

# 2D/3D Digital Modeling Add-on Module



**The 2D/3D digital modeling add-on module combines calculation with the building's digital model in AutoCAD® or Revit®.**

**It consists of two applications – Caneco IMPLANTATION and Caneco BIM.**

Caneco IMPLANTATION is an AutoCAD® plug-in that enables the placement of electrical components in 2D or 3D and the automated routing of cables. Essentially, Caneco IMPLANTATION combines AutoCAD® with the Caneco calculation engine, turning AutoCAD® into a platform for electrical designers and engineers with unique E-CAD capabilities.

Caneco BIM is based on the same principle of linking a powerful electrical network calculation with a digital model and transferring it into the BIM context. Caneco BIM relies on Revit to seamlessly integrate electrical design data into BIM projects.

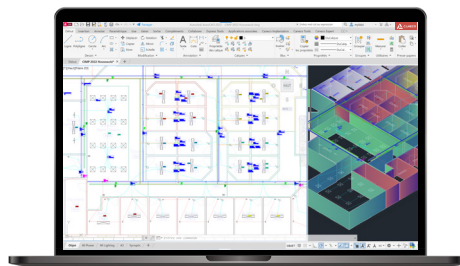
Together, Caneco BIM and Caneco IMPLANTATION streamline the planning of electrical installations and, when combined with Caneco BT, enable full network calculations.

They support automated cable routing, ensure compliance with current standards and regulations, and allow the generation of accurate reports and documentation. The combination of digital modeling and automated electrical calculations offers tremendous potential to improve design efficiency, particularly by accelerating change management.

### Caneco IMPLANTATION

The Professional 2D/3D CAD Solution for Electrical Design and Engineering.

Caneco IMPLANTATION is a next-generation software solution for planning and designing electrical systems in 2D and 3D, as well as for automated cable routing.



#### Intelligent Electrical CAD Planning

- Design high- and low-voltage systems in DWG format with an integrated 2D/3D library
- Draw installation systems and cable trays in 3D – automatic routing sizes the trays according to their load, fill rate, system type, and more
- External planning – integrate projects produced by other offices and easily convert them into Caneco plans
- Integrate distribution boards and electrical circuits into your design. Perform lighting calculations using the DIALux® interface

#### Combined CAD and Calculation

- Use CAD data from Caneco IMPLANTATION as a basis for automatic cable and protection device calculations in Caneco BT
- The software also sizes and verifies cable trays in the layout diagram

#### Advanced Cable Management

- Optimize your project: Caneco IMPLANTATION automatically determines the most cost-effective cable routing, considering rules, paths, and branches
- Export cable routing lists showing each cable's route within the installation

#### Consistent and Automatic Project Documentation

- Easily create one-click reports: bills of materials, cable trays, tests, certifications, quantities, and more
- Automatic generation of high- and low-voltage diagrams for better transparency for all project stakeholders

### Your benefits

#### Proven Platforms

- Compatible with Autodesk AutoCAD® and AutoCAD® MEP
- Also available with integrated OEM engine (DWG/DXF)

#### Optimized Workflows

- Ready-to-use 2D/3D DWG library
- Automated views and reports
- Automatically generated diagrams
- Avoid duplicate data

#### Standards Compliance

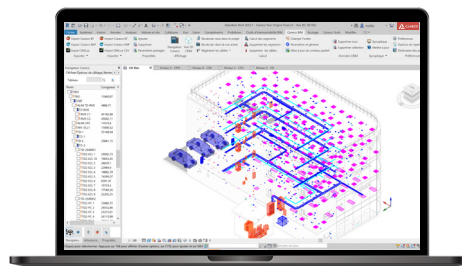
- Cable and protection device calculations compliant with current standards using Caneco BT



### Caneco BIM

Application for Electrical Data Management and Communication in the Global Digital Model.

Caneco BIM is an Autodesk Revit<sup>®</sup> plug-in that integrates and manages relevant electrical installation data within the overall digital model while connecting to Caneco BT for network calculations.



#### Advanced Electrical Modeling

- Caneco BIM performs automatic cable routing. By defining cable routing rules, you obtain exact cable lengths within the overall model
- It provides the comprehensive digital model for automatic calculation in Caneco BT, enabling calculations of cable lengths, cross-sections, breakers, power sources, and more, in compliance with standards. When reimported, these results enrich your digital model
- Caneco BIM automatically generates diagrams for all types of electrical installations

#### Digital Collaboration on a Common Platform

- Transparent data exchange between Autodesk Revit<sup>®</sup> and Caneco applications
- Supports import of lighting elements from DIALux<sup>®</sup>Evo

#### Shared Caneco BIM Properties

- Transfer of calculation results and information from Caneco BT and Caneco IMPLANTATION is made possible by integrating "Caneco BIM shared properties" into Autodesk Revit

### Your benefits

#### Versatility

- The Caneco BIM communication tool allows seamless collaboration with Autodesk Revit<sup>®</sup>

#### Safety and Standards Compliance

- Caneco BIM ensures compliance of the digital electrical model through integration of calculations performed in Caneco BT.

#### Optimized Workflows and Projects

- Project changes automatically update electrical calculations, minimizing manual operations

#### Time Savings

- Add electrical information to your digital model quickly and easily with Caneco BIM

