

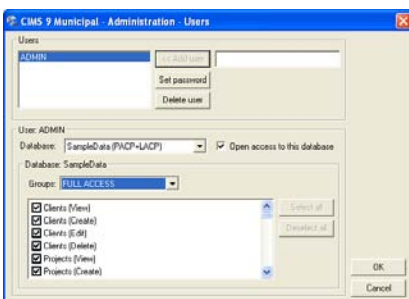
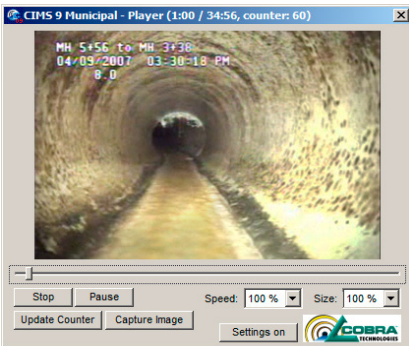
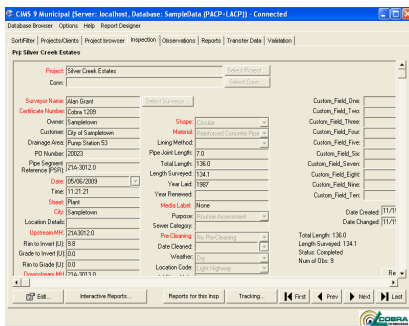


Cobra Information Management Software

Manage Data without Complex Work Management Programs



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Why CIMSV9?

Cobra's Development of the CIMSV9 Program resulted from a total void of databases specifically designed for storage of video inspection data. Cobra created CIMSV9 to provide Cities and Municipalities with comprehensive easy-to-locate inspection data for quick review without the need to utilize complex Work Management Programs. Video files linked to the data are easily accessed from CIMSV9, enabling remote workstations to review video files on the network.

CIMSV9 is PACP 4.4 certified. This feature allows CIMSV9 Users to import data into CIMSV9 from any PACP compliant video inspection van.

CIMSV9 is not designed to replace existing Work Management Programs. It is meant to manage inspection data and review video and image files either in a stand-alone environment or on a network.

A Client-Server Package manages the inspection data, allowing an entire office to access the data and video from a server. The CIMSV9 program is operating throughout North America and the United Kingdom.

Inspections from the Cobra Data Logger in the video inspection van are transferred into CIMSV9 electronically through a simple import process specially designed to upload the data from the field to the office. The open architecture of the CIMSV9 database allows data to be exported in multiple formats for use in engineering programs, work management programs and GIS programs. In addition, CIMSV9 can display and print graphical reports for use

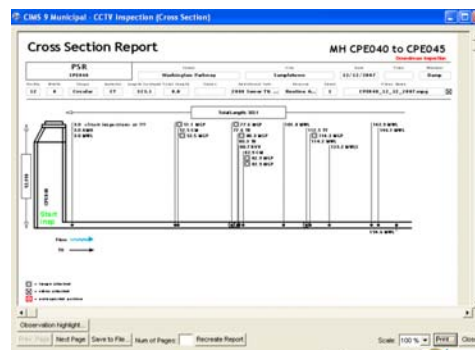
by Management.

THE DATABASE

The CIMSV9 Data Management software can be installed as a stand-alone single user database, a shared small network data application or a client/server configuration powered by Microsoft SQL Server. The database is designed to store and manage data from pipeline inspections data collection equipment.

The software utilizes Microsoft SQL Server, a robust engine designed and optimized for use on smaller computer systems, such as a single user computer or small workgroup server.

The system software for data acquisition



incorporates standardized Microsoft Database formats. Separate Client, Project and Inspection data tables allow increased scalability based upon job size. Inspection files can be exported into other data-

base file formats or onto other computers. The Open database structure allows customization of work order headers, coding protocol and code ratings. The user may also validate any formatted file for compliance prior to import.

INSPECTION VIDEOS

The database is capable of linking MPEG compressed video collected on a video compressor installed in the truck and up to five still images per observation. MPEG video files are viewable with Windows media player thereby permitting any user with a PC to play back the video inspections from the CD/DVD/HD. The user has



the option of up to 1000% increased speed playback to reduce time spent reviewing video of lines. The user can also select to view only those defects with a weighted value of 1-5 for PACP. The video playback will slow to display only those observations with a value selected. This option greatly reduces time spent in reviewing inspections.

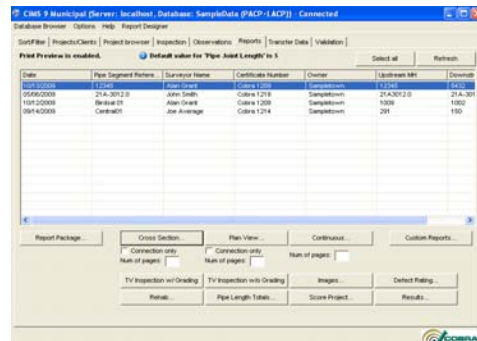
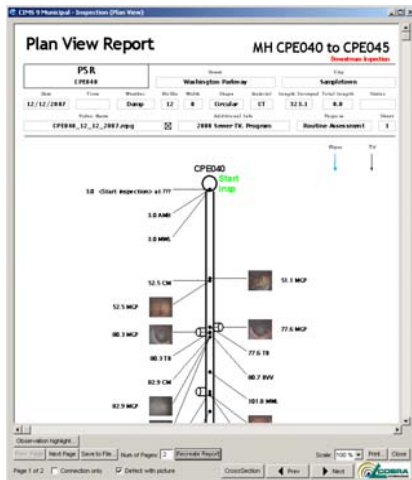
Each report may also be saved as a standard .wmf or .bmp file, which may be shared and viewed by anyone using a Windows operating system. A viewer for these files is provided and is freely distributable.

INSPECTION REPORTS

CIMS generates pipeline inspection reports with captured images of defects or other related significant visual informa-

IMAGE CAPTURE

While reviewing inspection videos, the user has the ability to capture JPEG images and attach them to observations. Up to 5 images may be stored for each observation.



GENERAL FEATURES

- Management multiple projects
- Data collected in the field is transferred to the CIMS™ database for analysis, management, storage, and report generation
- Open Architecture database and functionality enabling data transfer from the CobraTouch™ Data Logger into CIMS™ and Work Management and GIS programs such as GBA, CityWorks or Hansen
- Reports designed for maximum clarity and readability - Conventional Reports, Cross Sections, Plan Views and Image Reports plus a host of other reports available
- Incorporates extensive built in sort/filter options and rehabilitation modules
- Work order labels may be modified
- CIMS™ has a PACP standard and a WRc Sewer.dat output transfer capability allowing Users to import/export data to standardized formats
- Windows based Data Management program. Windows XP, Vista and 7 Compatible. Locally installed single user database or multi-seat client/server network
- Can be installed with CobraTouch™ Data Logger for use in field
- CIMS™ data linked to video collected in the field by the CobraTouch™ Data Logger permits users to view video from a server with instant access to specific locations on the video inspections with just one click
- Digital video links are created automatically in the database when CIMS is pointed to the drive containing video files providing for a bidirectional indexing system of video files.

All Specifications subject to change.



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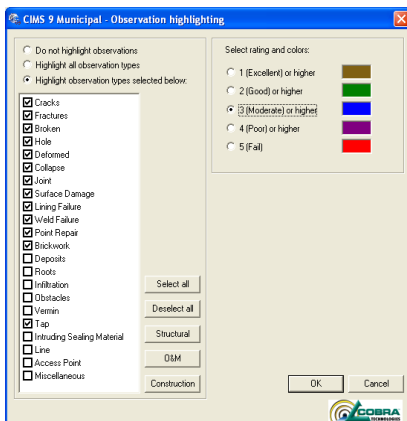
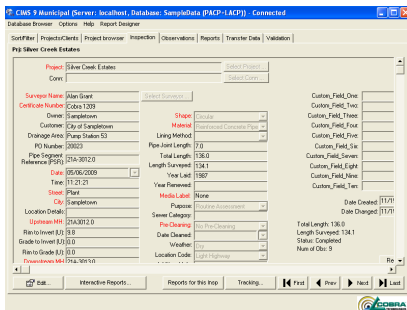


Cobra Information Management Software

Specifically designed to view and manage video inspection data



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VIDEO PLAYER FEATURES

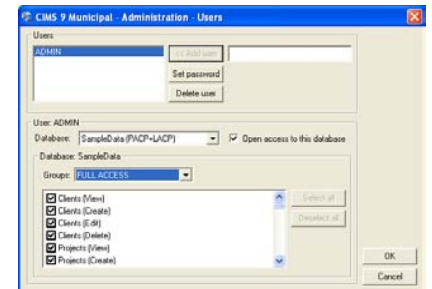
- Linear video playback at 50, 100, 200, 500 and 1000% increased speed
- Group code highlights, such as Roots, for video playback of only those observations
- Code value highlight by rate for playback, for video playback of only those observations with a value of for example, level 4 or higher
- Resizable video playback screen 50, 100 and 200%
- On-screen controls for Contrast, Brightness, Saturation, and Hue
- Easy video linking with directory scanning and reporting
- Easy still shot linking with directory scanning and reporting

DATA TRANSFER

- PACP 4.2, PACP 4.4 Import/Export Standard
- XML transfer for WRc V4, Sewer.dat, sewerI.dat for WRc V3/V4
- Export data and media to CD, DVD, or remote hard drive with embedded linked database viewer built in
- Built in validation tool for all database formats with printable error reports. Can be used to review multiple database sources for errors prior to import.

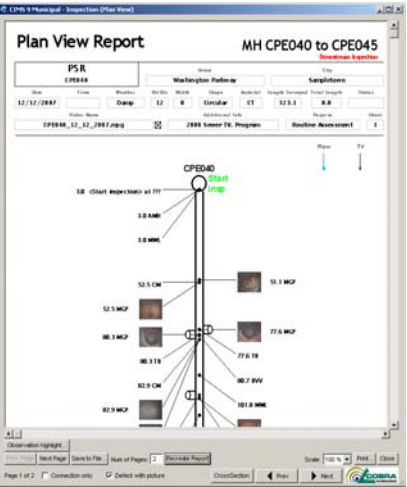
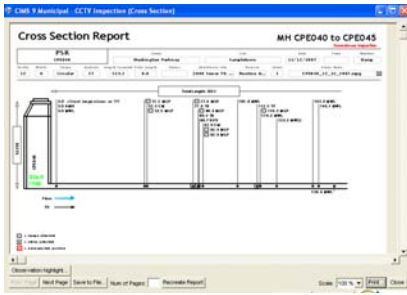
DISPLAY AND FILTERS

- Configurable display for each tab view and each import screen
- Filter on any field, Sort on any field, save filters for re-use
- Selectable default Media Directory for all videos and pictures
- Human Readable text for all codes



REPORT GENERATION

- Cross Section and Plan View print outs with all defects
- Image report displaying footage, observation text, time and embedded picture
- Continuous Defect report displaying span of structural and operation and maintenance defects within pipe segment
- Pipe Length totals report calculates differences between Total Line Length and Length Surveyed, can be used as GIS review tool
- Detailed Inspection Results
- Database Validation reports
- Data Import details report
- Project scoring and reporting for PACP



REPORTING FEATURES

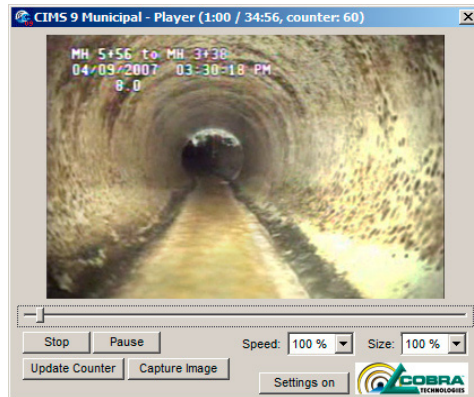
- Customized report designer in html format with reusable templates
- Interactive reports with clickable thumbnails of video and jpegs
- Report customization for footer and logo placement enables client branding
- Report package for quick printing
- All reports savable in electronic format
- Freely distributable report viewer
- Plan View and Cross Section reports configurable to display only connections
- Score Project Module- overall individual reporting module for Structural, Operation and Maintenance defects. Pipe Rating report details individual inspection with Segment Grade Score, Peak Score, Mean Score, Pipe Rating Index, and Quick Rating. List of CCTV inspections provides complete listing of entire project, with Overall Segment Grade, Overall Pipe Ratings Index, and Overall Pipe Quick Rating for each segment within project.
- Structural Defects report provides complete listing for each inspection within project with Segment Grade Score, Peak Score, Mean Peak Score, and Pipe Rating Index for all structural defects.
- Operation and Maintenance report provides complete listing for each inspection within project with Segment Grade Score, Peak Score, Mean Peak Score, and Pipe Rating Index for O&M defects.
- Selected Ratings allow user to filter and display records with only Structural or Operation and Maintenance defects that have a selected value of 1-5.
- Quick Rating displays all inspections within project with Structural and O&M Quick Rating.

ADDITIONAL FEATURES

- Ability to host up to five pictures per observation
- Additional snapshot generation in office
- Project Browser to view and navigate multiple projects from one window
- Up front validation of alternate-source PACP files
- Easy edit mode for all records, rather than entering edit for each record
- Ability to host shorter individual videos for each observation or one single video for entire inspection



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