

Device Visual Programming Tool

ExiaStudio

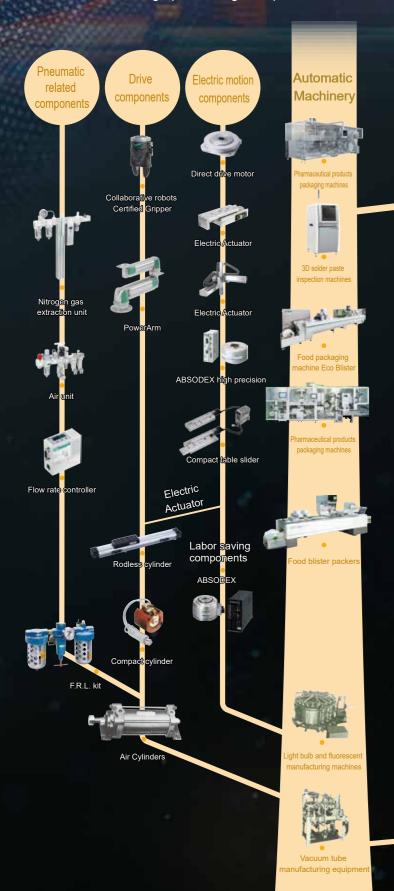
Visual programming tool for device control



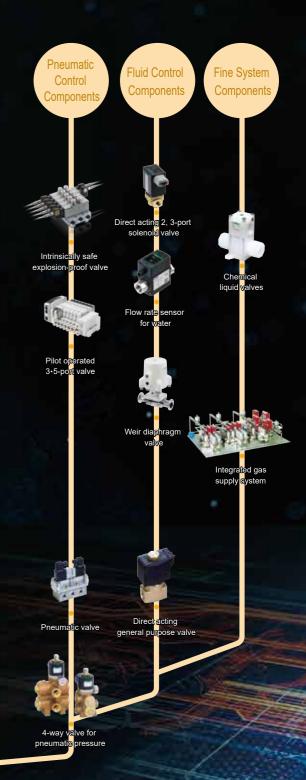
Proposing software solutions that can be done only by components and

CKD Softwares was developed from the standpoint of the component users by making full use of the know-how cultivated over many years as a components and equipment manufacturer. We propose the best solutions for image processing, components control, and data gathering, which are tailored to the worksite.

equipment manufacturers who are well versed in the field





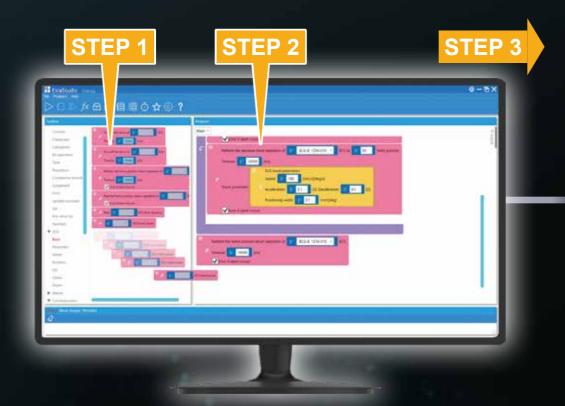


ExiaStudio

No professional knowledge required! Easy information collection + automation with visual programming

Easy Steps

Anyone can build a components control system by simply dragging and dropping various blocks.



Intuitive operation Easy programming with

Visual programming adopted

Programs can be easily created by mouse operation, and components can be freely controlled without specialized knowledge of the ladder language.

Drag & Drop Blocks STEP 1

STEP 2 Directly enter operation parameter settings.

STEP 3 Start components control!

Function list

Basic functions

- Conditional branch
 Key Value List
- Repeat
- Functions

etc.

- Variables / Constants
 Timer

Arithmetic function

- Arithmetic Operations
- Rounding

etc.

• n-decimal

conversion

- Bit operation Character combination
- Character counting ASCII conversion

etc.

- Character extraction
- Character replacement







Character operation

Electric control

· ROBODEX Pulse

- Direct acting actuator
- Rotary actuator
- Status monitoring

Rotary



App integration

- Facilea
- Excel®Write /Read
- Database Apps
- Command
- *Excel is a registered trademark or trademark of Microsoft Corporation in the United States and other countries





Various I/O controls

etc.

- Digital I/O
- Analog I/O
- IO-Link integration



ECG Series



RT Series

External communication

- Serial communication
- TCP communication
- MC Protocol
- •HTTP







File folder creation

- File Copy/Move
- File output (csv / txt / xml / json)



Script execution

- Compile
- C# script execution





Examples of information collection

*You can see the video of each processing by holding your smartphone over the QR code.



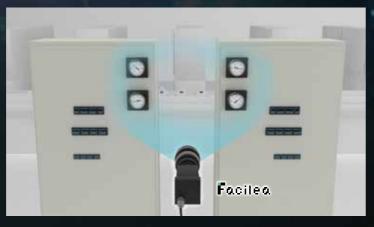
Digitization of analog instruments

Problem

It is difficult to go to the site for periodic inspections of analog instruments...

Improvement result

- Analog instruments can be digitized, eliminating the need for visual inspection
- Quick response to abnormalities
- Minimizing work-hours at installation sites



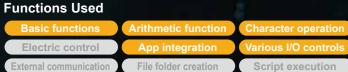
Functions Used

Basic functions	Arithmetic function	Character operation
Electric control	App integration	Various I/O controls
External communication	File folder creation	Script execution



CO₂ discharge rate measurement

- Various sensors are retrofitted, making it ideal for collecting data for carbon neutrality
- Easy graphing and tabulation by automatic entry in spreadsheets





Remote I/O

RT Series

When used in conjunction with ExiaStudio, various sensor control is possible

Catalog No.CC-1557A



Examples of automation

*You can see the video of each processing by holding your smartphone over the QR code.

Automation of chemical liquid measurement work

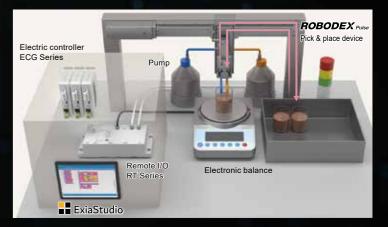
Problem

Manual weighing can take time and lead to recipe errors



Improvement result

- Automation has eliminated the need for a permanent worker at the inspection equipment.
- Data collection is also automated through data linkage with electronic balances
- Reduced programming hours



Functions Used

Basic functions	Arithmetic function	Character operation	
Electric control	App integration	Various I/O controls	
External communication	File folder creation	Script execution	

Leak inspection of packaging bags



- Flexible control of electric actuator with a single block
- Serial communication function enables easy data linkage with strain gauges
- All-in-one system from inspection to device control using only a PC

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Basic functions	Arithmetic function	Character operation
Electric control	App integration	Various I/O controls
External communication	File folder creation	Script execution



Electric controller

ECG-A/ECG-B Series ROBODEX Pulse

Can be used as a digital I/O unit when used with ExiaStudio

Catalog No.CC-1591A



I/O unit specifications

	Item		Description	
		No. of inputs	13 points	
		Input	Photo coupler insulation input (no polarity)	
	Input	Input voltage	24 VDC ±10%	
	section	Input current	4 mA/point	
		Input voltage when ON	19 V or higher	
		Input current when OFF	0.2 mA or less	
		No. of output points	13 points	
		Output	Photo coupler insulation open collector output (No polarity)	
	Output	Load voltage	24 VDC ±10%	
	section	Load current	20 mA or less/point	
		Internal voltage drop when ON	3 V or less	
		Leakage current when OFF	0.1 mA or less	
		Output short-circuit protection	Yes	

Directions after purchase

Sending the product

CKD will send you the "User's Manual" and "USB Dongle".



License Registration

Please register from ExiaStudio Homepage https://www.ckd.co.jp/software/exiastudio/en/





Software Download and Installation

Start using

2 software options

Standard



- ●To edit programs on site
- To keep the capital investment budget low
- ●Requires 1 dongle key per PC

Professional model



- ●To make repeat production of components with the same configuration
- To reduce the cost per device
- Dongle key required only for development PCs
- ●ExiaRuntime allows output of executable files

Specifications

		Description			
Part name		ExiaStudio (Exia Studio)		ExiaStudio Pro	
Model No.		AESM-EXIA-1 AESM-EXIA-2		AESM-EXIAPRO-1	AESM-EXIAPRO-2
Туре		ExiaStudio body	Renewal license	ExiaStudio Pro body	ExiaStudio Pro update license
	OS	Windows10, 11 64bit			
Operating	CPU	Intel Celeron CPU N3050 1.60GHz or more			
Environment	Required Memory	4 GB or more			
	Required Disk Space	10 GB or more free space			

Caution

- Check the USB power supply of the PC and the power consumption of the components before use. Failure to do so may cause insufficient power supply and malfunction.
- •Using a USB hub may cause a delay in communication and prevent the expected operation.
- ●AESM-EXIA-1 can only run programs with a USB dongle plugged in.
- The warranty period for this product is one (1) year from the initial delivery to the customer's designated site. For details of the warranty, refer to the CKD website (https://www.ckd.co.jp/kiki/en/).
- AESM-EXIA-1 and AESM-EXIAPRO-1 are subject to US Export Administration Regulations (EAR99).
- ●When using the electric controller as an I/O terminal, since it is not under ExiaStudio control immediately after the power is turned ON, signals compliant with the controller specifications are output. Take measures as necessary. For details, refer to the CKD website (https://www.ckd.co.jp/kiki/en/).

The goods and/or their replicas, the technology and/or software found in this catalog are subject to complementary export regulations by Foreign Exchange and Foreign Trade Law of Japan. The law requires a license from Ministry of Economy, Trade and Industry to export them.

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