Overview FUJITSU Manufacturing Industry Solution Building Facilities CAD CADEWA Real English Edition

FUJITSU





Electrical system

Air-conditioning/sanitary system

Function introduction



Equipped with features especially for facilities operations

 Automatically generates routes by obtaining size/level data from the connection points set in devices and instruments
Automatically generates isometric views from 2D drawings

- Allows you to freely select 1Line/2Line views



Basic Specs and Data Compatibility

Item	Content		
OS	Windows 8 English version (32-bit version, 64-bit version) Windows 7 SP1 English version (32-bit version, 64-bit version)		
CPU	Core 2 Duo series equivalent or higher		
Memory	For Windows 8/7: 2.0 GB or more (4.0 GB or more recommended)		
HDD capacity	1.2 GB or more (3.0 GB or more recommended)		
Display resolution	Supports 1280-by-768-pixel or higher, full-color display		
Graphics	Graphics cards supporting OpenGL and DirectX 9.0 * Operations of all graphics cards are not guaranteed.		
Other	Mouse with a scroll wheel, keyboard CD-ROM drive (for installation) One empty USB port (for a hardware protector)		

Contact

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Information in this document is as of January 2014 and is subject to change without notice.

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Equipped with features for wiring pattern selection and automatic hidden line processing; simultaneously draws a wiring plan, allocates wiring, and generates arrows; equipped with many efficiency-improving features Simultaneously converts all electric parts in electrical wiring plans generated by other CADs into CADEWA Real parts Automatically generates detailed views from 2D drawings

Wring drawing with R specifications and automatic hilden line processing

Readable drawing data formats

Readable data formats	
CADEWA Real	*ZDX
AutoCAD DXF	*DXF (up to Auto CAD2012)
AutoCAD	*DWG (up to Auto CAD2012)
IFC	*IFC (2×3)

Available output drawing data formats

Available data formats	
CADEWA Real	*ZDX
AutoCAD DXF	*DXF (up to Auto CAD2009)
AutoCAD	*DWG (up to Auto CAD2009)
IFC	*IFC (2×3)
AutoCAD DXF AutoCAD IFC	*DXF (up to Auto CAD2009) *DWG (up to Auto CAD2009) *IFC (2 × 3)

Overview of Service / Solution FUJITSU Manufacturing Industry Solution

Building Facilities CAD CADEWA Real English Edition

Fujitsu's solution automatically generates 3D CGs from 2D drawings and allows for editing 3D CGs and reflecting the results in 2D format. It can be used to make things visible, reveal hidden structures and achieve consensus.



Version: 1.0

What is CADEWA?

CADEWA Real English Edition enables you to efficiently draw blueprints and plans for electrical, air-conditioning, and sanitary systems by utilizing special built-in features. Fujitsu's building facilities CAD provides tools for making accurate drawings using 3D CGs that are generated in real time.



Customer Benefits

Effects of interactive coordination between 2D drawings and 3D CGs

This product's technology for real-time, interactive coordination between 2D drawings and 3D CGs (patent registered in Japan) allows you to freely operate screens for 2D drawings, cross-sections and 3D CGs, and greatly helps to make things visible, reveal hidden structures and achieve consensus.

Shortening the drawing time by reducing the number of clicks using Fujitsu's building facilities CAD

To make a drawing of a rest room area, for example, CADEWA Real English Edition reduces the number of clicks to approximately one-seventh that of general-purpose CAD (Auto CAD) solutions by simultaneously allocating a large variety of available materials and by utilizing easy-to-use, speedy route creation/editing features. Fujitsu's solution reduces the time and costs required to make drawings and contributes to enhancing your competitiveness.



Using general-purpose CAD (number of clicks)	Using building facilities CAD (number of clicks)	
Allocating devices	Allocating devices	
Drawing center lines	Drawing wastewater pipes	
Allocating joints	Allocating joints	
Drawing straight pipes	Drawing straight pipes9	
Removing parts (hidden lines)42	Total	
Removing decomposed joints25	Number of clicks:	
Total1,876	арргох. 1/7	

It takes only four clicks to create a routing for the piping shown below. A 3D CG is automatically generated. Five clicks are all that is needed to make a drawing of electrical wiring, with the necessary number of cable cores, end covers, and elision symbols.



Why Fujitsu?

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- Having been implemented in 30,000 systems in Japan, building facilities CAD CADEWA Real has developed over a period of 27 years. Japanese organizations that are using CADEWA Real include a wide range of companies and institutions, from major Japanese companies to SMEs-among them subcontractors, general contractors, government organizations, electrical construction companies, air-conditioning and sanitary system construction companies, equipment design offices, and engineering schools.
- The CADEWA series is one of the first solutions from a Japanese CAD vendor to be equipped with 3D real-time coordination features and that leverages its developers' expertise in drawing figures using 3D CG functionality. These features will enable you to contribute to improving the productivity of construction projects in the ASEAN region.
- Fujitsu supports the operation of CADEWA Real in collaboration with its dealer partners that can provide assistance to Japanese companies branching out into the ASEAN region.

se Study							
omer	Company A	Construction revenue	107 billion yen				
npany A's of CADEWA outheast	Company A performs design and construction work at affiliated companies in nine ASEAN nations. The company was using 2D CAD to draw blueprints and construction plans. However, due to difficulties in checking and verifying space information in advance based on 2D CAD drawings, defects often occurred in joints. To prevent such defects by using the 3D CG technical knowledge acquired in Japan to draw blueprints and construction plans overseas, Company A decided to develop an English version of its own CADEWA system used in Japan–with the full cooperation of Fujitsu Systems West that originally created the system. As a result, Company A is able to explain construction designs to clients using 3D CGs generated by CADEWA prior to construction and determine the allocation of equipment, piping routes, and support positions at an early stage in the design . This has contributed to reducing reworking and improving construction quality .						
omer	Company B	Construction revenue	155 billion ven				
npany B's of CADEWA ′ietnam	A Company B uses Building facilities CAD CADEWA to perform construction work at machine factories and other work sites in Vietnam. When there is a need to renovate peripheral facilities at their client's request as a result of changes to factory production lines, Company B takes advantage of the 3D CG features of CADEWA meetings with clients. This greatly reduces the workload of Company B, the contractor, and the client.						
		Verify the bala the production facility line syste	nce between line and the bn the CAD em.	Use CADEWA to build a win-win relationship! Benefit			

showing the design in 3D

Contractor

(Company B)

Client

(Factory C)