

RovverX CCTV Proposal

to: Adam Rossing, City of San Marcos
address: 630 E. Hopkins
re: CCTV Equipment
date: October 1, 2019



sewer inspection technology

The Value of Insight

The only thing standing between you and a sewer failure is insight. For more than 15 years, EnviroSight has been perfecting technologies that capture critical insight about pipe condition. Customers across North America depend on this insight to maintain their infrastructure.

Understanding pipe condition demands insight that is detailed, comprehensive and current. EnviroSight makes it possible with equipment that is:

- **Reliable**, so your inspection crew can maximize their productivity and minimize unplanned costs and downtime
- **Designed for safety**, helping you avoid confined space entry, reducing your traffic exposure, and wieldy enough to help you avoid strain and injury.
- **Agile**, so you can overcome obstacles and gather data from deep inside pipes.
- **Precise**, so you can better document, measure, understand and explain pipe condition.

EnviroSight delivers these advanced capabilities through the industry's largest network of sales partners, each offering personalized training, support and service at a regional level.

The logo for EnviroSight, featuring the word "EnviroSight" in a bold, sans-serif font. The "E" is stylized with a green and yellow circular graphic element.

sewer inspection technology

Meet Envirosight

Envirosight focuses exclusively on technologies to assess pipe condition.

We've redefined expectations for pipe inspection crawlers by offering the first steerable six-wheel-drive design, the first fully modular setup that adapts to pipe conditions, and the first digital system to support onboard reporting, online feature updates and cloud-based data sharing.

We've also pioneered entirely new technologies, like zoom inspection and HD video nozzles. These help users gain a comprehensive understanding of pipe



condition with less time and effort, and integrate seamlessly with existing processes.

And we've developed innovative workflows, such as the Phased Assessment Strategy for Sewers (PASS), that help municipalities get more out of their inspection programs.



Envirosight

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Meet Green Equipment

As EnviroSight's exclusive sales partner in Texas, Green Equipment stands ready to deliver on-site support and factory-authorized service. The sales and service personnel at Green Equipment have undergone extensive training, making them your on-call experts for anything related to pipe infrastructure inspection. Additionally, Green Equipment is an EnviroSight-certified service facility, stocking a broad inventory of service parts and capable of performing the full range of preventative maintenance and repairs.



EnviroSight



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Commitment to Support

At Envirosight, we know equipment is only as successful as the team that stands behind it. Our product, service and support specialists deliver industry-leading:



Training: When your personnel are properly trained, your productivity goes up and the risk of injury and equipment damage goes down. You can expect operator and service training—at no charge—when your equipment is delivered, when you hire new operators, and whenever a refresher is needed.



Technical Support: Don't let challenging applications, unfamiliar features and compatibility issues slow you down. Our technical support team is standing by to help you work through whatever challenges arise.



Service: When you need scheduled maintenance or emergency repair, count on our factory-trained technicians to deliver guaranteed workmanship with rapid turnaround.



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Solution Overview: ROVVER X

The one crawler system that makes inspecting pipes simple for beginners, while delivering the capability and productivity larger operations demand.

- Steerable 6-wheel drive
- Modular design for versatility
- Auto-updating controls with self-diagnostics
- Lateral launch, side-scan and laser options
- WinCan VX software included



technical details attached







Deliverables & Pricing

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qty	part no.	item	amount	Subtotal
1	E-RX-SYS-Basic-18	Rover X Basic Mainline Inspection System System includes VC500 Controller with Vision Report Software installed, RAX300 Automatic Cable Reel with 300M (1000ft) cable, wireless remote controller, reel mounting frame, emergency stop cable, RX130 Quick Change version crawler with 3 sets of rubber wheels for 6" to 12" pipe diameter. RCX90 pan, tilt, zoom camera, Pressurization Kit, and Wincan VX entry license.	\$71,500	\$71,500
				
1	564-0900-04	RX Camera Elevator Kit, QCD	\$13,000	\$13,000
				
1	559-0900-03	RX Aux Light w/ Rear Camera, QCD	\$3,700	\$3,700
				
1	569-0900-00	RX Carriage	\$10,300	\$10,300
				
1	E-000-0035-00	Top Manhole Roller	\$400	\$400

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1	E-000-0036-00	Tyger Tail For cable protection from manhole bottom pipe entry	\$70	\$70
4	080-0706-00	ELKA Wheel D120x31 / d12 QCD (Med Grease) 	\$325	\$1,300
4	080-0707-00	ELKA Wheel D150x52 / d12 QCD (Lg Grease) 	\$370	\$1,480
4	080-0711-00	HMS Wheel D120x31 / d12 QCD (Md Aggressive) 	\$560	\$2,240
4	080-0710-00	HMS Wheel D145x52 / d12 QCD (Lg Aggressive) 	\$575	\$2,300
1	E-OUTPOST-RX-V3.0	Outpost Portable Enclosure / Inspection Platform includes washdown system	\$10,350	\$10,350

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1	E-OUTP-GENSLIDEOUT	Generator Slide out Tray Upgrade	\$620	\$620
1	Sunlight Monitor	19" Tru-View Sunlight Readable Monitor	\$1,667	\$1,667
1	E-V-SYS-SPP-109	Verisight Pro Plus 100M (330ft) System System includes reel with 100M (330ft) of push cable, self-leveling camera, control unit with text generation, video recording and digital output, accessory case with 3 skids, USB memory stick, charger, and tooling.	\$10,750	\$10,750



1	E-QV-SYS-AIRHD	Quickview airHD Camera Inspection System Complete system includes WIFI enabled camera head, 2 batteries, battery charger, 16' collapsible pole, 6' pole extension, spring standoff, and bipod.	\$15,000	\$15,000
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1	E-QVA-LASER	Laser Measurement Attachment	\$1,600	\$1,600
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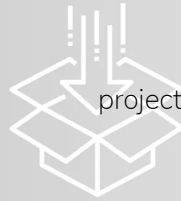


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1	Greenstick	MT202 Ferrous Metal Detector Aids in the detection of covered access points	\$885	\$885
1	VX-UPGRADE-ADVANCED	WinCam VX Advanced License UPGRADE WinCan VX Advanced License UPGRADE includes: Section/Lateral/Manhole, Basic Reporting, Data Viewer, All languages & Standards, Map Entry, PhotoAssistant, Drawing function, Meta DB, Data Transfer Tool, SQL & Oracle database option, Multiple Inspection, Grading, Software Encoding, MPEG 1/2/4 Recording, NASSCO Validator, Text Generator, Inclination, Local deformation & Crack width with laser.	\$4,820	\$4,820
1	VX-INFINITY-ADVANCED-1	Advanced Enterprise Infinity Support Plan Advanced Enterprise Infinity Support Plan includes: Unlimited Phone, Email, and Remote Internet Technical Support Unlimited Maintenance Upgrades and Version Upgrades to WinCan VX 5 Hours per year of Web Ex Training Same Day Support and Service	\$1,148	\$1,148
1	E-PA- PINNACLE	Pinnacle Dazzle Card	\$105	\$105
1	GEC Labor	GEC Orientation and General Set-Up 3 days of time for training, setting up the outpost system, and general orientation to the QVAHD, Verisight, Greenstick and RoverX systems.	\$2,100	\$2,100
1	E-WINCANTRAINING-2	Two Day On-Site Installation and Training includes instructor's time and expenses	\$3,300	\$3,300




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.....total: **\$158,635**

projected delivery: **6-8 Weeks from Order Date**

FOB: **New Jersey, USA**

terms: **Net10**

subject to terms and conditions listed on following pages

Customer is responsible for IT integration and supplying relevant hardware (i.e. computers, tablets, smartphones, etc)

Freight is F.O.B. New Jersey. Estimate total Freight is \$2,000.00 and is to be billed at actual freight cost.

HGAC Contract Number: SC01-18



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Terms & Conditions

Notes: This proposal may be withdrawn if not accepted within 30 days. All equipment remains the property of the seller until the sum stated herein is paid in full. We propose to furnish labor and material, complete in accordance with the above specifications, and subject to the conditions found in this agreement, for the sum stated herein in accordance with the terms as specified:

Expiration Period: March 31, 2020

Payment Terms: Net10

FOB: New Jersey, USA

Currency: USD

The logo for Envirosight, featuring the word "Envirosight" in a bold, sans-serif font. The "E" is stylized with a green and yellow circular graphic element.A close-up photograph of a robotic crawler used for sewer inspection. It features three large, treaded wheels and a camera lens at the front. A yellow warning triangle is visible on the side. The equipment is connected to a cable.

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Warranty

Envirosight LLC (Envirosight) guarantees this product to be free from defects in materials and manufacturing. Envirosight's obligation under this Warranty shall be limited to the repair or exchange of any part or parts thereof which may prove to be defective under normal use and service within one (1) years from the date of original purchase and which our examination, at our facility, shall disclose, to our satisfaction, to be defective. This Warranty is expressly in lieu of all other warranties, express or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on our parts, and we neither assume nor authorize any other person to assume for us, any other liability in connection with the sale of Envirosight's equipment. This Warranty shall not apply to any equipment that has been subject to accident, negligence, alteration, abuse, unauthorized repair, improper storage or other misuse. This Warranty applies only to the original purchaser and cannot be assigned or transferred to any third party without express written consent of Envirosight. The warranty does not apply to expendable items or normal wear and tear or failure due to overheating or radiation exposure. Additionally, Envirosight assumes no responsibility, either expressed or implied, regarding the improper usage of this equipment or interpretation of test data derived from this product. Envirosight's responsibility and obligations, in all cases, are limited strictly to the repair and/or replacement cost as outlined above. This warranty shall be governed by the laws of the State of New Jersey. Note: In the event that the equipment cannot be returned to Envirosight, for whatever reason, the customer agrees to pay for all travel and living expenses incurred to have an Envirosight LLC representative evaluate, assess or affect a field warranty repair.

Envirosight is not responsible for shipping costs. After receiving and evaluating the product, Envirosight's product manager will contact you to discuss the warranty claim.



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Envirosight



POWERX

For More Information, please contact:

Derek A. Dickens, MBA
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Regional Sales Manager
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The Power of One

Safe, Easy and Advanced Inspection Crawler



ROVER X

The Power of One

ROVER X is the one system that lets you do everything—control inspections, view and record digital video, log observations, generate reports, and link directly to asset-management software. All this capability is packed into a simple three-piece layout, with no CCU or other components to clutter your truck.

ROVER X is built on a powerful digital backbone. Not only can you add side-scanning, laser profiling and lateral launch, you can view status from onboard sensors, automate tasks with macros, and measure defects on-screen. And future capabilities are limitless—ROVER X's firmware updates automatically to the latest features and accessory support.

Technology aside, ROVER X is built for the rigors of sewer work. Twelve wheel options—plus camera lift, carriage and lamp accessories—mean ROVER X transforms in seconds to inspect any line. Its steerable six-wheel drive navigates past obstacles, and overlapping wheels climb offsets better than tracks.

ROVVER X

Responsive Controls

Control multiple camera and crawler functions at once. • View live and recorded video directly on controller. • Enhance productivity with custom controls. • Use macros to automate inspection tasks like joint scanning. • Access specialized functions using intuitive touchscreen interface.



camera controls

crawler/reel controls

Recording

Store digital video and images, and export them via USB media or network port. • Review footage directly onscreen.

Reporting

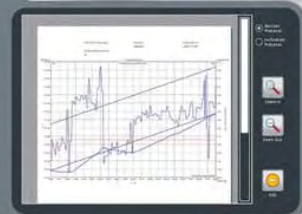
Log observations on touchscreen. • Use standard or custom defect catalogs. • Generate simple reports, or use WinCan for full reporting. • Overlay text on video without external hardware. • View system status and operating history.



observation entry



manhole-to-manhole report



incline report



WinCan export



system status

Envirosight

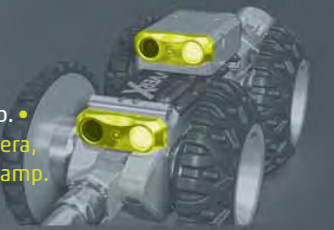


Remote Control

Supplied standard, this single-channel wireless remote lets you control camera, crawler, lift and reel.

Visibility

Capture superior video resolution. • Illuminate distant targets with 50% brighter LED light. • Boost illumination in large pipelines with auxiliary lamp. • See above flow with high-mount rear-view camera, plus additional rear-view camera on auxiliary lamp.



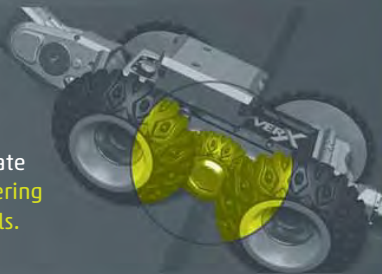
Adaptability

Remotely adjust camera height over 7" range with lift accessory. • Handle pipe of any size, material and condition with 12 wheel options. • Extend height and wheelbase with carriage accessory for pipelines up to 72" diameter.



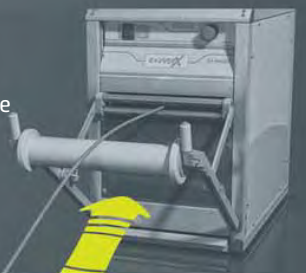
Maneuverability

Control any number of camera and crawler functions at once. • Pivot in place with zero-degree turning. • Use macros to automate tasks (like joint scanning). • Avoid high-centering on offsets and debris with overlapping wheels.



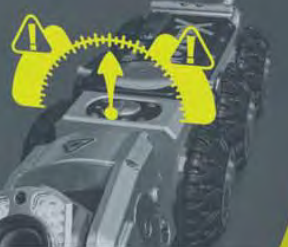
Range

Crawl up to 1000' with standard reel. • Overcome obstacles with unmatched maneuverability and power. • Prevent tangles and maximize range with cable tension control. • Control reel direction, force, speed and mode directly from pendant.



Measurement

Track pipe grade with inclinometer. • Monitor temperature/pressure with onboard sensors. • Locate crawler using built-in sonde. • Easily add laser profiling and side-scanning. • Size defects with twin lasers. • Avoid flips with warnings from roll sensor.



Field-Readiness

Inspect from truck, pickup or ATV using simple 3-component system. • Run off generator or inverter. • Inspect pipelines 6-72" diameter with single, reconfigurable crawler. • Store 1000' of strong, lightweight cable on compact, automated reel. • Transport system in compact, weatherproof enclosure.



WinCan VX software now comes standard with every ROVVER X system. WinCan VX lets you database your inspections, deliver detailed reports, share projects via the cloud, map your data, and achieve PACP compliance.

And upgrading your license gives you access to: technology modules (laser, Digisewer, 3D, lateral launch) • enhanced reporting • network installation and enterprise databases (Oracle, SQL) • links to municipal apps (ArcGIS, Hansen, Maximo, CityWorks, GBA, Cartegraph)

Complete Capability

With many wheel options—plus a detachable lift, carriage and auxiliary lamp—ROVVER X is the only single system that lets you inspect lines 4–96" diameter. With quick-change wheels, you'll be ready in seconds to handle any combination of pipe size, material and condition. (See wheel chart on reverse panel.)

24" and up

24" and up

15"

12"

8"

6"

(down to 4" with available RX 95 crawler body)

Power to Maneuver

ROVVER was the first crawler with steerable 6-wheel drive, giving operators the agility to navigate past obstacles that stop other crawlers.

ROVVER X adds to that legacy with CAN-bus controls, which allow you to perform multiple functions at once. Now you can steer while panning the camera and adjusting camera lift height. Proportional joysticks give you fine control over speed and direction, and also let you pivot in place.

Many Ways to Inspect

► **Digisewer.** Generate side-scans that capture every detail from pipe wall. With Digisewer, you can inspect three times faster than with CCTV—at a cost and learning curve anyone can manage. With the Digisewer laser ring, you can also measure pipe ovality.

◀ **Laser.** Onboard lasers can be used to measure defects and ovality. With an optional laser profiling accessory attached, WinCan's laser module can track cross-section along the pipe to determine ovality and create a geometric model.

► **Lateral Launch.** The ROVVER X SAT lateral launch add-on lets you inspect laterals from a mainline, ideal for finding gas line cross-bores and illicit flows. It integrates with any existing ROVVER X system, reducing cost and equipment clutter.

Onboard Intelligence

ROVVER X uses CAN-bus, the same technology found in modern automobiles. This gives it capabilities not available anywhere else:

Automatic Updates: When connected to the Internet, the pendant updates its firmware automatically, ensuring the latest features.

Concurrent Control: Digital communications let you control any number of camera, crawler and accessory functions at once.



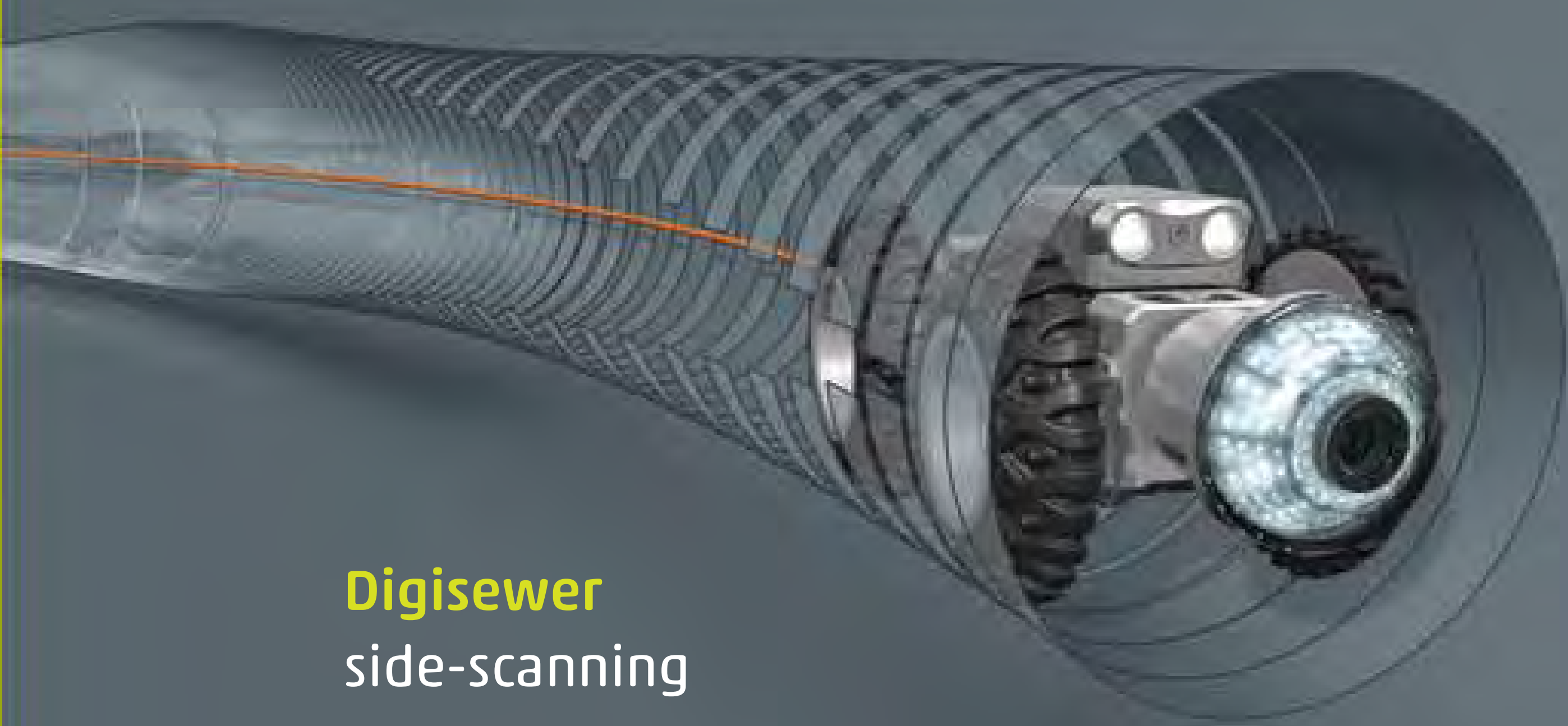
Agility & Uptime: With only six conductors, lightweight ROVVER X cable is easy to pull long distances, and also easy to reterminate. Kevlar gives it a 1000-lb. break strength, and a tough jacket maximizes abrasion resistance.

Future-Readiness: ROVVER X evolves with technology, which means its capabilities can grow with your needs.

Information: Access system status, from real-time sensor data to lifetime service and operating history.

Self-Diagnostics: Connect to a PC with ROVVER X Studio, and our technicians can log in to read error codes and run diagnostics.

.....



Digisewer
side-scanning



SAT
lateral launch

Quick-Change Wheels

Swapping in seconds with no tools, ROVER X quick-change wheels address any combination of pipeline diameter, material and condition.



system

ratings CE, NRTL
power 120-240 Vac, 60 Hz
viewing capability..... pipelines 4-96" dia.

camera (RCX90)

imager color 1/4" CCD
resolution 720 x 576 pixels
zoom lens 120x (10x optical, 12x digital)
pressure rating..... 1 bar
features auto shutter; auto/manual focus
illumination dimmable 40-LED array
articulation ±145 deg tilt; infinite pan
measurement..... twin laser diodes
sensing temperature, pressure, pan/tilt
size 6.6" x 3.1" x 2.8" (168 x 81 x 72 mm)
weight 3.3 lb (1.5 kg)
materials aluminum, stainless steel

crawler (RX130)

wheels 6
turn radius..... down to 0.0"
camera color rear-view with tri-LED lamp
sensors..... pitch, roll, temperature, pressure
pressure rating..... 1 bar
size 12.2" x 4.4" x 3.2" (310 x 111 x 90 mm)
weight 13.2 lb (6 kg)
materials aluminum, stainless steel
sonde transmitter 33 kHz / 512 Hz

control pendant (VC200)

controls twin joysticks; push-button
controls (power, lamp intensity, camera lift,
zoom, focus, reel mode, pull force, crawl
speed/direction); 10 soft keys; touchscreen
touchscreen 8.4" color (800x600 pixels)
video capture..... MPEG-4 (H.256)
image capture JPEG
storage..... external USB; internal flash (64 GB)
connectivity Ethernet
size 13.5" x 9.3" x 3" (342 x 236 x 75 mm)
weight 4.4 lb (2 kg)
firmware VisionControl (auto-updating)
bundled software VisionReport

aux. lamp (optional)

lamps four (4) tri-LED lamps
dimensions... 4.6"x5.2"x5.2" (117x132x132 mm)
materials aluminum, stainless steel

For More Information, please contact:

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cable reel (RAX300)

cable length 1000' (300 m)
cable diameter..... 1/4" (6.5 mm)
cable weight..... 0.03 lb/ft
cable strength 1000 lb
cable conductors 6
controls (local) power, emergency stop
controls (via pendant)..... auto/manual, speed,
forward/reverse, pull strength
sensors..... tension, tilt
size 24.2"x12.4"x19.3" (620x315x490 mm)
weight 68.3 lb (31 kg)
connections..... pendant, service, video in/out

camera lift (optional)

lift range 3.1-10.2" (132-312 mm)
materials aluminum, stainless steel

carriage (optional)

wheelbase (w/l)..... 14.5"/12.2" (368/310 mm)
weight 34.2 lb (15.5 kg)
materials aluminum, stainless steel

aux. lamp/rear camera (optional)

forward illumination twin tri-LED lamps
camera color rear-view with tri-LED lamp
sonde transmitter 33 kHz / 512 Hz
materials aluminum, stainless steel

basic system

- RX130 crawler body
- RCX90 camera head
- RAX300 reel with 1000' cable
- VC200 control pendant
- VisionReport software
- WinCan VX software (basic)
- single-channel digital wireless remote control
- small rubber wheels (6)
- medium rubber wheels (4)
- medium grease wheels (4)
- climber wheels (2)
- large rubber wheels (4)
- crawler body transport case
- camera head transport case
- tools (wrenches, pressure kit)

options/accessories

- laser profiler
- DigiSewer side-scan camera
- lateral launch crawler/reel
- remote camera lift
- large-pipe carriage
- large- and small-dia. crawlers
- aux. lamp/rear-view camera
- desktop mount for pendant
- USB media for pendant
- wheel sets (see chart on flap)
- cable management accessories
- lowering devices
- WinCan VX software (advanced)
- other accessories



www.envirosight.com

(866) 936-8476

111 Canfield Ave., Unit B3
Randolph, NJ 07869

Regional sales, support and service
across North and South America.

The industry's most
extensive network of
service partners.



We've analyzed the preferences of our inspection vehicle customers to identify the most popular configurations. We offer these as our Preferred Build-Outs.

We can also build inspection vehicles of any chassis and size, with production facilities on each coast for responsive delivery. We stock select chassis and boxes, and can retrofit new systems into existing trucks.

For More Information, please contact:

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inspect sewers from a pickup or ATV

**underground
understood**

The rugged, weatherproof Outpost inspection transport enclosure powers, protects and organizes all your sewer inspection equipment, including crawler, cable reel, monitor and computer. A slide-out drawer holds 500 lb of accessories, and a partitioned video compartment stows the crawler, controller, reel, computer and monitor.



Welded aluminum construction has epoxy finish and gasketed doors.

Swing-up hood shields operator.

Blinders and flat interior reduce glare.

Shelving holds video/crawler gear.

Drawer compartments hold 500 lb.

Fork skids facilitate installation.

Optional washdown helps with cleanup.



lots of room

Easily deploy your crawler system, generator and wash-down system.



secure

Rugged, lockable construction protects your valuable equipment.



perfectly organized

Work efficiently with everything in its place and easy to find.

For More Information, please contact:

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insight
unleashed

 **quickview**[®]
airHD

an instant,
wireless view
into any sewer



Envirosight

sewer assessment

that unleashes
your insight

A complete sewer assessment is essential to prioritizing CCTV and maintenance activities, planning cleaning and rehab work, and meeting regulatory obligations.

Quickview airHD makes it easier, faster and more affordable to assess sewer condition, offering productivity features like:

- | | | |
|----------------|----------------------|----------------------|
| HD video | wireless operation | touchscreen controls |
| motorized tilt | hands-free stability | remote centering |



Quad Haloptic. Our patented Haloptic technology gives you more illumination farther into the pipe with optimum alignment at every distance. The new Quad Haloptic configuration uses four offset reflector/lamp pairs to fully encircle the camera with powerful light.

HALOPTIC

Smart Center. To adjust camera height in-manhole, push against the standoff's gas spring to the desired height; a ratchet then holds your position.

Wi-Fi. Wireless control and video eliminates cables and allows live video sharing on multiple devices.

Connection. Connect to any Quickview airHD in range, either in control or view-only mode. Download app updates to access new features.

Status Bar. Monitor illumination, zoom and tilt, as well as Wi-Fi signal and battery (for both tablet and camera).

Capture. Record video and capture still images to the media library.

HD Zoom

Tilt

Illumination

Media Library. Browse media thumbnails, then review, annotate and share footage.

Text Overlay. Configure on-screen display of text, including variables like zoom, tilt and GPS coordinates. Modify text color and position.



- camera head
- pole
- standoff
- bipod
- battery (2)
- battery charger
- case
- app (*tablet device not included*)



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video system

imager	1/2.8-type CMOS
zoom	360× (30× optical, 12× digital)
resolution	1280×720 pixels (2.38 megapixels)
functions	zoom
	focus (auto/manual)
	shutter (auto/manual)
	sensitivity mode
field of view (hor.)	63.7 deg (wide) - 2.3 deg (tele)
sensitivity	1.4 lux

system	Quad Haloptic (four LED/reflector pairs)
illumination type	coaxial, collimated
reflector type	proprietary

connections	4-pin auxiliary port
depth rating	10' (3m)
construction	aluminum, rubber, acrylic
sensors	temperature, pressure, incline

Wi-Fi standard	IEEE 802.11b/g/n
frequency range	2.400–2.483 GHz
operating channels	1–11

extension range 18.9" (480mm)
pipe diameter compatibility . . . 6-48" (DIN 150-1200)
mechanism . . . gas spring with reciprocating ratchet

battery quantity	2
battery capacity	3.4 A-hr.
battery charger	mains power

length (collapsed/extended) 4'/16' (nominal)
stabilization detachable hands-free support

supported OS Android, iOS, Windows

The image shows a VeriSight PRO Pipeline Video Inspection System. It consists of a ruggedized laptop with a custom keyboard, mounted on a yellow metal frame. A large black cable is coiled around the frame, leading to a camera head with a lens and a light. The background is a faded image of a person in a hard hat and safety vest, holding a tool. The VeriSight PRO logo is in the top right corner.

VeriSight™
PRO

***Pipeline Video
Inspection System***



Total Inspection Productivity

VeriSight Pro has everything you need to inspect pipes, document your findings, and generate reports for on-site delivery*. It captures detailed footage under challenging conditions, and its advanced interface offers robust tools—including observation entry and reporting options—and has USB and SD media bays for easy offload of data, video, images and reports.

Reel

Welded steel construction with a protective powder coat finish mean VeriSight Pro's reel stands up to the punishment of daily field use. It's sealed slip ring ensures reliable operation, while measurements from the integral distance counter appear onscreen. The VeriSight Pro reel is available in three sizes:



Envirosight LLC

VeriSight™
PRO

Offloading video, images and data is as simple as plugging in a USB stick or SD/SDHC card.



* Observation entry and reporting modules are available as options.

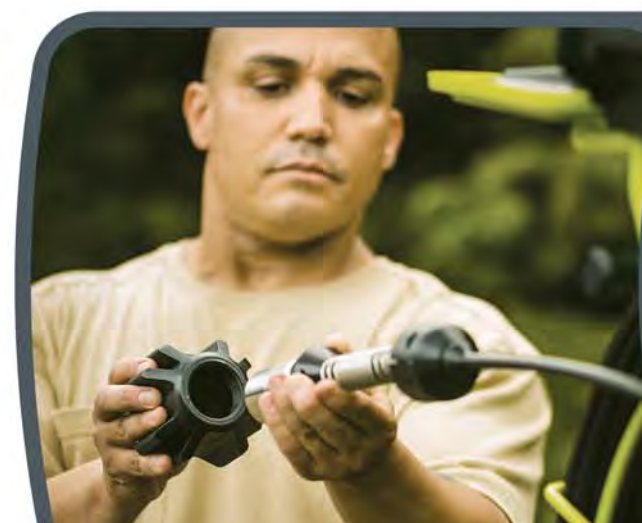


Controls

VeriSight Pro's interface displays real-time footage on an 8" LCD, records up to 90 hours of video to internal memory, and offers the option to enter observation data for upload directly to WinCan. With its customizable interface, you can zoom video 3X, capture still images, enter up to 16 pages of text, browse thumbnail galleries, and select among several available languages. Housed in rugged ABS plastic with an IP54 rating, the controller runs off mains power, vehicle power, or an internal rechargeable 6-hr battery.

Camera

VeriSight Pro's self-leveling camera captures crisp color footage from pipes 2" in diameter and larger. LED lamps deliver variable-intensity, shadowless illumination adjustable to 12,500 lux (at 6"). The camera's stainless construction withstands harsh conditions, and its unique spring facilitates navigation through bends and P traps. The signal from its tri-band sonde can be picked up by most any locator.



Data Entry & Reporting

VeriSight Pro is the only push camera available with optional data entry and reporting capabilities. With these options, you can enter standards-compliant observations using onboard defect catalogs, and then generate reports (right) and save them to USB media. Imagine—your client gets a deliverable before you leave the job site!



You can also export observation data seamlessly to WinCan software (sold separately) and benefit from: database capabilities • PACP and LACP compliance • GIS integration • advanced technology modules • enhanced reporting • support for network installation and enterprise databases (Oracle, SQL) • links to municipal apps (ArcGIS, Cartegraph, CityWorks, GBA, Hansen, Maximo)

WinCan



In 3" pipe (top) and larger.

Though VeriSight Pro inspects pipes as small as 2", you can optimize your view in lines 3" and larger using the supplied adapter kit (includes three centering devices, maneuverability collar, and wrench for quick installation).

VeriSight Pro's self-leveling head keeps video upright, so you can maintain your orientation.





Functionality At Your Fingertips

Capture Footage. Grab MPEG video and JPEG images, and zoom up to 3X on video.

Enter Observations. Use optional data-entry module to log inspection findings.

Review Footage. Organize videos and images in folders, then find them using the thumbnail gallery. Review media using standard controls.

Generate Reports. Use optional reporting module to generate an inspection report, then transfer it to USB media for on-site delivery.

Offload Data. Copy video, images and data to USB or SDHC media for easy transfer to PC and seamless integration with WinCan's reporting and querying capabilities.

Write Screen Text. Type and store up to 16 pages of onscreen text. Customize text color, position and background color.

Control Hardware. Set sonde frequency, adjust illumination, and zero/offset footage.

Configure Preferences. Set language and date/time; establish file formats and naming conventions; adjust camera parameters; choose interface theme and power-saving scheme; update firmware.



Use the VeriSight Pro control unit to view, record and annotate inspection footage from any composite video source.

System

video format selectable NTSC or PAL
battery 6-hour lithium-ion
charging mains power (100-240 Vac) or vehicle
power (12 Vdc) using supplied adapters

Controller

display 8" TFT LCD (800×600 pixels)
keyboard full QWERTY membrane keyboard
with function keys and navigation pad
video recording MPEG4 (WinCan compatible)
image capture JPEG (live or from recorded video)
text overlay 16-page (selectable text/background colors)
internal memory 16 GB (expandable to 128 GB)
external media SDHC and USB 2.0
language support English, Spanish, French
connections power, reel
environmental rating IP54
weight 6.6 lb (3kg)
size 17.1" × 9.8" × 5.5" (435 × 250 × 140 mm)

Camera

imager 1/4" color CCD with DSP
effective pixels 512×582
resolution 470 HTVL
sensitivity <1.0 lux
aperture / field of view F2.5 / 75 deg
image orientation auto-leveling
size 1.61" (41 mm) dia.
illumination system 4 LED
illumination intensity adjustable (up to 12.5K lux at 6")
construction stainless steel
pipe compatibility 2" (50 mm) and up
sonde 33 kHz, 512 Hz, 640 Hz (selectable)

Reel

construction welded steel
finish powder coat
distance counter units feet, meters
controls reel brake, reel lock
130' (40 m) reel

weight / height 33 lb. (15 kg) / 24.4" (620 mm)

200' (60 m) reel with wheels

weight / height 44 lb. (20 kg) / 35.0" (890 mm)

330' (100 m) reel with wheels

weight / height 66 lb. (30 kg) / 37.8" (960 mm)



System Components

- push rod reel
- illuminated, self-leveling color camera with sonde
- control unit with internal battery
- reel-to-controller cable
- car power adapter
- mains power adapter
- pipe adapter kit
- 8 GB USB drive
- components case

Options

- observation entry module
- reporting module
- composite video input pigtail
- SD/SDHC card for data storage
- replacement camera windows
- roller skids (below)



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Specifications subject to change without notice.

Packages

at-a-glance



WinCanVX ENTRY

ENTRY Package Plus:

- Unlimited View Ware
- NASSCO PACP Standard
- Photo Assistant
- Drawing Functionality
- Project Meta DB
- Data Transfer Tool
- SQL & Oracle DB Connectivity
- Multiple Inspections



WinCanVX OFFICE

Includes ENTRY Package Plus:

- WinCan Validator
- Deformation Measurement
- Crack Measurement
- NASSCO LACP, MACP, PACP Standard



WinCanVX ADVANCED

Includes OFFICE Package Plus:

- Text Generation Control
- MPEG 1/2/4 Capture
- HD Video Capture
- Inclination



WinCanVX EXPERT

Includes ADVANCED Package Plus:

- Report Generator
- WinCan 3D
- WinCan Analyst
- ESRI GIS Connection
- Asset Management Integration
- Work Order Management

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NEW

WinCan VX and its main advantages

WinCan VX lets you invest in the functionality you require today and then add capabilities as future needs arise. Value bundles make essential functionality affordable even for the smallest water authority or contractor with the assurance that down the road you can expand functionality. Growing organisations demand versatility and WinCan VX scales to meet all your future needs.

For more information: www.wincan.com

Cloud compatibility

Securely publish inspection data, images and video to the cloud using your own server or WinCan's. An authorised user can view up-to-the minute results on any platform using a common Web browser. No more versioning issues or missing codecs, WinCan Web brings data effortlessly to the cloud.

Modern user interface

WinCan VX has a new user interface which adopts to any screen size and the main screen is completely customisable.

Newest Video Technology

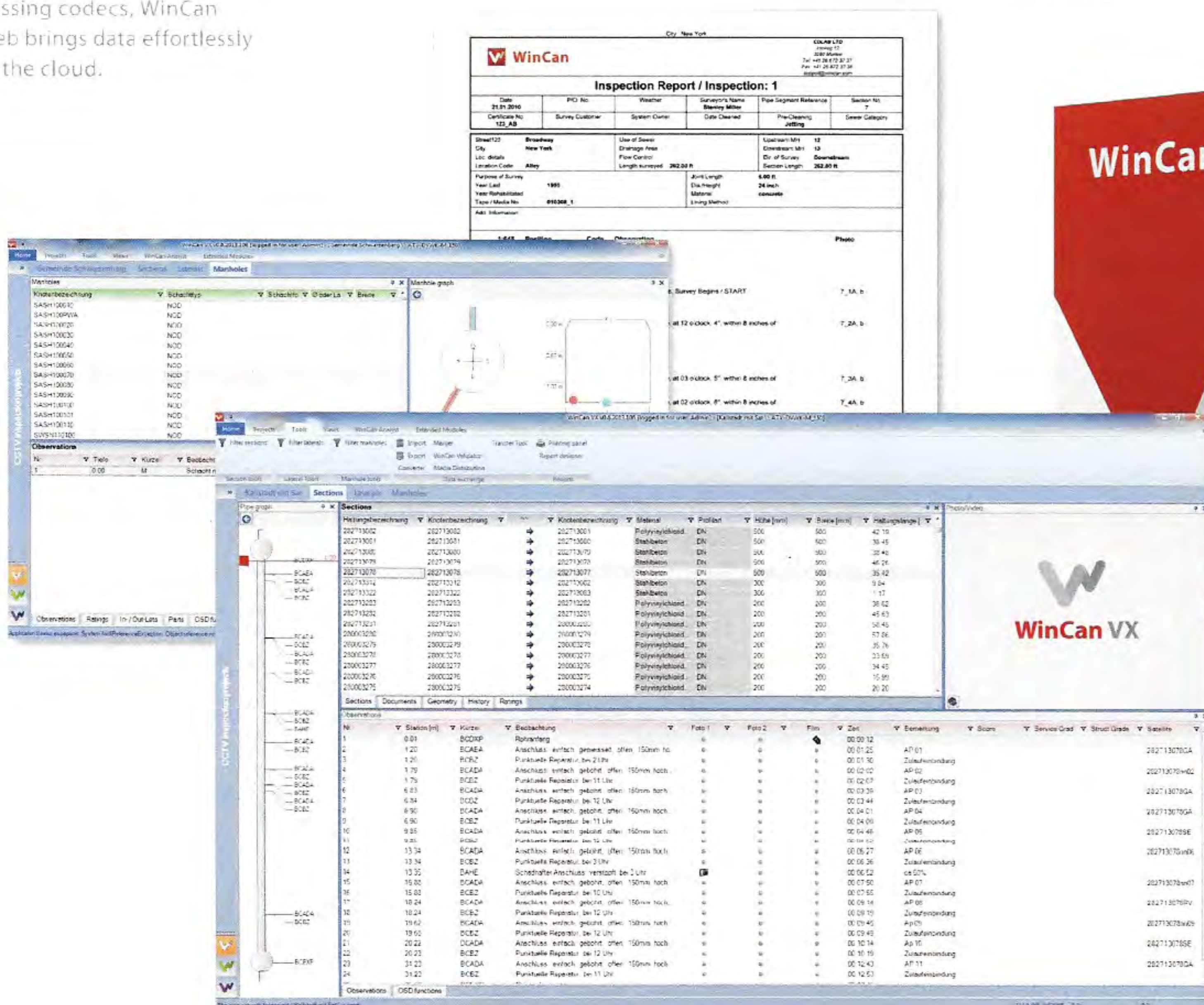
WinCan VX integrates with the newest video drivers and hardware available on the market.

GIS & Mapping

WinCan VX's full-featured GIS implementation makes it easier than ever to manage infrastructure data using GIS as the front end. Simply click and drag on a map to create entire WinCan projects with pre-populated section data.

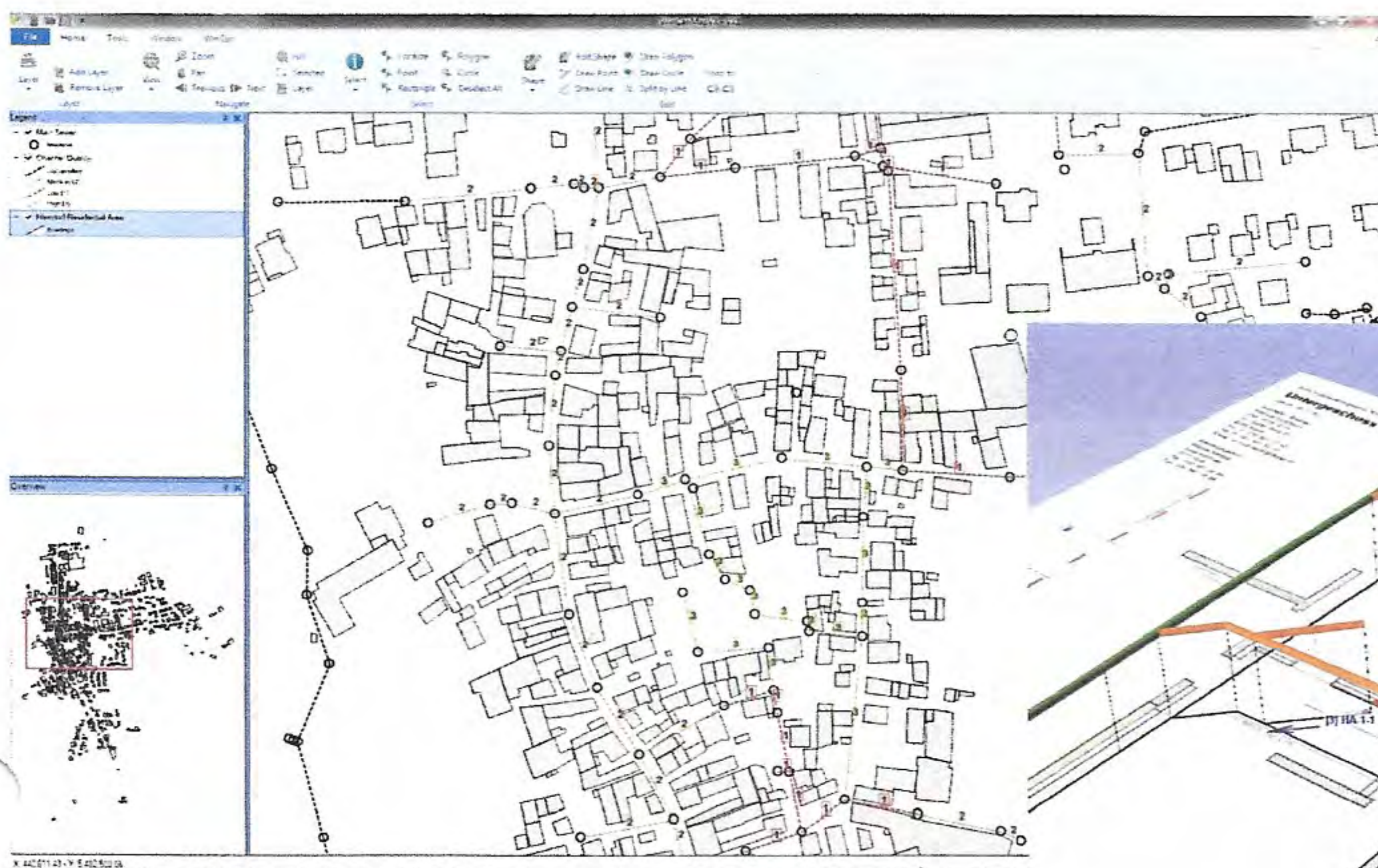
WRC MSCC5

WinCan VX includes the new data collection standard MSCC5.



User interface	Customization of user interface	✓	—
	Customization of font size / type	✓	—
	Adjustment of screen size / resolution	✓	—
	Modern screen layout	✓	—
Data analysis	Pipe graphic on main user interface	✓	—
	Quick observation entry	✓	—
	Beginner's observation entry	✓	—
	Data synchronization with office database	✓	—
	3D preview of pipe & manhole	✓	—
	List & label report generator	✓	—
	Creation of project statistics	✓	—
Video technology	MPEG 1 / 2 / 4 with USB grabbers	✓	—
	Software OSD with colours	✓	—
Sensor technology	Sonar sensor compatibility	✓	—
GIS / Mapping	Basic MAP software included	✓	—
	Show grading on map	✓	—
	WorldWide background satellite maps	✓	—
	ArcGIS integration	✓	—
	Heatmap analysis for rehabilitation priorities	✓	—
	WinCan Web connector	✓	—
Cloud compatibility	Streaming of videos via a web browser	✓	—
	Streaming of photos via a web browser	✓	—
	Streaming of reports via a web browser	✓	—
	Central & secure data storage	✓	—
Services	Future standards	✓	—
	Future operating system support	✓	—
	Client specific customisations	✓	—

Users with a comprehensive maintenance plan receive VX upgrades for no additional charge.
WinCan VX is PACP & MACP & LACP 6 certified!



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