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VideoCAD ~ a NEW 3D tool for EASY system designs

[11 Sep 2005] [VideoCAD, info@cctvcad.com]

Helping you to design complex CCTV systems with an easy to use CCTV CAD Software package

CCTVCAD Software

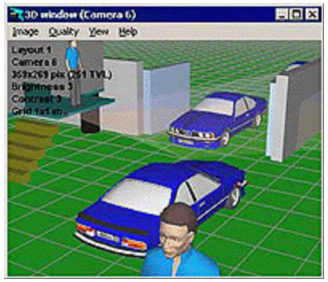
VideoCAD's user-friendly interface even allows beginners to use complex calculations that aren't even being used by skilled CCTV engineers!

Click images for **VideoCAD** website

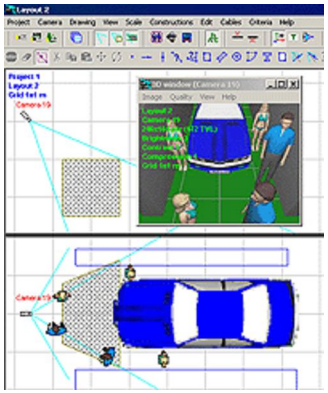
VideoCAD practically boosts the quality of a CCTV system, developing it to a new level.

With VideoCAD you can...

- Choose the most suitable lenses, heights and locations for camera installation to provide the required parameters of view areas, detect and identify a person, read license plates and obtain an object image of required size on a display using the known actual sizes and location of an object.



- Construct three dimensional models of real scenes with the possibility of loading prepared 3D models (a person, a car, etc., this library can be enlarged).
- Get a model of a real picture from each video camera which can be printed and saved.
- Model quality parameters of a video image (resolution, compression, coloration, smoothing, contrast, brightness).
- Choose visually a relative location of cameras using the graphics window with CAD interface.



- Calculate the horizontal projection sizes of viewing, person detecting, identifying and license plate reading.
- Measure the view area distortions, arising from natural obstacles.
- Calculate the depth of field of each camera in a project.
- Calculate the image size on a display of any object in camera view area in the percentage of display size, pixels, TV lines and millimetres/inches.
- Obtain a drawing containing two projections of object layout with the camera images, calculated view areas and cables, and with coordinate grid and titles to be pasted into graphical path of the project as well.

- Locate cameras and cables on the prepared layouts in bmp, jpg, emf, wmf, dwg, and dxf formats (to display dwg and dxf files the CAD Import module by **CAD Soft Tools** was used).
- Print out the obtained drawing on one or several pages. Possibility to use prepared frames with standard overlay Title-Block and logo.
- Export the obtained drawing into any of the following formats: bmp, emf, wmf, dxf (R14), and dxf (R2000).
- Obtain a text file with full description of all the cameras in project, view areas and cables to be pasted into a project explanatory note or used as an instruction on installation.
- Study the influence of the criteria of person detection, identification and license plate reading on the sizes and location of the correspondent areas by changing the criteria according to the video image quality obtained.
- Study the principles of object representation in different view area parts using test object and graphics window.
- Calculate the length and electric parameters of cables.
- Win tenders due to a reduction of cameras in projects and increase in their efficiency.
- Reduce the time expended and boost the design quality.
- Cut down the amount of controversial situations with customers and accelerate their solution.

VideoCAD allows to...

Calculate a view area horizontal projection according to the lens focal length, image sensor format, camera installation height, the required minimal and maximal heights and the maximal range of surveillance.

Calculate the horizontal projections of the person detection, identification and license plate reading areas according to the lens focal length, image sensor format, camera installation height, the required maximal height and range of surveillance and the additionally assigned criteria, depending on quality level of video image.

Determine a full or partial object hitting in the view area and calculate an object size on a display in percentage of a display size, pixels, TV lines and millimetres (or inches for Imperial format) at the known sizes of a display using the actual object sizes, height above the ground and camera location distance.

Model 3D scenes and images from video cameras taking into consideration the quality parameters of each video camera.

Calculate a camera angle according to the required maximal viewing range and height, lens and camera matrix parameters as well. Thus, there's no need for a designer to compute it beforehand.

Display the view area actual image enabling to measure any parameters at any point using the graphics window.

Save the actual view area image in graphical formats.

Create, save and load projects containing up to 100 cameras and up to 10 layouts.

Export projects into text files.

Keep the database of the person detection, identification and license plate reading-out criteria, depending on quality levels of video image.

Calculate automatically the length and electrical parameters of cable.

Since the version VideoCAD 2.0 the CAD interface is used in the graphics window.

Since the version VideoCAD 3.0 both Metric and Imperial measurement systems can be employed.

All the calculations are real-time allowing you to view the influence of each parameter specified upon the final result. VideoCAD does not use any simplified formulas and techniques, in non-typical situations giving out considerable errors.

VideoCAD can be used for quick, but exact calculations of the view area projections to draw an object on a plan when performing a graphical part of project. It can be also used to perform a scrupulous view area analysis to choose the most suitable camera location and lens parameters.

VideoCAD can also be effective at CCTV designer training