



ArCADia PLUS

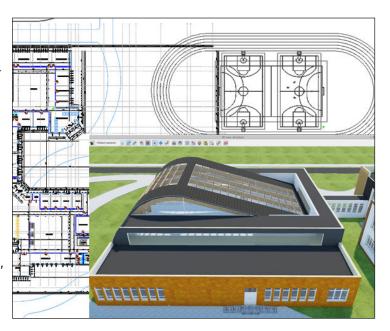
Increase your productivity. Integrate your design workflow into an integral BIM project.

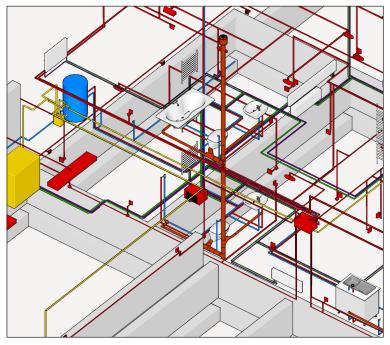
Functionality which allows you to do projects according to BIM technology.

The ArCADia BIM PLUS software has all the features of the ArCADia BIM LT and ArCADia BIM software and, in addition, is enhanced with the following functions:

- The option to create and fully edit ACIS solids. ACIS files are based on the block modelling format developed by Spatial Technology Inc.
- It allows for precise work on full solids, penetration, sums, differences, etc.
- · File import and export in the SAT format.

ArCADia is a program supporting 2D and 3D design. Due to its operational philosophy and the same data format, namely DWG, working with it is analogous to working in other CAD programs available on the market, such as ZwCAD, GStarCAD, BricsCAD or AutoCAD.





ArCADia BIM PLUS software FEATURES:

- Layered drawing with the ability to use groups, blocks, external references and raster backdrops.
- Precise drawing: Cartesian and polar coordinates, characteristic points and tracking.
- Work on a real-world model and the print at any scale from a specified sheet of paper.
- Support BIM technology, object-oriented architectural design.
- Ready-made architectural elements: multilayer walls, stairs, bases, columns, chimneys, windows and doors.
- · Comparing and merging documents.
- Automatic floor entry, additional support for Teriva floor design.
- · Generating statements.
- Ability to create and fully edit ACIS solids.
- · Supporting the IFC format.

Included FEATURES:

- BIM FEATURES
- ADVANCED DRAWING TOOLS



BASIC TOOLS | ARCHITECTURE | CONSTRUCTION | WATER INSTALLATIONS | SEWAGE INSTALLATIONS | GAS INSTALLATIONS | HEATING INSTALLATIONS | ELECTRICAL INSTALLATIONS | COMMMUNICATION

BIM FEATURES - BASIC TOOLS



Project Manager tree

Managing views and the displayed information through the clear tree of the Project Manager.



Walls, windows, doors

Inserting elements such as wall, pipe, etc. using the smart tracking function.



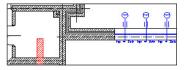
Visualization

Showing elements drawn in the view in a classic or the new 3D view rendered in real time (visualization using a 3D game engine).



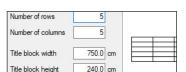
Smart TOP 10

A smart list of the most often used commands that are automatically memorized when working on a project, creating a personalized tool palette.



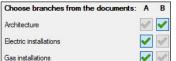
Comparing

The possibility to compare two versions of a project created as an ArCADia system model in the scope of new and modified system elements.



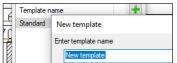
Drawing tables

Creating and inserting drawing tables with the option of saving them to the program library.



Merging

The possibility to merge the building model from an architectural design with the installation design models to create one complete model of a building project.



Custom setting

Saving custom settings for elements (pens, fonts, default element sizes, etc.) in the project template.



Collision

Collisions list of all or individual ArCADia system elements on a view, 3D view and a clear list.



Library

Built-in library that allows for detailing with 2D symbols and 3D objects needed in the drawing.



Elements

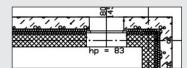
Built-in library of all elements types, with the possibility of expansion.



Dimensioning

Possibility of entering linear and angular dimensioning.

BIM FEATURES - ARCHITECTURE



Choice of defined or drawing any multilayer wall. Built-in catalogue of construction materials.



Inserting of window and door woodwork in a parametric way. Inserting woodwork.



Automatic creation of rooms from the closed outlines of walls and virtual walls, assigning names, functions, temperature and lighting demand.



Defining one- and multi-flight stairs and winder stairs in any view.



Inserting an automatic roof on the closed external walls contour. Inserting of roof windows and dormer windows.



Creating a level with the possibility of copying selected elements.



Inserting automatic ceilings on the closed external walls contour.

>> MORE FUNCTIONS



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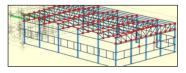
BIM FEATURES - CONSTRUCTION



Constructing the structural systems of Teriva ribbed-beam roofs, containing all the basic elements of the system: ceiling beams, reinforcing ribs, hidden ribs, exchanges, supporting mesh and additionally all necessary material lists including the elements needed to make the ceiling, completed with reinforcing steel and monolithic concrete.



Inserting the binding joist with the insertion of longitudinal reinforcement and stirrups.



Transferring the location and the material as well as the bar cross-section to the construction view. Passing the remaining elements of the architectural model in the form of a rendered or translucent 3D view, and in the case of modular axes, bar elements and surface elements also in the form of their active underlay.



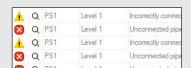
Automatic 3D construction view created on the basis of a three-dimensional architectural model of a building.

>> MORE FUNCTIONS

BIM FEATURES - WATER SUPPLY INSTALLATIONS



Drawings of the internal water supply system | connection point | water meter set | pipelines.



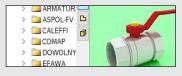
Checking the installation for connections correctness.



Automatic generation of connection fittings, creation of point numbering and installation description. Creating own templates.



Generating ready-made materials lists, devices and connection fittings included in the project.



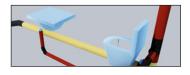
Inserting fittings and devices from the manufacturers' library. Inserting devices with individually set shapes and dimensions defined by the user (eg DHW heaters). Inserting into the program library typical element systems.



Applying risers and distribution pipes from a library. It is possible to simultaneously run several parallel conduits with different functions and connect them intelligently. Drawing simplifications that allow you to change the level of many elements of the installation at the same time.

>> MORE FUNCTIONS

BIM FEATURES - SEWAGE INSTALLATIONS



3D installation preview, which facilitates the correcting of irregularities in the pipeline route not shown on the view.

A	Q	Installati	Location Level	Description Unconnected pipeline
A	Q		Level	Unconnected pipeline
\mathbf{A}	Q		Level	Items unconnected to
A	Q		Level	Items unconnected to

Generating ready-made materials lists, devices and connection fittings included in the project.



Generating ready-made materials lists, devices and connection fittings included in the project.



Checking the installation for connections correctness.



Entering the pipeline route of the sewage system with a given slope on the view.



Pipelines with automatic distinction between outflow channels, risers and connecting pipes for accessories.

>> MORE FUNCTIONS

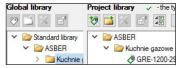


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BIM FEATURES - GAS INSTALLATIONS



Drawings of the internal gas installation.



Possibility to easily and quickly enter additional databases to the main library.



Automatic generation of a set of connection fittings.

		Installati	Location	Description
×	Q	GB1	Ground floor	Unconnected pipe
A	Q	GB1	Ground floor	A appliance or val
\mathbf{A}	Q		Ground floor	Items unconnected
A	Q		Ground floor	The element is not

Checking the installation for connection correctness.



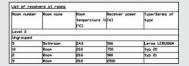
Ready-made lists of materials and lists of elements.



Fittings and devices from the manufacturers' library.

>> MORE FUNCTIONS

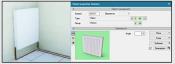
BIM FEATURES - HEATING INSTALLATIONS



Ready-made materials lists, devices and connection fittings. Lists of receivers in rooms.



Inserting the fastening with the possibility of defining parameters characteristic for the fastening used.



Heat receivers, i.e. panel, ribbed, bathroom and channel heaters, heating pipes, air heaters and fancoil units.



Checking the installation for connection correctness.



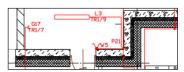
Fittings and devices from the manufacturer's library.



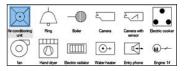
Automatic creation of point numbering and installation descriptions. Creating own templates.

>> MORE FUNCTIONS

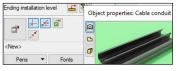
BIM FEATURES - ELECTRICAL INSTALLATIONS



Drawing of internal electrical installations with distribution boards, sockets, connectors, boxes, lighting fixtures.



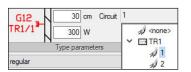
Possibility to modify symbols of entered objects and assign receivers to a particular distribution board.



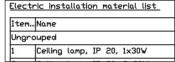
Designation of cable routes.



An extensive library of manufacturers catalogues of electrical installation elements.



Possibility to assign receivers to a particular distribution board (addressing).



Generating a list of materials used in the project.

>> MORE FUNCTIONS



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BIM FEATURES - COMMUNICATION



AutoCAD format from 2.5 to 2018 (DWG, DXF).



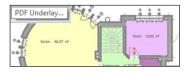
IFC file conversion into ArCADia's basic objects (walls, windows, doors, ceilings, roofs).



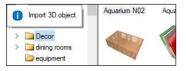
Importing/editing raster images files: JPG, TIF, BMP, PNG.



Export of material lists of elements included in the project to RTF, CSV and to the Ceninwest program.)



Import PDF files analogously to raster underlays or with conversion to vector elements. Export to PDF file.



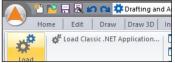
Possibility to enlarge the library of 2D / 3D objects with the formats: XOBJECT, ACO, O2C, OBJ, XOBJ3D and

DRAWING TOOLS An extended CAD drawing engine

ADVANCED DRAWING TOOLS



The program window is divided into tabs in which the drawings are successively displayed.



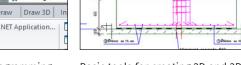
Implemented Lisp programming language interpreter. Possibility to load SDS and IRX overlays.

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STANDARD



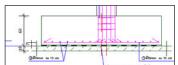
A-Anno-Scrn

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Working on lavers.

Basic tools for creating 2D and 3D drawings.



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Project management explorer.

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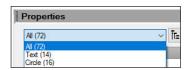
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Home Edit Draw Draw 3D Standard Dimension Styles Manager...

Dimensioning assigned to the element: linear and angular, the ability to define your own styles.



Docked property panel.



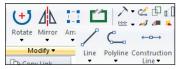
Ability to open and fully edit ACIS solids (format developed by Spatial Technology Inc.). Import and export of ACIS solids in SAT format. Only in ArCADia PLUS.

Starting point for distance: End point: Distance = 259.7661, Angle in XY P Delta X = 259.7661, Delta Y = 0.00

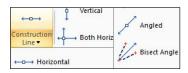
Automatic field and distance measurement, setting coordinates.



Displaying tool palettes. Dedicated Express tools toolbar.



Possibility to fully modify and edit the properties of all drawn elements.



New options for construction lines.

Entering and defining symbol libraries, blocks, simple and complex texts (SHX and TrueType fonts). Additional multiline text editor. New functions of the word editor: columns, scaling, entering text along the arc and borders, text fitting, rotation, auto numbering, etc.

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DRAWING TOOLS An extended CAD drawing engine



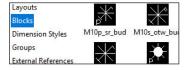
ADVANCED DRAWING TOOLS



A wide range of hatch patterns. New hatch definition and gradient fill window.



A multiline drawing option.



Enhanced block, reference and dimension support capabilities.



Options: Select similar (with adding to the selection and the settings window), Multiadogy, Multiline editor, Dashed line.



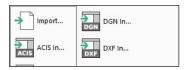
Possibility to add point cloud in RCP / RCS format.



New types of 3D objects (primitives) - Facet Modeler (ODA surface modeler), along with basic editing functions.



Possibility of photorealistic visualization and rendering. Drawing in hidden line mode and shading in real time.



Possibility to open ACIS solids (without option to create and fully editing). DWF, DGN and DAE formats support. Export of STL files.



Auxiliary grid, orthogonal drawing functions, polar tracking.



Extended recognition of snap points (ESNAP), e.g. for lines - center, end points and intersections of lines.



Modification of the top menu, ribbons (panels and tabs), toolbars, command status bar and keyboard shortcuts.



Precise printing by setting all print parameters. Possibility to create a non-rectangular viewport in the paper space.