

MELSOFT GEMINI 3D SIMULATOR SOFTWARE

Ensure Functionality Before Installation to
Streamline Manufacturing Processes



Virtual Commissioning That Yields Tangible Results

MELSOFT Gemini 3D Simulator Software lets you pre-verify line equipment in digital space to accelerate product time to market. Quickly construct animated 3D models to simulate production operations, analyze scenarios and save rework labor costs by troubleshooting issues on the spot.

Why use the 3D Simulator?



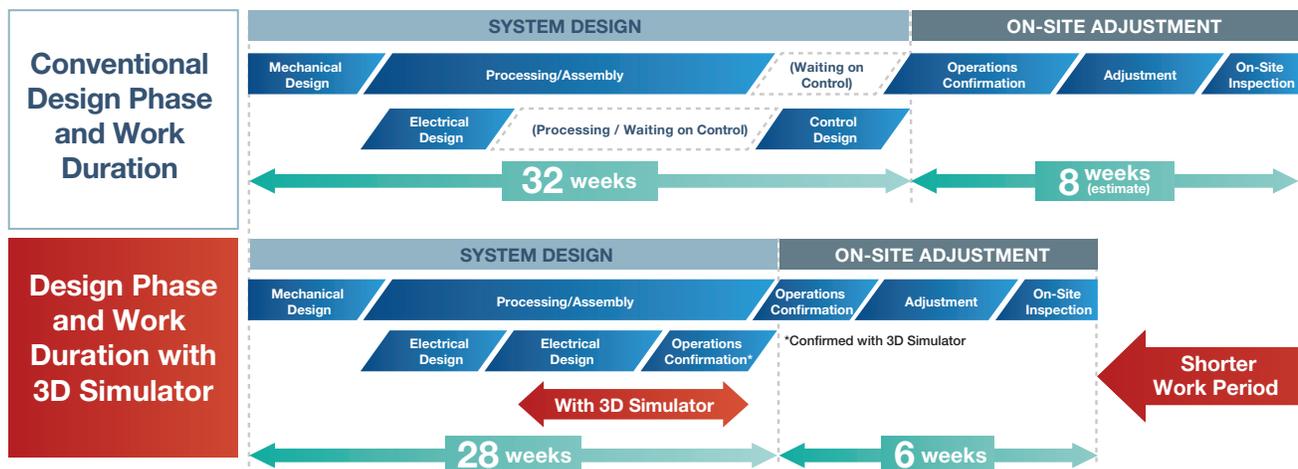
Pre-verification is performed in the digital space of a virtual factory or equipment line. This significantly reduces cost and time during the design phase.

REDUCE PAIN POINTS OF BUILDS AND RETROFITS



TIME IS MONEY!

Get production right the first time with MELSOFT Gemini 3D Simulator Software.



4 Features for Faster and More Accurate Project Execution

1 SIMPLE EQUIPMENT LAYOUT WITH AN ABUNDANT E-CATALOG

Contains approximately 2,500 robot, conveyor and machine tool parts, including Mitsubishi Electric MELFA RH and RV robot series. Simply drag and drop to create your line layout.



2 PRE-VERIFICATION OF MACHINE OPERATION & CONTROL PROGRAM

Link Gemini 3D simulations with various Mitsubishi Electric controllers to confirm control logic without actual machines.



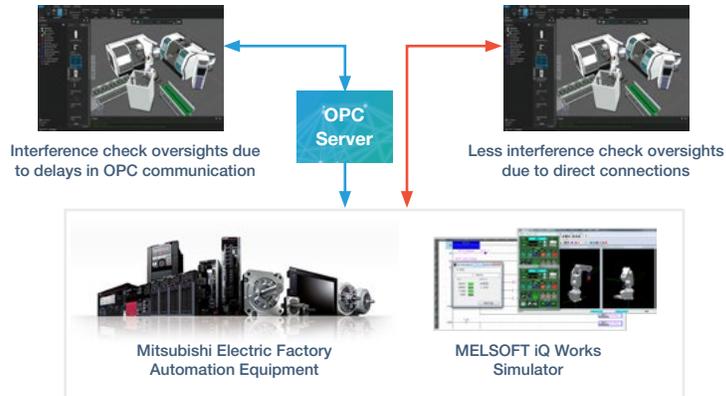
MELSOFT Gemini 3D Simulator Software

MELSOFT iQ Works

- PLC Simulator
- Motion Controller Simulator
- Robot Simulator
- HMI Simulator

3 DIRECT CONTROLLER CONNECTION WITHOUT OPC COMMUNICATION

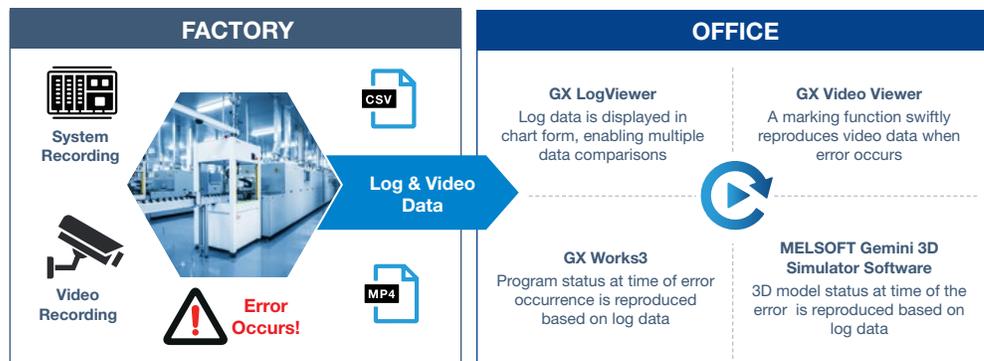
There is no longer a need for OPC servers because 3D Simulator can be directly connected to various simulators and factory automation equipment made by Mitsubishi Electric. This means higher mechanical interference check accuracy compared to OPC connection reducing labor time.



4 ERROR REPRODUCTION WITH SYSTEM RECORDER DISPLAY

A Gemini Exclusive!

Virtually replicate and replay error and machine conditions from logged system data to quickly troubleshoot problems that happen during production.



Abundant Functionality for a Wide Range of Applications

Compatible Software Types

LAYOUT CONFIGURATION

PROFESSIONAL

ESSENTIALS

Drag and drop parts directly from the e-catalog to the settings screen to connect components. Pre-set component parameters such as dimensions, speed and color.

PROCESS MODELING

PROFESSIONAL

ESSENTIALS

With a visual workflow of part operation sequence, it is possible to perform settings where points are linked. Programming necessity can be set to the minimum with work content by line part/product flow or individual location.

CAD IMPORT

PROFESSIONAL

ESSENTIALS

Directly import common CAD file types using software applications such as Autodesk, Dassault and PTC.

FILE GENERATION

PROFESSIONAL

ESSENTIALS

In addition to capture images, video data files can be generated in the maximum 4K HD quality. It is also possible to create animated 3D PDFs. Convert 3D layouts to presentation-worthy 2D drawings in mere seconds.

STATISTICAL ANALYSIS

PROFESSIONAL

ESSENTIALS

Visualize bottlenecks and operating rate changes using line graphs, area charts, bar graphs, and pie charts. Easily export simulation data as PDF or Microsoft Excel file.

COMPONENT MODELING

PROFESSIONAL

The motions of workpieces and equipment parts can be set in the imported 3D CAD files and consistently reproduced in 3D Simulator.

Software Licenses and Maintenance Services

Product	Model	Number of Licenses	Description
MELSOFT Gemini Professional (License + 1 Year Maintenance Contract)	GEMINI-PRO-C1	1	Full version where customers can newly create/set operations of 3D models in imported 3D CAD data.
MELSOFT Gemini Essentials (License + 1 Year Maintenance Contract)	GEMINI-ESS-C1	1	Simple version where customers can use only the 3D models from the built-in library.
MELSOFT Gemini Professional Maintenance (1 year maintenance contract renewal)	GEMINI-PRO-C1-SMA	1	Maintenance Services for Professional Licenses (Software updates, upgrades, and technical support)
MELSOFT Gemini Essentials Maintenance (1 year maintenance contract renewal)	GEMINI-ESS-C1-SMA	1	Maintenance Services for Essentials Licenses (Software updates, upgrades, and technical support)

Recommended Operating Environment

CPU	Intel i7-8xxx processor or greater	Graphics Card	Nvidia GPU with minimum 4GB dedicated memory (GeForce GTX 1080 or greater)
Memory	8 GB	Graphics Display	1920x1080 (Full HD) or more
Hard Disk	3 GB available space	Mouse	3 buttons
Drive	-	Operating System	64-bit Windows 10 (not dependent on Windows language)

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