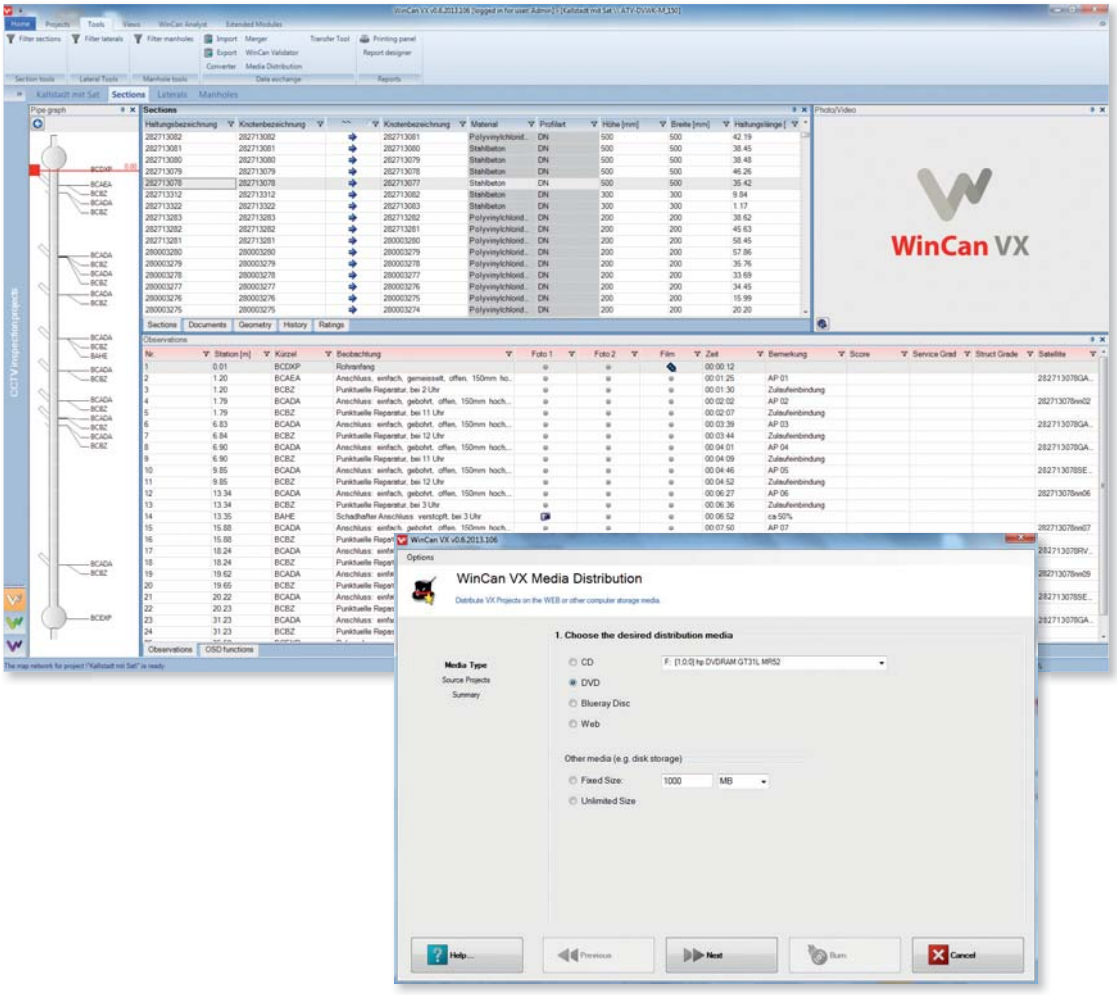
»I work every day with the WinCan Software. WinCan is very flexible and works with mainline camera inspection systems as well as with push rod camera systems.«

Sylvain Etter
Pipe inspection operator and
customer of CD Lab AG

WinCan VX Entry

The basics for pipe inspection

WinCan VX Entry is designed for inspection of public sewers and simple post-processing of inspection data. It contains all core functions of the VX platform, like standards-compliance, basic mapping of assets and observations, and report generation. Inspection data can be packaged into free viewer software for clients. Add-on functionality can be licensed at any time.



ADVANTAGES AND FEATURES

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

— Universal Compatibility

WinCan works interchangeably with all major brands of pipe inspection cameras, and our continuous development of the platform means you can count on it to support emerging technologies before the competition does.

— Flexible Reporting

Custom-tailored reports to your specific needs. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

— Entry-level Mapping

View inspection data on a GIS map, and select assets and observations with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

— Markup and Standards Support

Create sketches and drawings, as well as attach typed notes. This package also comes with your choice of any one inspection standard from all supported standards (including WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, and many more).

— Merging of Databases

Merge inspection projects databases at any time – essential functionality when multiple teams are working on a single collection of assets.

— Free Viewer Software

Distribute a free, read-only version of WinCan VX preloaded with your inspection data to anyone. The viewer can be distributed on a DVD or an other external memory device, and does requires no installation by the recipient.

— Measurement

Measure the size of cracks on pipe wall, as well as local deformations. The measuring methods are based on analysis of visual data taken from video. The measured values can be saved on the photo, and printed out as well.

WinCan VX Advanced
Enhanced capability for pipe inspection

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

WinCan VX Advanced is designed for the inspection of public sewers using truck-mounted inspection equipment. It contains all the functionality of WinCan VX Entry, but also allows you to encode video using MPEG 1 / 2 / 4 or DivX, as well as overlay text on video.

ADVANTAGES AND FEATURES

— Video Encoding and Text Overlay
Digitize video using MPEG 1 / 2 / 4 software encoding. Video encoding pauses automatically while the operator navigates observation codes, and completed video is assigned to the active segment. Videos can be edited post-inspection, and still frames can be extracted. With text overlay functionality, WinCan can communicate with various types of text generators to control the text displayed on video.

— Universal Compatibility
WinCan VX works interchangeably with all major brands of pipe inspection cameras, and our continuous development of the platform means you can count on it to support emerging technologies before the competition.

— Flexible Reporting
WinCan VX reports can be custom-tailored to the needs of any user. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

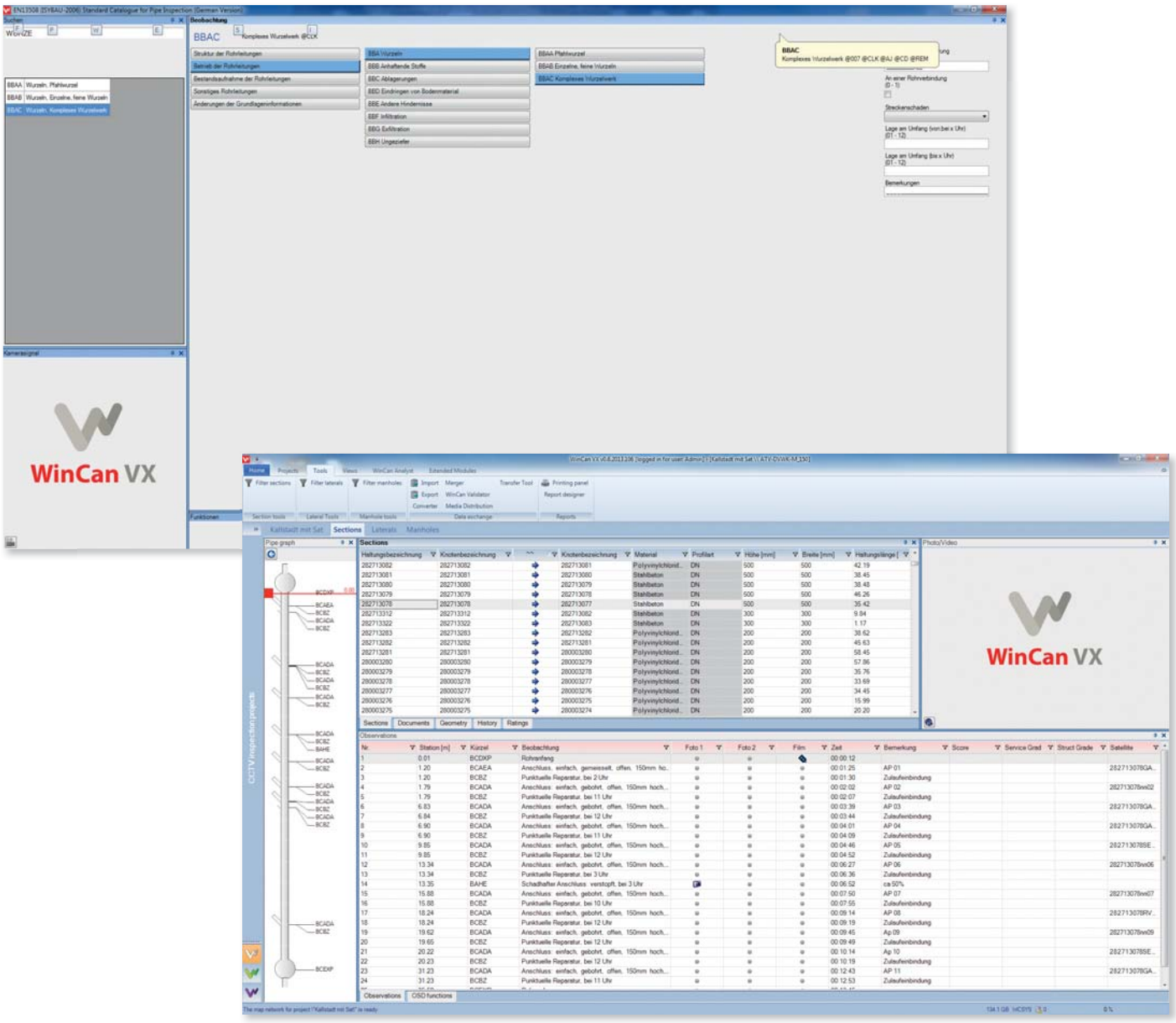
— Entry-Level Mapping
The WinCan VX core software can display inspection data on a GIS map, allowing assets and observations to be selected with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

— Markup and Standards Support
Create sketches and drawings, as well as attach typed notes. This package also comes with your choice of any one inspection standard from all supported standards (including WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, and many more).

— Merging of Databases
Merge inspection projects databases at any time – essential functionality when multiple teams are working on a single collection of assets.

— Free Viewer Software
Distribute a free, read-only version of WinCan VX preloaded with your inspection data to anyone. The viewer can be distributed on a DVD or an other external memory device, and does requires no installation by the recipient.

— Measurement
Measure the size of cracks on pipe wall, as well as local deformations. The measuring methods are based on analysis of visual data taken from video. The measured values can be saved on the photo, and printed out as well.


WinCan VX
WinCan VX

WinCan VX Expert

Everything you need for pipe inspection and analysis

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

WinCan VX Expert is designed for power users and early adopters of new inspection technology. It contains all the functionality of WinCan VX Advanced, plus an advanced report generator, a customizable project manager, and a validator that ensures data is accurate and standards-compliant.

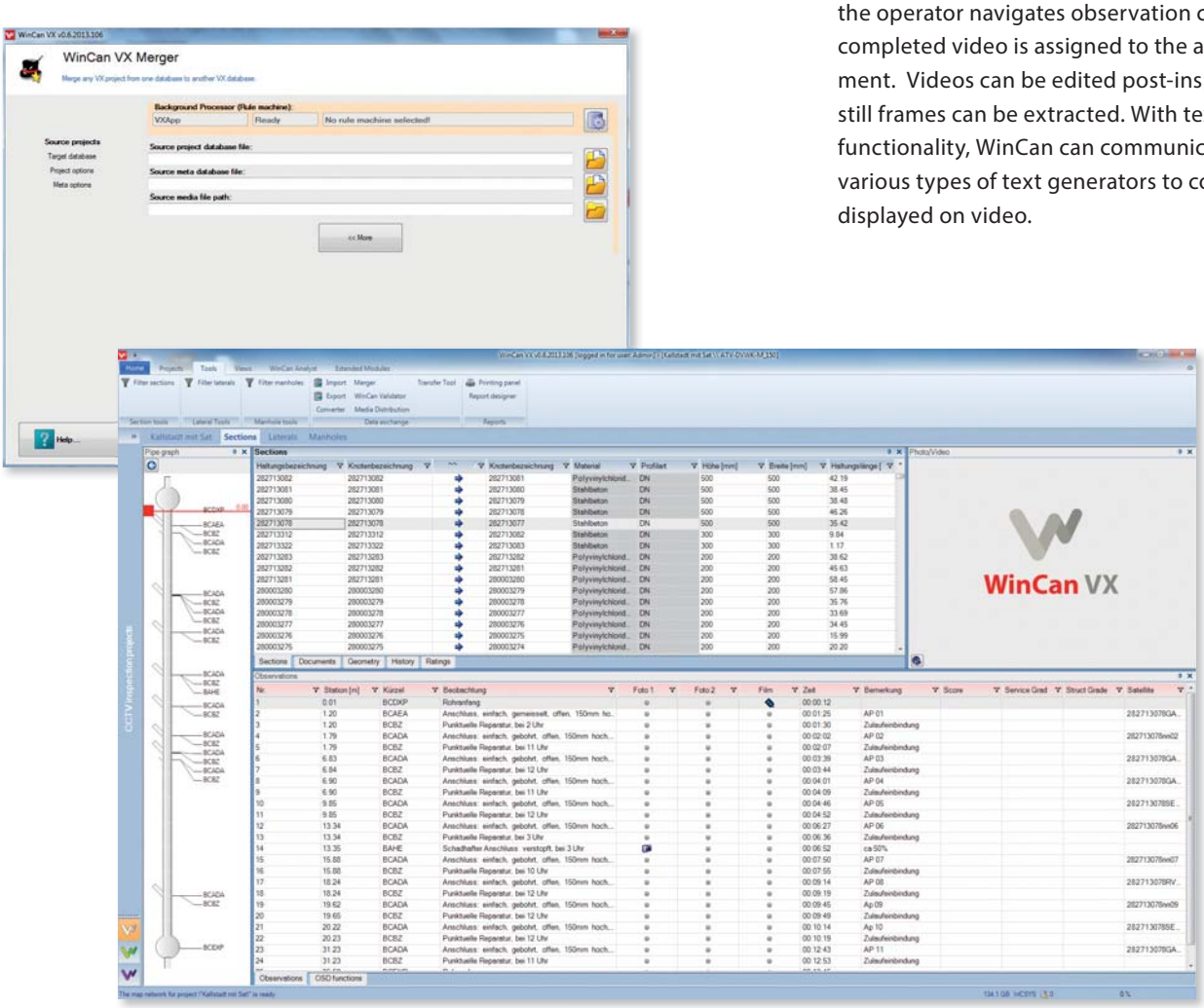
ADVANTAGES AND FEATURES

— WinCan Validator

To ensure data quality and standards compliance, WinCan VX Expert validates all inspection data. It also checks that all required entries have been made and that all videos and pictures are stored locally. The validator tool delivers a detailed report of probable quality issues, along with suggestions for fixing them.

— Video Encoding and Text Overlay

Digitize video using MPEG 1 / 2 / 4 software encoding. Video encoding pauses automatically while the operator navigates observation codes, and completed video is assigned to the active segment. Videos can be edited post-inspection, and still frames can be extracted. With text overlay functionality, WinCan can communicate with various types of text generators to control the text displayed on video.



— Manhole Inspection

Inspect manholes and other structures using asset-specific standards.

— Project Management

With Project Manager, you can assemble large collections of projects, and search those projects (or any subset of projects) using custom-defined queries. Among other benefits, this makes pinpointing a single asset across multiple databases quick and easy.

— Universal Compatibility

WinCan VX works interchangeably with all major brands of pipe inspection cameras, and our continuous development of the platform means you can count on it to support emerging technologies before the competition.

— Flexible Reporting

WinCan VX reports can be custom-tailored to the needs of any user. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

— Entry-Level Mapping

The WinCan VX core software can display inspection data on a GIS map, allowing assets and observations to be selected with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

— Markup and Standards Support

Create sketches and drawings, as well as attach typed notes. This package also comes with your choice of any one inspection standard from all supported standards (including WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, and many more).

— Merging of Databases

Merge inspection project databases at any time – essential functionality when multiple teams are working on a single collection of assets.

— Free Viewer Software

Distribute a free, read-only version of WinCan VX preloaded with your inspection data to anyone. The viewer can be distributed on a DVD or an other external memory device, and does requires no installation by the recipient.

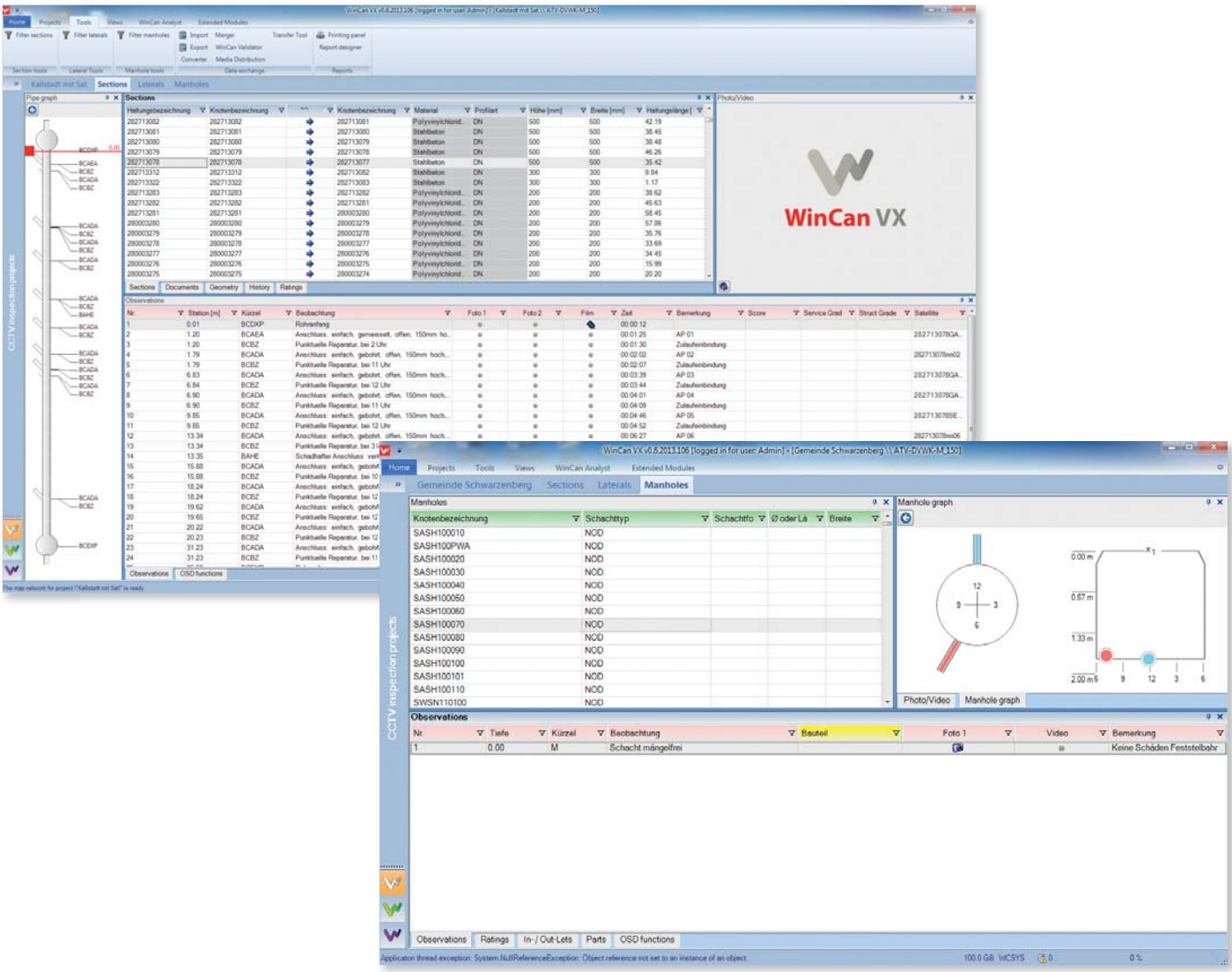
— Measurement

Measure the size of cracks on pipe wall, as well as local deformations. The measuring methods are based on analysis of visual data taken from video. The measured values can be saved on the photo, and printed out as well.

WinCan VX Manhole

Specialized tools for inspecting manholes, boreholes and deep wells

Achieve standards compliance and generate custom reports tailored to the inspection of manholes and deep wells.



ADVANTAGES AND FEATURES

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

— Specific Reports

Generate reports that address the unique attributes and conditions of manholes. Reports include auto-generated profile and overhead schematics of the manhole. When inspecting boreholes, these schematics are modified so that the various filters are color-coded.

— Universal Compatibility

WinCan VX works interchangeably with all major brands of pipe inspection cameras, and our continuous development of the platform means you can count on it to support emerging technologies before the competition.

— Flexible Reporting

WinCan VX reports can be custom-tailored to the needs of any user. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

— Entry-Level Mapping

The WinCan VX core software can display inspection data on a GIS map, allowing assets and observations to be selected with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

— Markup and Standards Support

Create sketches and drawings, as well as attach typed notes. This package also comes with your choice of any one inspection standard from all supported standards (including WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, and many more).

— Merging of Databases

Merge inspection project databases at any time – essential functionality when multiple teams are working on a single collection of assets.

— Free Viewer Software

Distribute a free, read-only version of WinCan VX preloaded with your inspection data to anyone. The viewer can be distributed on a DVD or an other external memory device, and does requires no installation by the recipient.

— Measurement

Measure the size of cracks on manhole wall, as well as local deformations. The measuring methods are based on analysis of visual data taken from video. The measured values can be saved on the photo, and printed out as well.

WinCan VX Office

Everything you need to analyze and post-process inspections

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

Validate, post-process and package inspection data for delivery to the client, as well as generate costomized reports.

ADVANTAGES AND FEATURES

— **Flexible Reporting**
WinCan VX reports can be custom-tailored to the needs of any user. Text and pictures can be arranged as desired, the size of colums and lines can be adjusted, and dynamic values can be generated and stored for reuse. Custom reports can be built from the ground up, or by modifying any of the supplied report templates.

— **WinCan Validator**
To ensure data quality and standards compliance, WinCan VX Expert validates all inspection data. It also checks that all required entries have been made and that all videos and pictures are stored locally. The validator tool delivers a detailed report of probable quality issues, along with suggestions for fixing them.

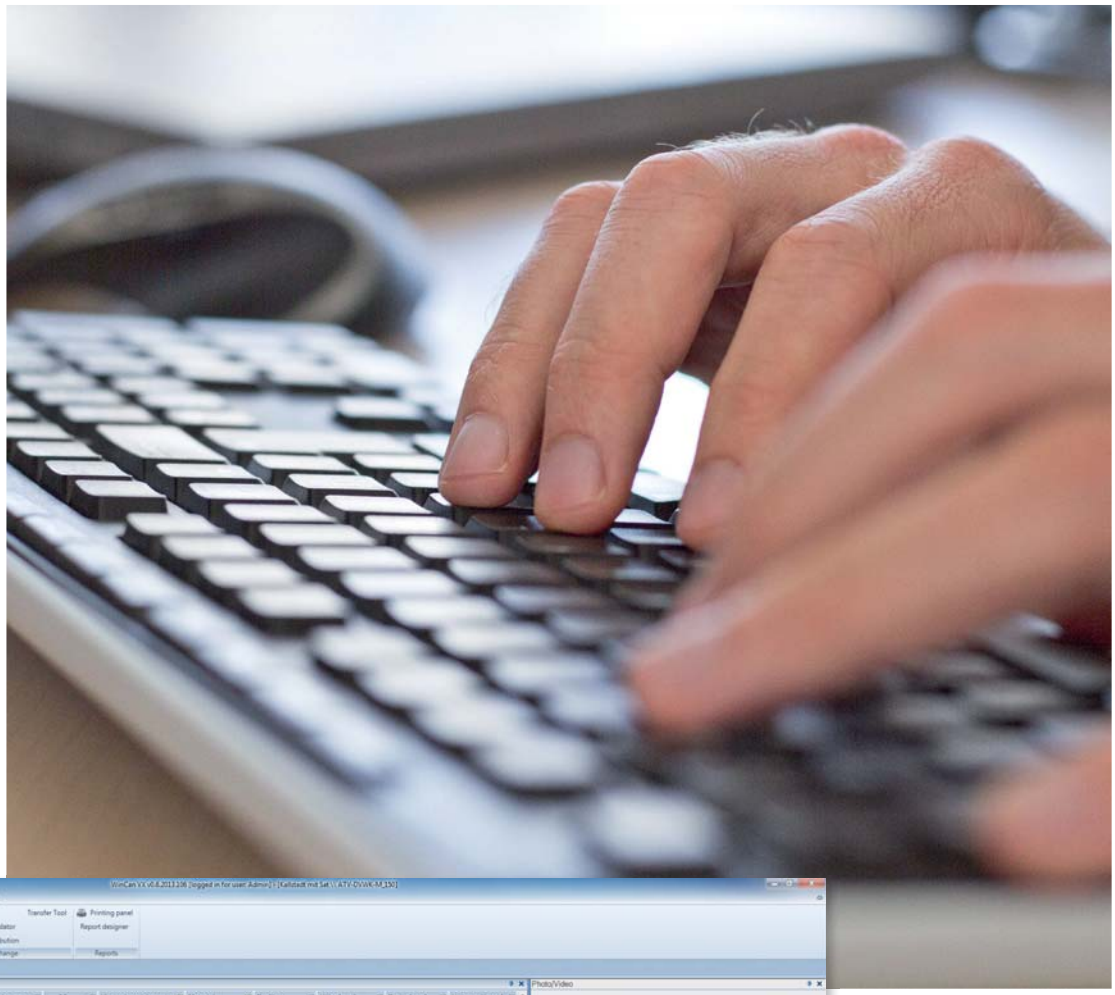
— **Entry-Level Mapping**
The WinCan VX core software can display inspection data on a GIS map, allowing assets and observations to be selected with a simple mouse click. Extended GIS capability is available with the WinCan GIS module.

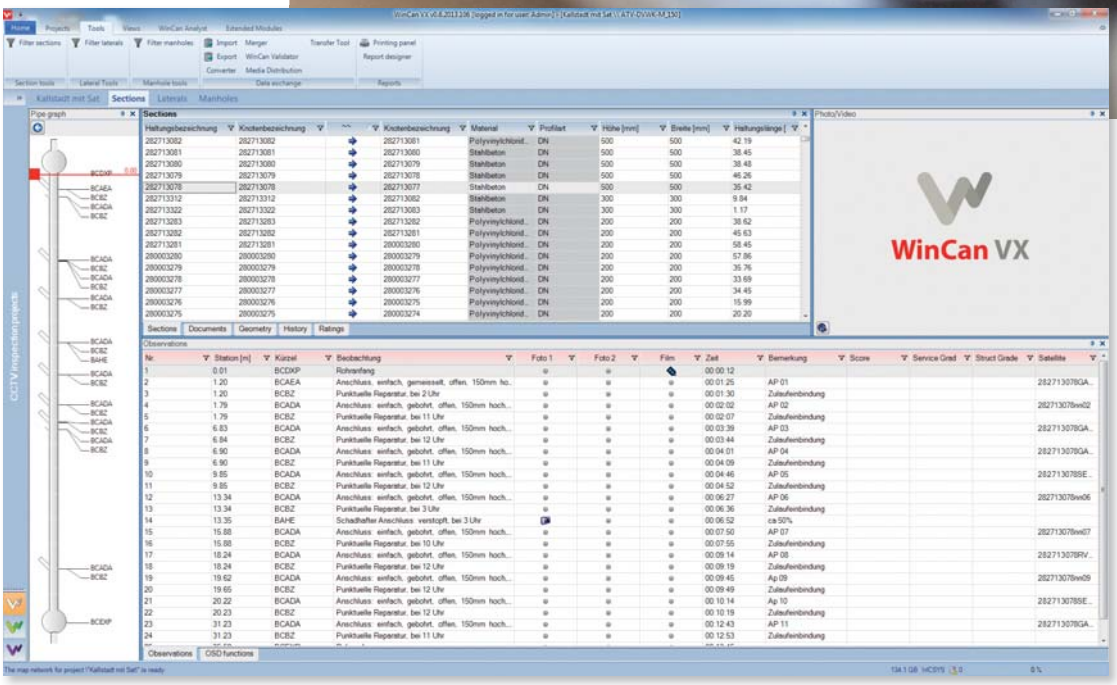
— **Markup and Standards Support**
Create sketches and drawings, as well as attach typed notes. This package also comes with your choice of any one inspection standard from all supported standards (including WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, and many more).

— **Merging of Databases**
Merge inspection project databases at any time – essential functionality when multiple teams are working on a single collection of assets.

— **Free Viewer Software**
Distribute a free, read-only version of WinCan VX preloaded with your inspection data to anyone. The viewer can be distributed on a DVD or an other external memory device, and does requires no installation by the recipient.

— **Measurement**
Measure the size of cracks on pipe wall, as well as local deformations. The measuring methods are based on analysis of visual data taken from video. The measured values can be saved on the photo, and printed out as well.




WinCan VX

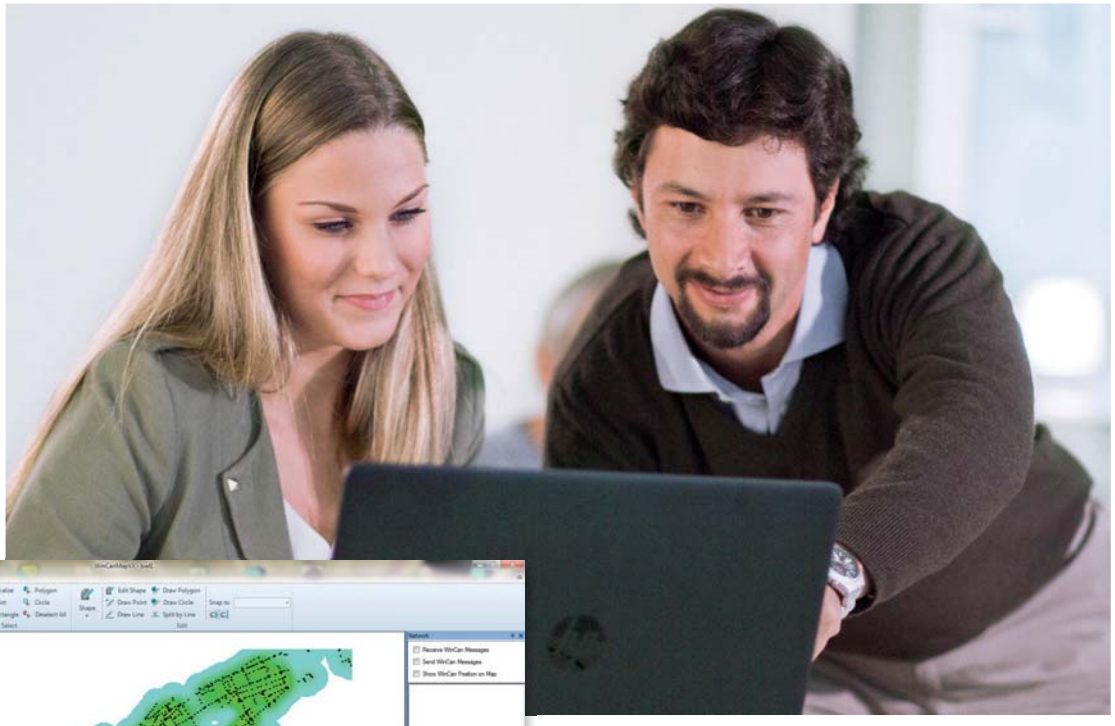
WinCan Analyst

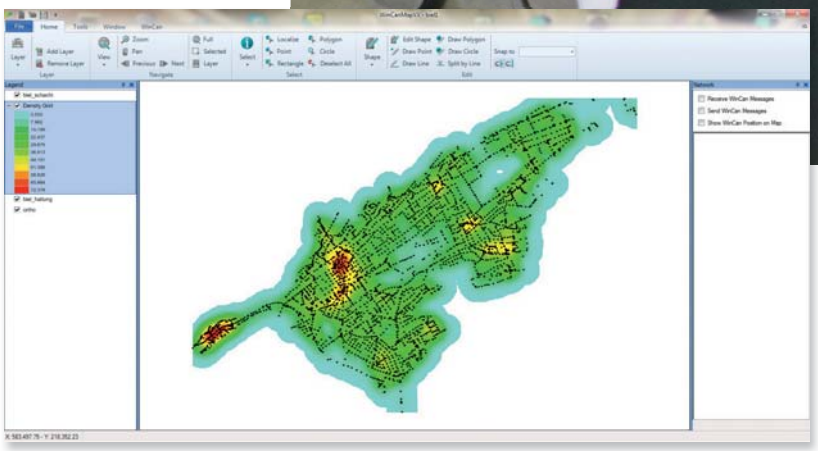
Allowing municipalities and engineers to analyze and manage collection systems

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

WinCan Analyst is a software to valuate, manage and analyse Sewer Networks. The software is based on the WinCan VX platform, which secures a direct integration of the inspection data to the analyse of this data, without a need to interchange the data, which could reflect in loss of specific data (like inclination measurement). One of the main values of WinCan Analyst is the seamless integration into different GIS Systems and the optimisation for high performance, also with high data volume. WinCan Analyst contains different functional areas: Management of status data of the sewer systems including their automatised classification, analysation of the characteristics of the sewer systems in GIS systems, issue of statistics and reports – as well as maintenance planning's for pipes and manhole systems.





ADVANTAGES AND FEATURES

— One Unified Solution

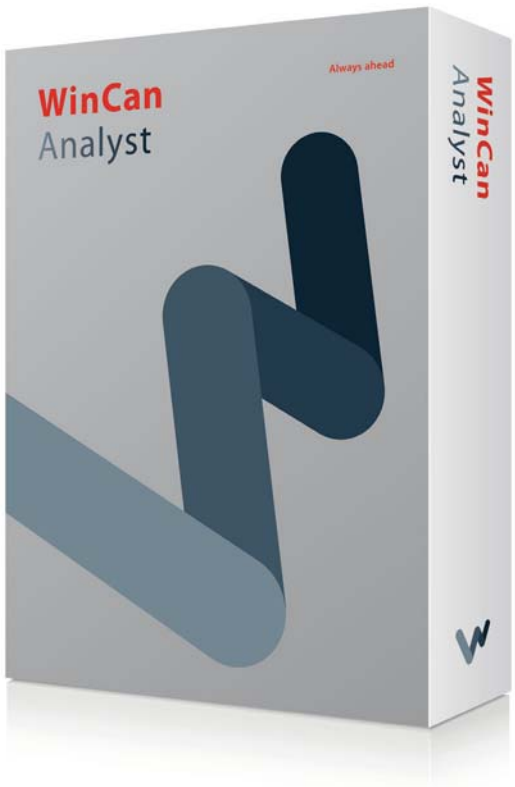
WinCan Analyst includes the full set of functionality engineers and municipal managers need to manage collection systems of any size, saving the time and expense of patching together several less capable applications.

— Data Management

Perform standards-compliant data collection, comprehensive reporting, and all the other basic functions for managing sewer data.

— Assess Damage

Observation catalogs like the WRc Standards (3/4/5) , WSA (2008/2013) and many more are implemented directly, ensuring an accurate overview of sewer network conditions. Automatic severity ratings make it easy to prioritize maintenance activities.



— Maintenance Planning (available May 2014)

Based on the inspection data for each asset, WinCan Analyst proposes a plan for repair, renovation or replacement. This plan can be manually modified, and then converted to a report showing projected costs and schedules. The maintainance plan can also be visualised in WinCan's GIS component.

— GIS Presentation (WinCan Map VX)

WinCan Analyst offers 15 built in and unlimited custom queries, the results of which can be visualised in the integrated GIS system. With a mouse click, maps can be color-coded according to asset defect classification, age, and type. As well as display analyses of aging structure or type of waste water with a single mouse-click.

— Reports and Statistics

Understand your data system-wide using a variety of standard reports, including section, manhole, inclination, defect priority, statistics (defect, age, profile, material or type), measurement, and maintenance planning / cost. Custom reports can be made by modifying standard reports, or by building from scratch.

WinCan Web

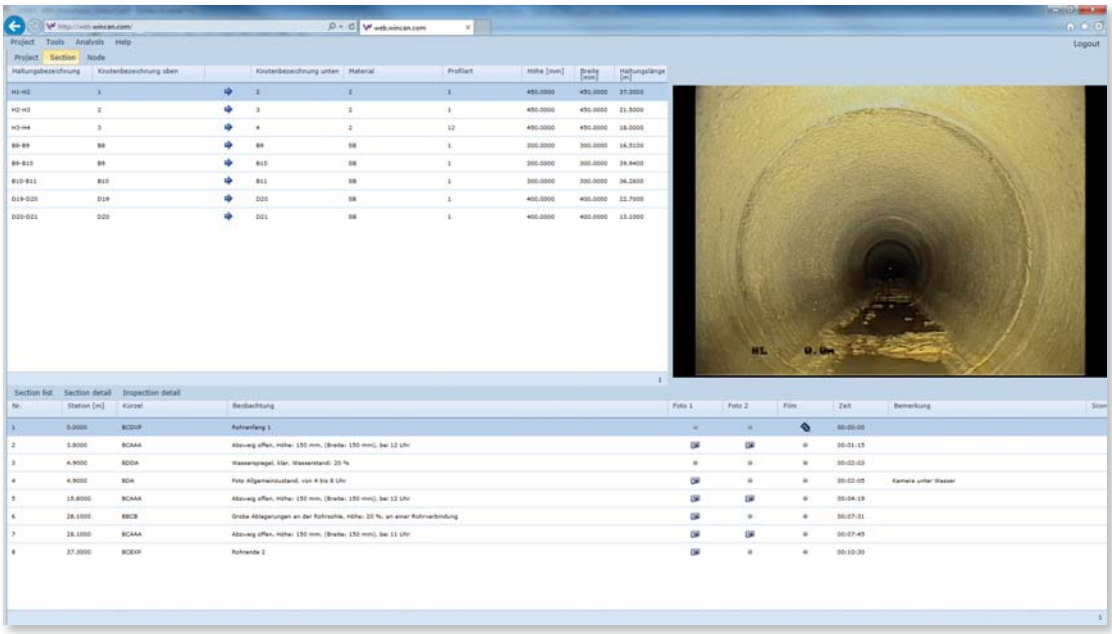
The cloud solution for secure, browser-based access to WinCan VX inspections

System Prerequisites

- WinCan VX database

If using your own server infrastructure:

- Twin servers (Windows 2008 R2)
- SQL Server (2008 R2 standard or 2012)
- Data Storage
- Domain or subdomain for website
- Network WAN, LAN, DMZ including routing in firewall
- High-speed internet upload capability



Securely publish inspection data, images and video to the internet using your own server or WinCan's. Deliver results anywhere immediately, all while maintain tight control of per-user access.

ADVANTAGES AND FEATURES

— Browser-based access to inspection data, images and video.

— Deliver inspection results immediately and securely.

— Allow authorized viewers to generate their own reports from data.

— Fast, Easy Sharing.
WinCan Web transfers inspection results to the cloud for browser-based access. Data can be viewed by any authorized personnel without installing any additional software.

— Anytime Access
Web data is available 24 / 7, and data redundancy greatly reduces the risk of data loss.

— Universal Compatibility
Sharing videos cross-platform without licensing or installing special video codecs. WinCan Web uses web-standard video formats for maximum compatibility.

— Hassle-free Distribution
Simply send a link to your inspection data, rather than transferring it to physical media that has to be mailed or FTPed.

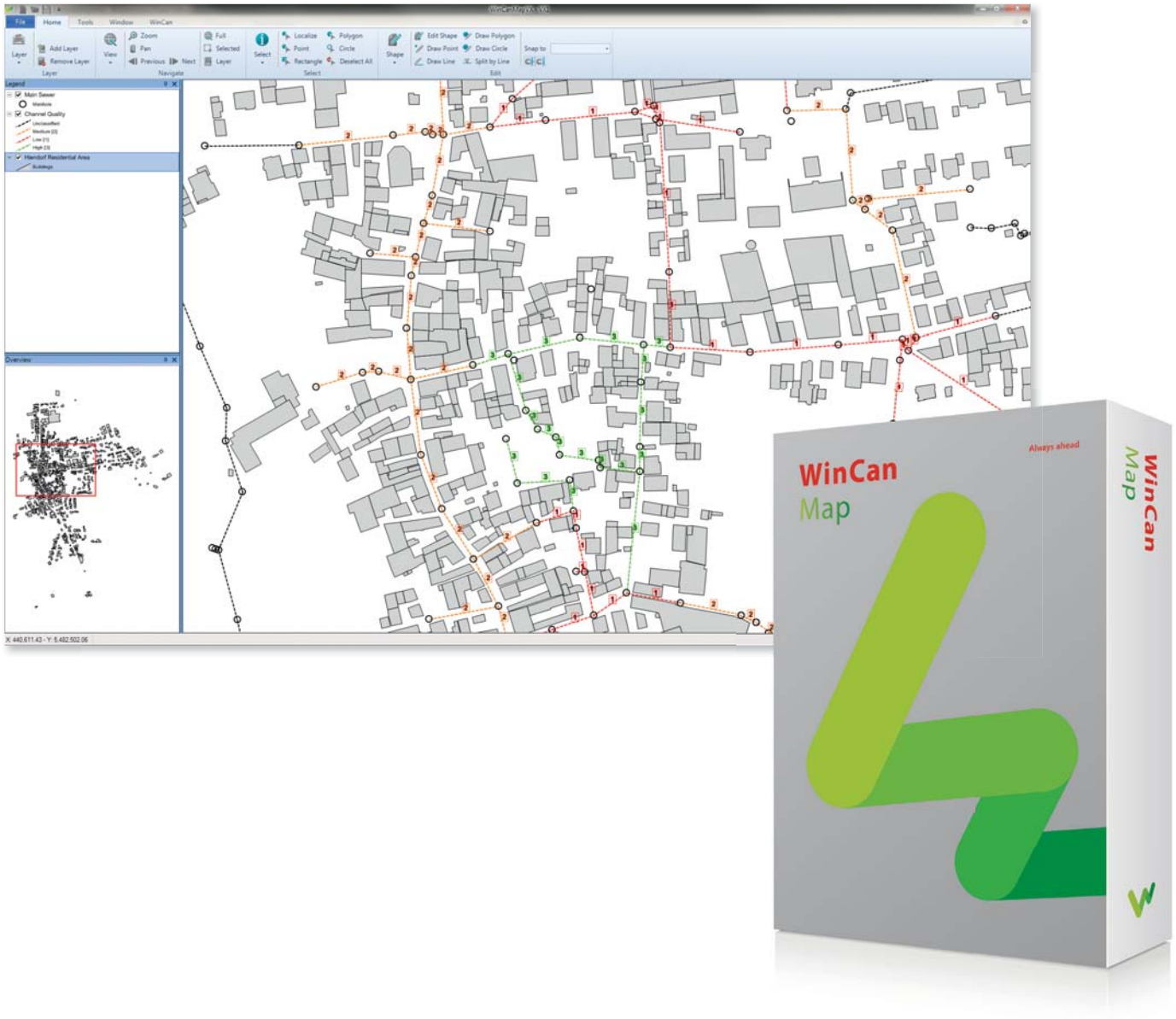
— Always Up-to-date
WinCan Web eliminates versioning issues. As an inspection is updated, so is the data customers see online.

— Device Independent
WinCan Web data can be also viewed from a tablet or smart phone.

WinCan Map

The geographic information system for sewer networks

Navigate and analyse your inspection data using familiar GIS views and tools. WinCan Map VX accepts all major GIS data formats (ESRI, AutoCAD, DXF / DWG, MapInfo, OpenStreetMap, etc.).



ADVANTAGES AND FEATURES

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

— Flexible Interface

For easier interaction, you can group interface elements according to function, resize them, and turn them on or off. Interface customizations can be saved for easy recall and sharing.

— Lateral Inferencing

During a mainline inspection, important information is gathered about lateral connections: location, angle and clock position. WinCan Map VX uses this data to display laterals on GIS maps, and to export them to DXF and Shape files.

— Asset Geolocation

When an asset position is unknown, WinCan Map VX can accept coordinates directly from a GPS unit and map it.

— Data Visualisation

Color-code map elements according to asset attributes (material, age, profile, damage classification, etc.), and then then save those preferences as a template. Several standard templates also come with WinCan VX.

— Direct Integration

WinCan Map VX integrates seamlessly with the WinCan platform; selecting a map element highlights the corresponding asset or observation in WinCan VX, and vice versa.

— Data Transfer

To send a collection of sections to WinCan VX, simply drag to select all the corrsponding elements on a map. No more time-consuming, error-prone re-entry of section or manhole data.

— Scalability

Navigate large projects with thousands of objects without any delay, thanks to WinCan Map VX's high-performance GIS engine.

— There are 3 different Versions of WinCan Map VX

WinCan Map Entry

View only version, that allows for importing of external data or for creating a waster water network with the WinCan VX database. Printing maps and basic GIS functionality is also included.

WinCan Map Advanced

Standard Version including all advanced functionalities like GPS connection, transferring Shape Data to WinCan VX, correction of pipe positions, digitizing manholes and pipe assets. Also the export as shape file format or as AutoCad DXF files is included.

WinCan Map Expert

WinCan Expert includes special functionality for detailed analysis of the data like the creation of heatmaps or the connection to internet background mapping like OpenStreetMaps.

WinCan LaserScan

WRc-certified deformation measurement using laser hardware

System Prerequisites

- Windows (XP, VISTA, 7 or 8; 32- or 64-bit)
- WinCan VX

Capture the cross-sectional pattern cast by ring laser hardware over the full length of a pipe to generate a 3D model of its profile, as well as reports on ovality, capacity and diameter.

ADVANTAGES AND FEATURES

— Automated Geometry Acquisition
By analyzing the laser patern in each frame of video, WinCan Laser generates a 3 dimensional profile covering the full length of a pipe.

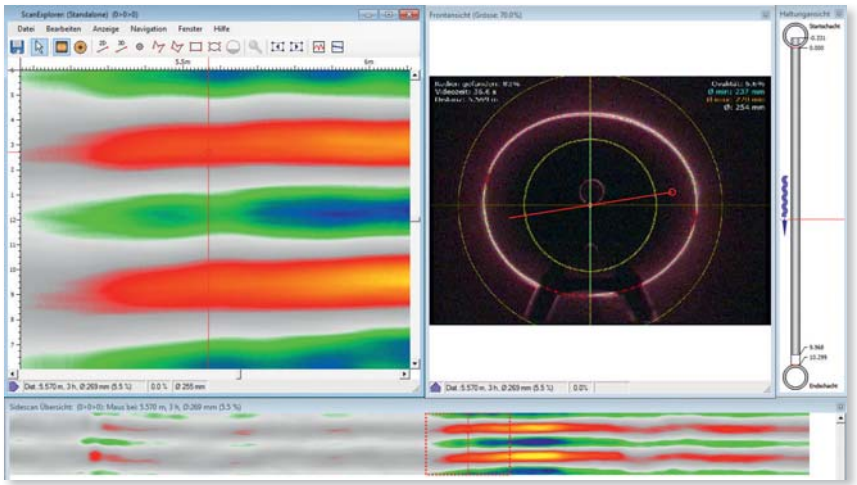
— Universal Compatibility
WinCan LaserScan works with all brands of inspection crawlers and laser devices.

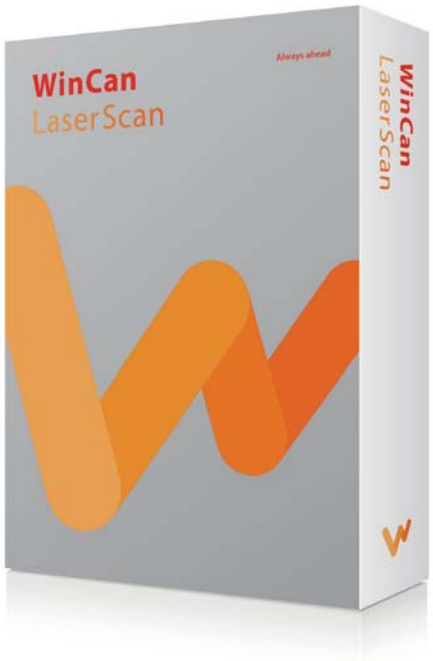
— Generate reports for ovality, capacity and diameter.

— View a 3D model of the pipe, and export it to CAD using industry-standard DXF format.

— Package your WinCan Laser scans into WinCan's free viewer software.

— WinCan Laser is WRc-certified as of July 2014.





WinCan ProTouch

Simple, portable inspection for push camera inspection of laterals

System Prerequisites

- Windows (XP, VISTA, 7 or 8; 32- or 64-bit)

Touchscreen data entry and a large video display make ProTouch ideal for tablet-based documentation of push camera lateral inspections. ProTouch interfaces with WinCan 3D (sold separately) to automatically generate a 3D model of inspected pipes.

ADVANTAGES AND FEATURES

— **ProTouch works with all brands of push cameras.**

— **Touchscreen interface with ovsersized buttons and a large video display make operation simple.**

— **Built-in image overlay tools allow easy measurement of pipe bends and lateral connection angles.**

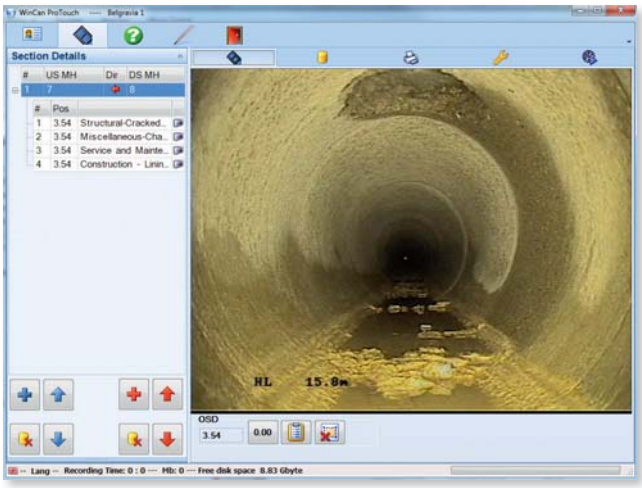
— **Transfer data seamlessly to WinCan VX.**

— **Capture onscreen distance readings from the camera using a built-in character reconition tool – no hardware needed!**

— **As an option, inspection data can be overlayed using only software.**

— **Generate a PDF report and email it directly from ProTouch.**

— **Create schematic drawings of work sites.**



Additional modules

Import / Export

Transfer data in compliance with more than 50 recognized inspection standards

System Prerequisites
• WinCan VX

Export WinCan VX data in accordance with any of 50 common inspection standards. Because exported data complies with the structure specified by the standard, and resides in a platform neutral format (such as XML or TXT), recipients are assured of trouble-free import.

ADVANTAGES AND FEATURES

— **The WinCan Import / Export module imports the following formats:**
ASCII, ATV-M150, Excel, DANDAS, GEMINI 1998, GEMINI 2005, GSCC, Hansen 7, Interlis 2, Interlis 3, Isybau 96, Isybau 2001, Isybau XML, PACP 4.4 / 6.0, Sewerat, SUFRIB 2.1, TV 3, WRc 3, and WRc 4

— **The WinCan Import / Export module exports to the following formats:**
ATV-M150, Hansen 7, Hansen 8, Isybau 2001, Isybau XML, Kummert XML, iPEK Agilios and Rovion, PACP 4.4 / 6.0, SUFRIB 2.0

WinCan Rating / Grading

Calculate asset Rating / Grading automatically

System Prerequisites
• WinCan VX

Calculate asset Rating / Grading based on their condition in accordance with defect coding standards like WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508 and many more. The rating of the assets helps ensure more effective prioritization of maintenance activities.

ADVANTAGES AND FEATURES

— **Rating Standards supported:**
WRc 3 / 4 / 5, PACP 4 / 6, Dandas, WSA 2008 / 2013, TV3, Norvar, EN13508, Isybau, DWA

WinCan Validator

Quality ensurance for inspection projects

System Prerequisites

- Windows (XP, VISTA, 7 or 8; 32- or 64-bit)

Included with WinCan VX Expert, WinCan Validator checks pipe inspection data for accuracy, completeness and standards compliance. A detailed validation report identifies probable quality issues and suggests fixes.

ADVANTAGES AND FEATURES

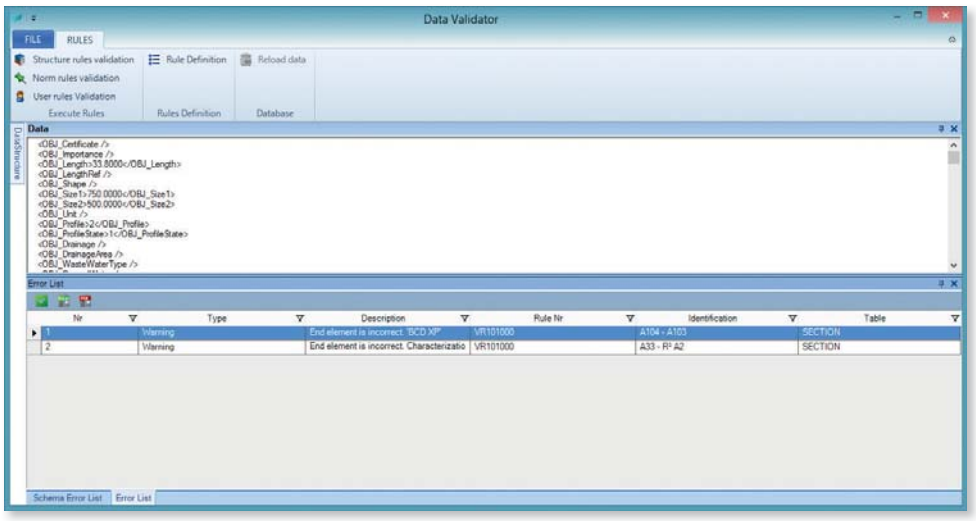
— Identify probable quality issues and how to fix them.

— All problems are fixed directly within WinCan.

— Available stand-alone version tests according to WRc 3/4/5, Isybau, DWA, WSA 2008/2013, Norvar, TV3, Dandas and many more.

— Export all findings to PDF or Excel.

— Verify all required entries are made and all videos / pictures are stored locally.



Database Server Module

Leverage SQL Server or Oracle to accommodate large data sets, multiple users and automated replication

System Prerequisites

- Step 1: A professional server administrator installs an SQL or Oracle server.
- Step 2: The administrator unblocks the server port (typically 3047) in the Windows firewall.
- Step 3: Verify the IP adresses of the client PC and the server are part of the same subnet.
- Step 4: Install a special WinCan network dongle on the server. The corresponding WinCan license file must be copied to the hard disk of the server, as well.
- Step 5: Install the latest version of WinCan VX (download at www.wincan.com / support) on each client PC, along with the a license file.

Centralize your inspection data in an SQL or Oracle database, with corresponding media files archived to a separate folder on the same server. This configuration grants quick access to thousands of sections in a single database, with plenty of bandwidth for efficient filtering and editing. Sections to be inspected or re-inspected can be transfered out to operators, and then merged back into the main database once work is complete.

ADVANTAGES AND FEATURES

— A special input mask allows access to the SQL or Oracle database from the WinCan project manager, where linking parameters for the server can be configured.

— Automatically generate project data for scheduled inspections.

— Automatically re-merge data from completed inspections.

WinCan Data Transfer

Effortlessly merge inspection data from crews to a central database

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- Computer hardware: PC desktop or laptop with minimum 2 GB RAM

With the click of a button, automatically syncronize data gathered by multiple crews with your central database, even if they're working on the same project. The data transfer module also assists with data backup and management of multiple crew licenses.

ADVANTAGES AND FEATURES

— Configuration

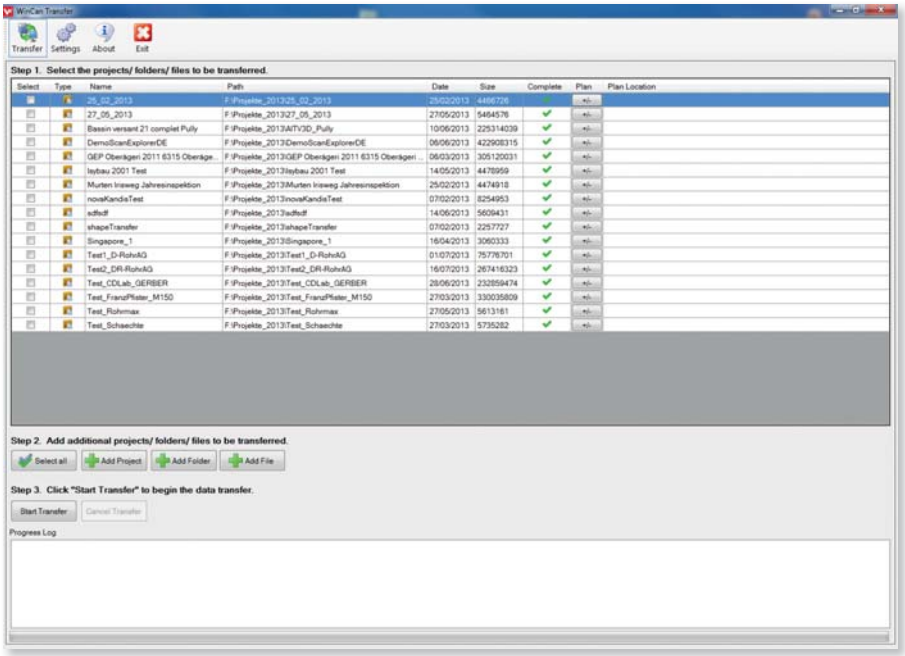
Configure which projects are to be copied, and by what method (A-to-B, FTP, etc.).

— Verification

The copy process is self-monitoring, with any error or interruption immediately logged. If interrupted, the copy process automatically resumes once the source of the interruption is resolved.

— Automation

The copy process runs requires no supervision, and can be run during off hours.



Reportgenerator

Design reports with maximum flexibility

System Prerequisites

• WinCan VX

Build report templates from scratch, or modify canned reports to suit your needs. WinCan Report Generator lets you pull data from any field into a report, and your finished work can be distributed as a PDF or Excel file, or in a variety of image formats (JPG, BMP, EMF, XPA, PNG).

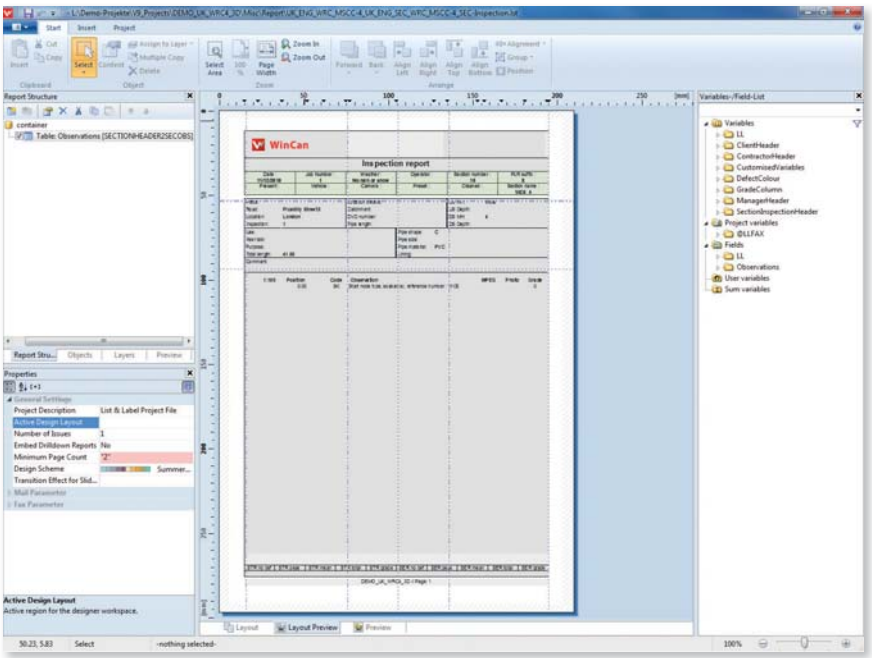
ADVANTAGES AND FEATURES

— **Instant Productivity**

A powerful yet intuitive layout process makes it easy to create beautiful, informative reports, whether you're a beginner or expert.

— **With WinCan Report Generator's real-time preview, what you see onscreen is what you get when you print or export.**

— **Drag and drop objects, variables and attributes directly into your report template. Intuitive layout tools and layered composition make it easy to build reports exactly as you envision them.**



Rule Machine

Automated management for large organizations

System Prerequisites

- WinCan VX

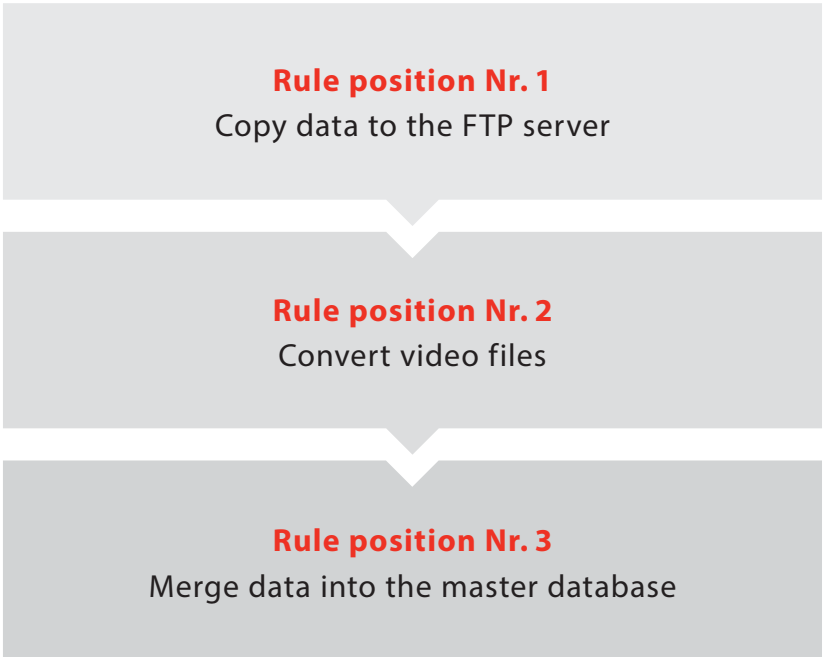
Establish rules to handle common tasks like merging crew inspections, backing up databases, converting video, and uploading inspections to the cloud via WinCan Web. Simply specify when such functions should happen, along with any task specific parameters.

ADVANTAGES AND FEATURES

— **Boost Productivity**

Automating processes with WinCan Rule Machine saves time and reduces the likelihood of error. The status of each scheduled task is logged for easy review.

Example for a rule machine process



Lateral / Satellite

Inspect laterals from a mainline using launch / satellite hardware.

System Prerequisites

- WinCan VX

Municipalities hire lateral inspection to pinpoint illicit flows, find sources of infiltration, and determine responsibility for blockages. Utilities hire lateral inspection to find gas line cross bores before they cause disaster. In both cases, WinCan allows standards compliant capture, analysis, reporting and export of lateral data. When used in conjunction with WinCan Map VX, laterals can be plotted on a GIS map and exported to a DXF file.

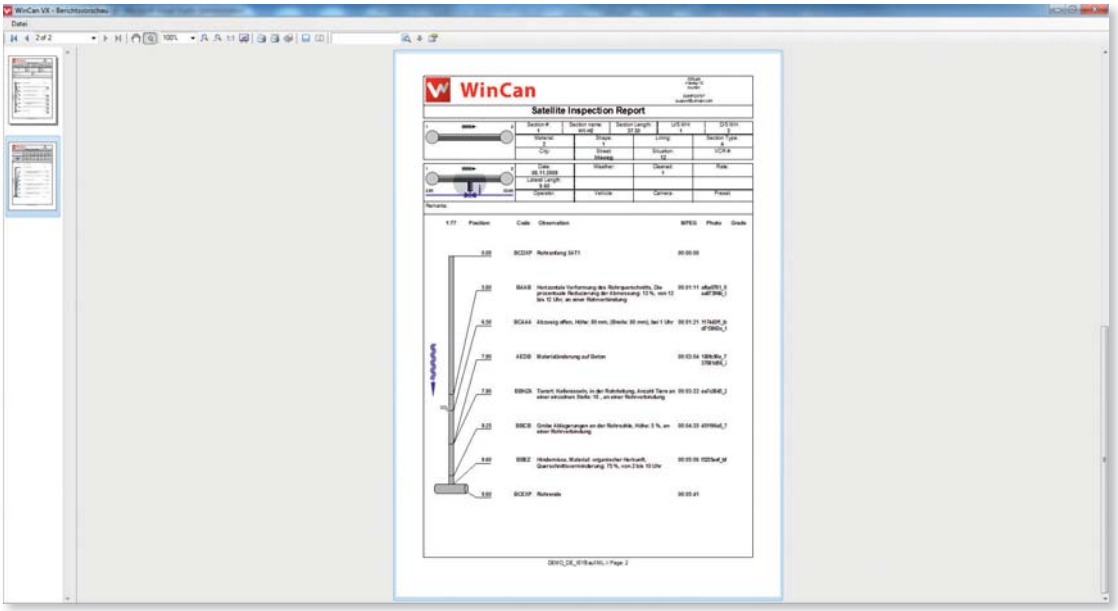
ADVANTAGES AND FEATURES

— Generates lateral-specific reports.

— When used with WinCan Map VX, WinCan Lateral automatically plots data for viewing on a GIS map and export to DXF.

— Access a lateral inspection directly from the mainline schematic.

— As with all WinCan inspection data, WinCan Lateral inspections can be filtered on any field.



Manhole

Gather and report on manhole inspection data

System Prerequisites

- WinCan VX

Capture standards-compliant data for manhole attributes and condition, and then generate manhole-specific reports complete with profile and overhead schematic drawings.

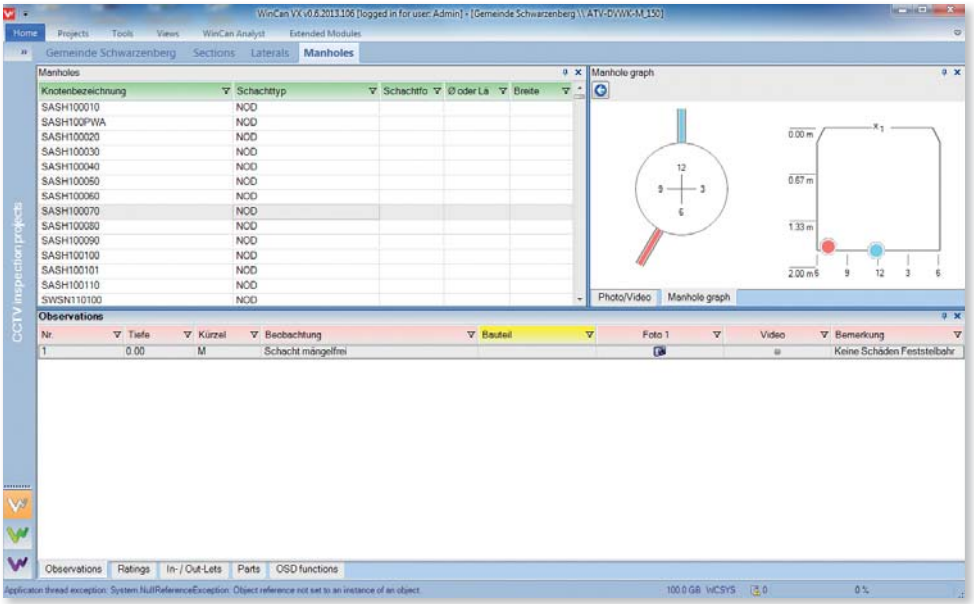
ADVANTAGES AND FEATURES

— **Built-in, customizable reports display manhole inspection data in an intuitive, concise manner.**

— **Capture video with text overlay.**

— **Automatically generate profile and overhead schematic drawings that show manhole number, position, and mainlines feeding in and out.**

— **Optionally perform an evaluation of manhole condition, complete with automated damage classification.**



WinCan 3D

Visualize collection systems in three dimensions

System Prerequisites

- WinCan VX, graphics card with minimum 1 GB RAM

Based on data collected during inspection, WinCan 3D builds a virtual three-dimensional model of pipe infrastructure. Such a model even includes laterals, provided their location, clock position and angle are captured using ProTouch or Photo Assist. 3D models can easily rotated, zoomed and panned, and components of a 3D model can be clicked to highlight the corresponding inspection data (and vice versa). Existing map drawings can be overlayed on WinCan 3D models for fine tuning, and updated drawings can be generated automatically. Ultimately, WinCan 3D models can be added to inspection reports, or exported as DXF files for use in CAD.

ADVANTAGES AND FEATURES

— **Selection of specific assets is synchronized across all aspects of WinCan.**

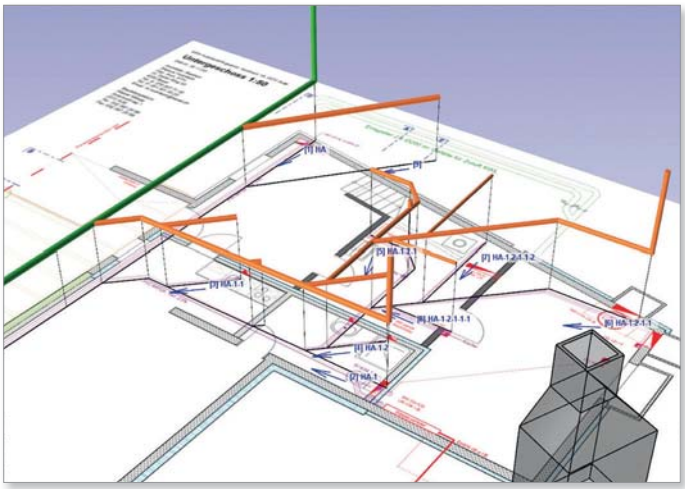
— **Rotate models by moving the mouse while pressing the mouse wheel.**

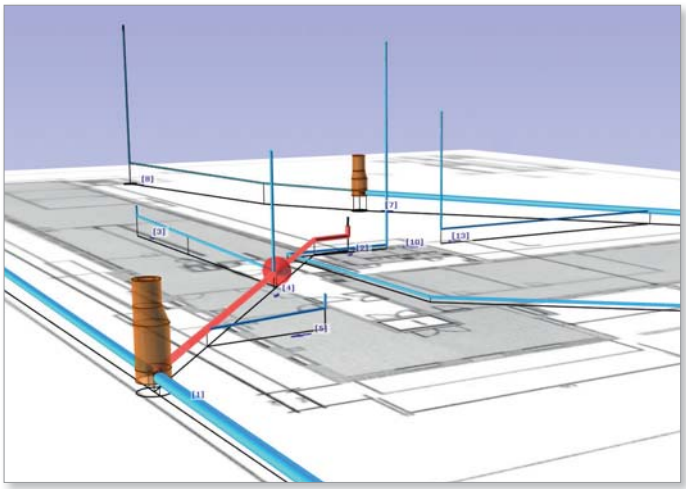
— **Manually correct bend and connection angles directly in the 3D view using the pipe rotation tool.**

— **Visualize pipes and manholes in 3D.**

— **Export infrastructure models in DXF format.**

— **Easily connect assets that have been inspected separately.**





ScanExplorer

Review inspections with greater efficiency and detail

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- WinCan VX

For faster analysis of inspected pipe, ScanExplorer displays pipe image data as a flat strip whose length and height correlate to pipe length and circumference, respectively. Four synchronized views (section, side, front, schematic) make it easy to navigate these scans, and built-in tools allow you to perform measurement and annotation. ScanExplorer displays image data captured using several popular side-scannering platforms: DigiSewer, RPP and Panoramo.

ADVANTAGES AND FEATURES

— **Four synchronized views (section, side, front, schematic) facilitate navigation of entire pipe sections.**

— **Corresponding inclination and height profile data appear alongside scans.**

— **Measurements can be taken in 2D (side view) or 3D (front view).**

— **Scan measurements appear in both side and front views.**

— **Scan measurements link directly to corresponding observations.**

— **Branches and lateral connections are recognized automatically.**

— **ScanExplorer displays image data captured using several popular side-scannering platforms: DigiSewer, RPP and Panoramo.**

ProClean

Professionally document pipe cleaning operations

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- WinCan VX

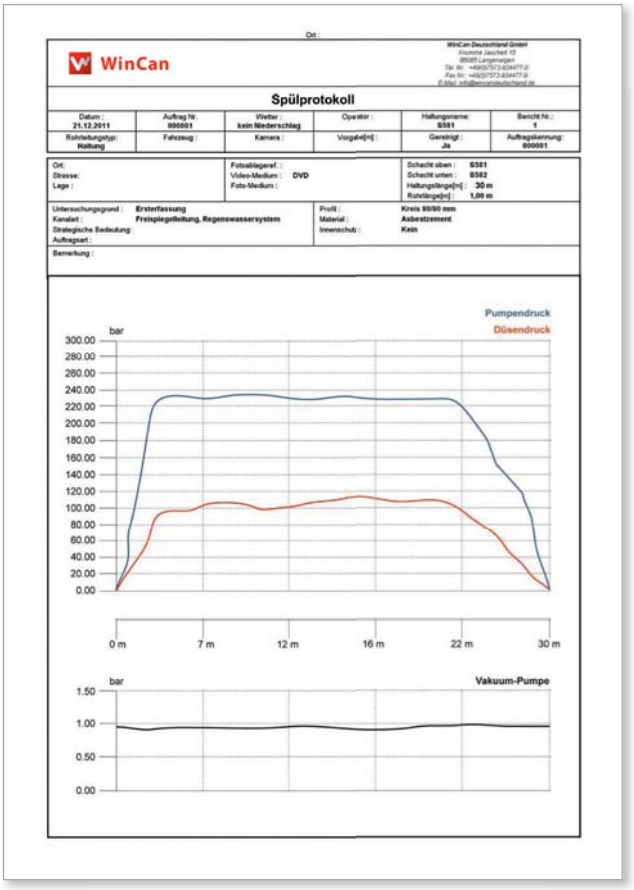
Generate professional reports to document cleaning of Pipe. ProClean consists reporting software, plus equipment that gathers data on the cleaning process using remote sensors.

ADVANTAGES AND FEATURES

— **A touch screen interface with large buttons simplifies operation.**

— **Documenting the effectiveness of their cleaning operations gives contractors a competitive advantage. ProClean gathers complete data regarding how pipe is cleaned, including pipe video, manhole pictures, cleaning pressure, location coordinates, and water usage data.**

— **Documentation can be delivered digitally, or as a printed PDF report.**



Inclination

Track and graph inclination across an entire section using data from an external inclinometer

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- WinCan VX
- Inspection crawler with a built-in inclinometer
- Overlay module
- Proper calibration of inclinometer

Identify sags and potential flow problems by viewing inclination across the length of a section. Inclination data is read from any properly equipped inspection crawler, and then displayed as a line graph. It is stored with other section data, and can be printed as a report.

ADVANTAGES AND FEATURES

— **Capture and save inclination values.**

— **Generate inclination reports in PDF format.**

— **Define inclination limits that activate a warning if exceeded.**

PhotoAssistant

Measure pipe attributes quickly and accurately using image overlays

System Prerequisites

- Operating system: Windows XP / 7 / 8, Professional or Ultimate only
- WinCan VX

By overlaying adjustable measurement lines on live video, PhotoAssist lets you measure bends, branch angles, lateral diameter, flow level and many other features required for standards compliance. Each measured value is automatically transferred to the corresponding field in the active observation record, and stored measurements may be used to construct a virtual model of pipe insfrastructure using WinCan 3D.

ADVANTAGES AND FEATURES

— **Measurement capabilities:**

– connection angle between lateral and mainline
– diameter of lateral
– bend angle inside the mainline
– distance between two points on pipe wall
– cross-sectional area (for root intrusions)
– cross-sectional area (for joint displacement)
– flow level inside mainline

Point Laser

Calculate pipe diameter from projected laser dots

System Prerequisites

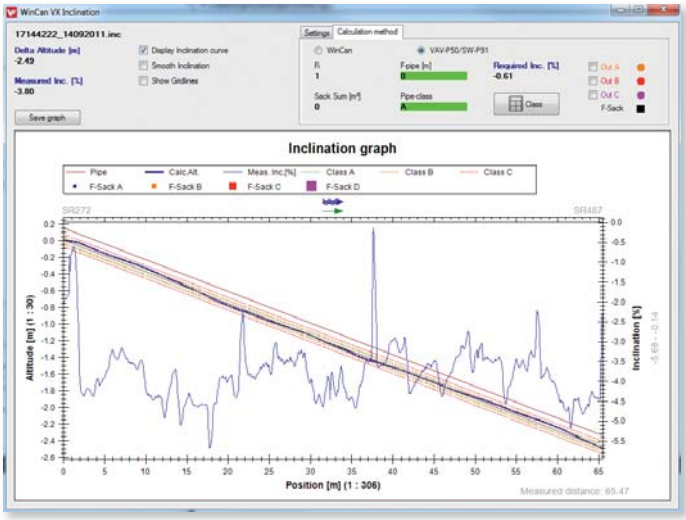
• WinCan VX

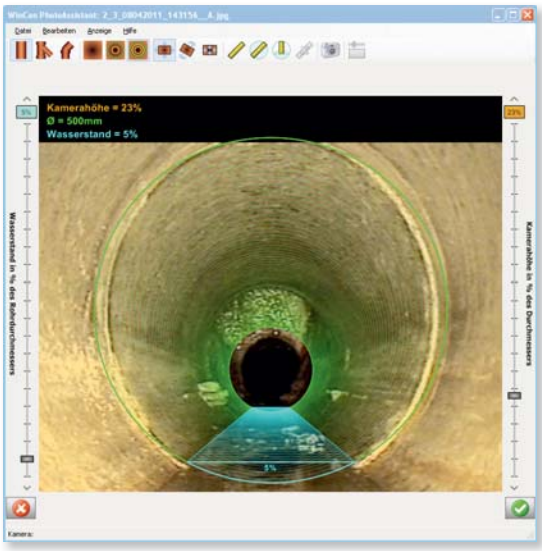
Determine pipe diameter simply by aiming an inspection camera with laser calipers at the pipe wall and rotating it 360 degrees. WinCan Point Laser calculates pipe diameter by isolating the laser dots and tracking the change in their distance on screen as the camera rotates.

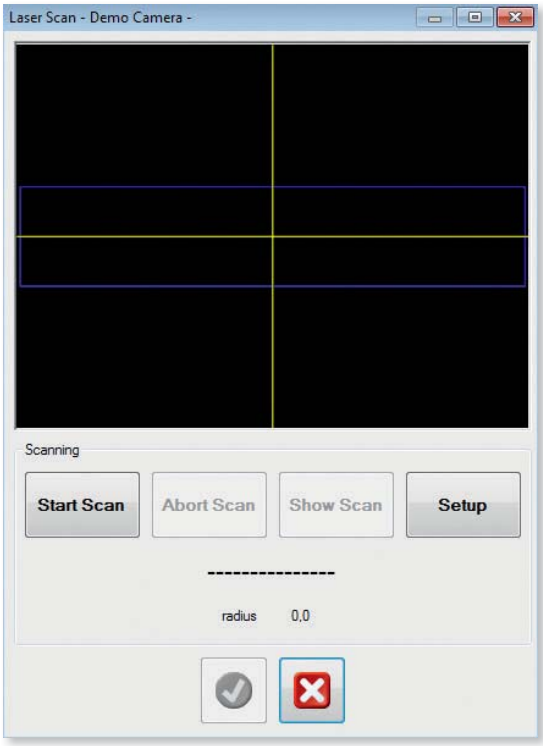
ADVANTAGES AND FEATURES

— **Measure pipe diameter with precision**

— **Select from a variety of supported hardware brands: iPEK, Envirosight, Rico, IBAK, Rausch**







top right: Point Laser
top left: Inclination
below left: PhotoAssistant

MPEG 1 / 2 / 4 and HD Video Creation

Perform high-quality video compression in real-time

System Prerequisites
• WinCan VX

Capture digital video that achieves the best possible balance between quality and file size. This module works in conjunction with a hardware encoder (internal VITEC or external MobileCap124) for real-time capture of MPEG video in any of three standards:

– MPEG1: good quality, consistently low bitrate (small file size)
– MPEG2: very high quality, consistently high bitrate (large file size)
– MPEG4: high quality, variable bitrate (medium file size) including HD (H.264) compression
– For efficiency, the module automatically pauses recording whenever the operator enters an observation.

ADVANTAGES AND FEATURES

— **High quality real-time video compression in MPEG format.**

— **Video recording automatically pauses while observations are entered.**

DivX / MPEG 1

Basic video compression without external compression hardware

System Prerequisites
• WinCan VX
• Hardware driver

Generate compressed video without any special hardware. While this module requires an inexpensive AD converter to digitize video, it does not require the pricier compression boards used with the MPEG 1 / 2 / 4 module.

ADVANTAGES AND FEATURES

— **Simple, easy digital video compression is ideal for push camera users.**

ArcGIS Integration

Streamline the transfer of WinCan data to ArcGIS

System Prerequisites

• WinCan VX

In one step, a WinCan database can be written as a Shape file directly into ArcGIS, eliminating the cumbersome manual transferring of data using intermediate formats.

ADVANTAGES AND FEATURES

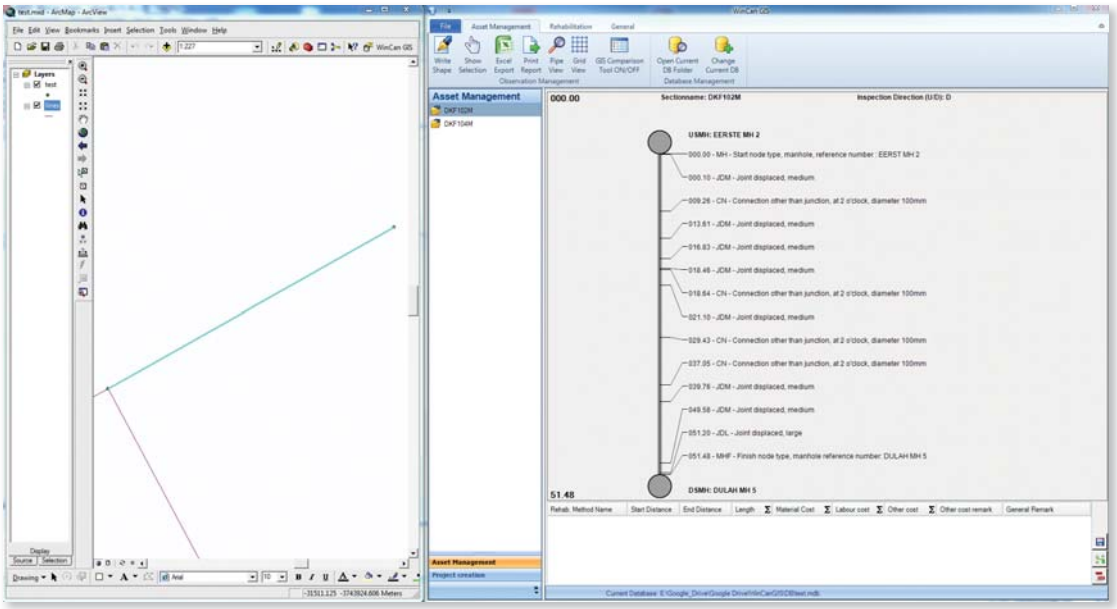
— **Directly integrate WinCan data into ArcGIS without performing conversions.**

— **Wincan GIS outputs observations as Shape files, which contains data like observation coordinates, observation codes, video file names and damage classifications.**

— **Understand at a glance the condition of an entire network.**

— **Automatically compare survey data with GIS data and highlight the differences.**

— **Drag to select elements on a map, then instantly transfer the corresponding section data into WinCan … no more re-entering data.**



Text Overlay

Add dynamic text to video in real time by linking WinCan to your text overlay hardware

System Prerequisites

• WinCan VX

WinCan Text Overlay communicates directly with your text generator equipment to superimpose text on live video. A configuration bar at the bottom of the WinCan interface lets you select what text to display (distance counter, date, time, inclination, etc.), in what position, and at what time. This module supports more than 35 common models of text generator.

ADVANTAGES AND FEATURES

— **Devices currently supported include:**
BCS (BCS System AG), CCk (Spering), DE03SW (iPEK), DE08CO / CVO (iPEK), VisionControl (iPEK), EDE 42 / 49 (IBAK), EDE 69 (IBAK), EDE 7 (IBAK), Gejos (Gejos Kanal-TV), Gullyver (Gullyver), HV100 (Hydrovideo), IP08 (WinCan Europe), IP26 (WinCan Europe), ITV300 (Spering), LisyPCI (IBAK), MegaVOG (Aries), MultiUSB (CDLab AG), Optimess (Optimess Engineering GmbH), P350 (Pearpoint), PDR2k (Cues), PP320 / PP377 (Pearpoint), ProData 2000 / PDR2k-R16 (Cues), sCEC (PS), SG II (JT), SGKST (JT), Software OSD (CDLab AG), SVC1 (PS), SVC2 (PS), T804 (Troglotech), uCDE / DEPC1 (Spering), VIDISYS (WP), VL5000 (Aries),VSR55 (Hytec), WKI

Notes

Notes

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