

## iQ Platform-compatible PAC System Recorder

**e-Factory**

Total maintenance solution

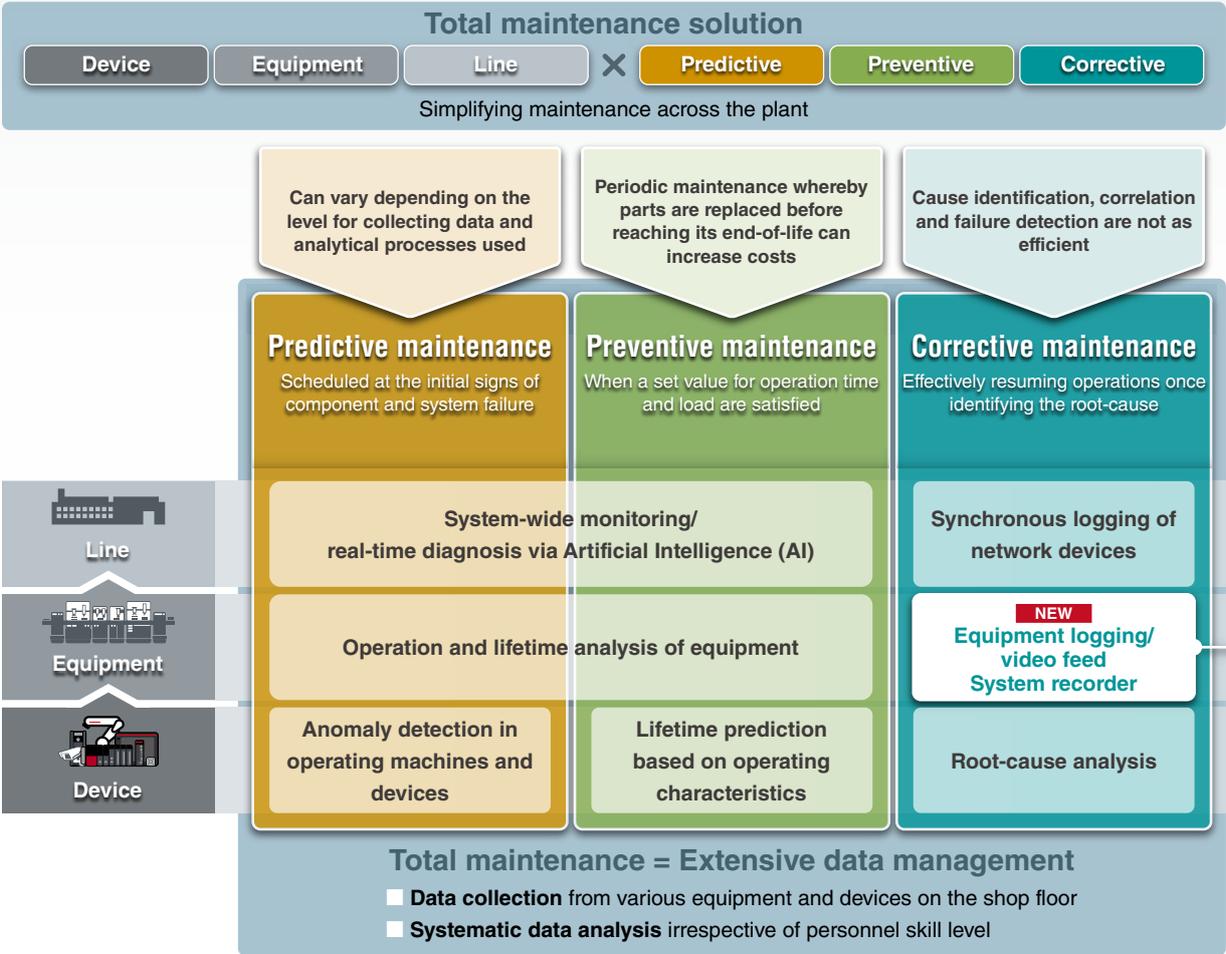


Bringing maintenance data  
management to the next level

**MELSEC iQ-R**  
series

# Mitsubishi Electric's solution for improving productivity through easier data management

Ensuring continuous production is a key factor in manufacturing from **device**, to **equipment** and across **multiple lines**. This can be achieved in various ways by recording and sampling production and machine operating data and utilizing this data within various stages of maintenance; from ① **predictive maintenance** to detect signs of error, periodical ② **preventive maintenance**, and ③ **corrective maintenance** for prompt troubleshooting at the time of failure. Having an enhanced maintenance solution is Mitsubishi Electric's goal of empowering the customer to reduce downtime and to ensure a manufacturing plants efficiency is running at optimum resulting in reduced operating and maintenance cost.



## System recorder

### System-wide recording

#### ■ Data recording and video feed

- Extensive data logging of device and labels ..... ⑧ ⑩
- Event history recording ..... ⑧ ⑩
- Network camera image recording (program) ..... ⑧ ⑪ ⑫ ⑬
- Network camera image recording (module)\*1 ..... ⑩ ⑫ ⑬
- Automatic saving to file server ..... ⑩ ⑬

#### ● Drives status recording

- Servo system recording ..... ① ⑥ ⑨

#### ● GOT (HMI) operation recording

- Recording of log and alarm data ..... ⑦

\*1. Soon to be released

### Simplified analysis

#### ■ Data analysis with video feed

- Offline monitoring ..... ① ② ④ ⑤ ⑧
- Log marker ..... ① ② ③

#### ■ Comprehensive device relationship mapping

- Data flow analysis ..... ②

# System recorder

The system recorder is a corrective maintenance solution that ensures effective resumption of operations reducing downtime through its extensive system-wide data recording and simplified analysis software features.

## System-wide recording and simplified analysis

### System-wide recording

#### Extensive recording ensures simpler cause analysis

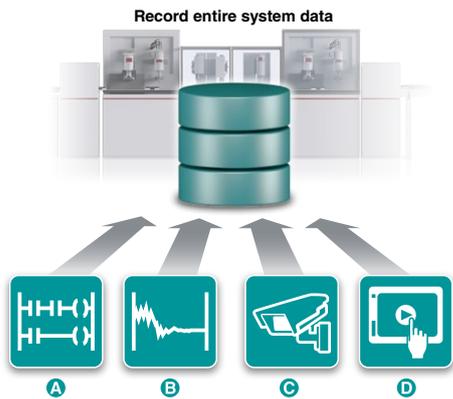
Error cause identification is made simpler by the extensive recording of various equipment and device data together with a real-time video feed reducing the need for multiple retesting due to insufficient data.

#### System-wide

Irregularities between various equipment including control and drive systems together with operations are all linked.

#### Long duration system-wide recording

Recording of errors that can occur outside standard operating shifts.



- A Programmable controller CPU (entire bit/word data)
- B Servo status (command position, actual position, speed, torque)
- C Network camera video feed
- D Operation log of GOT (HMI)

### Simplified analysis

#### Extensive data shown in the same timeline

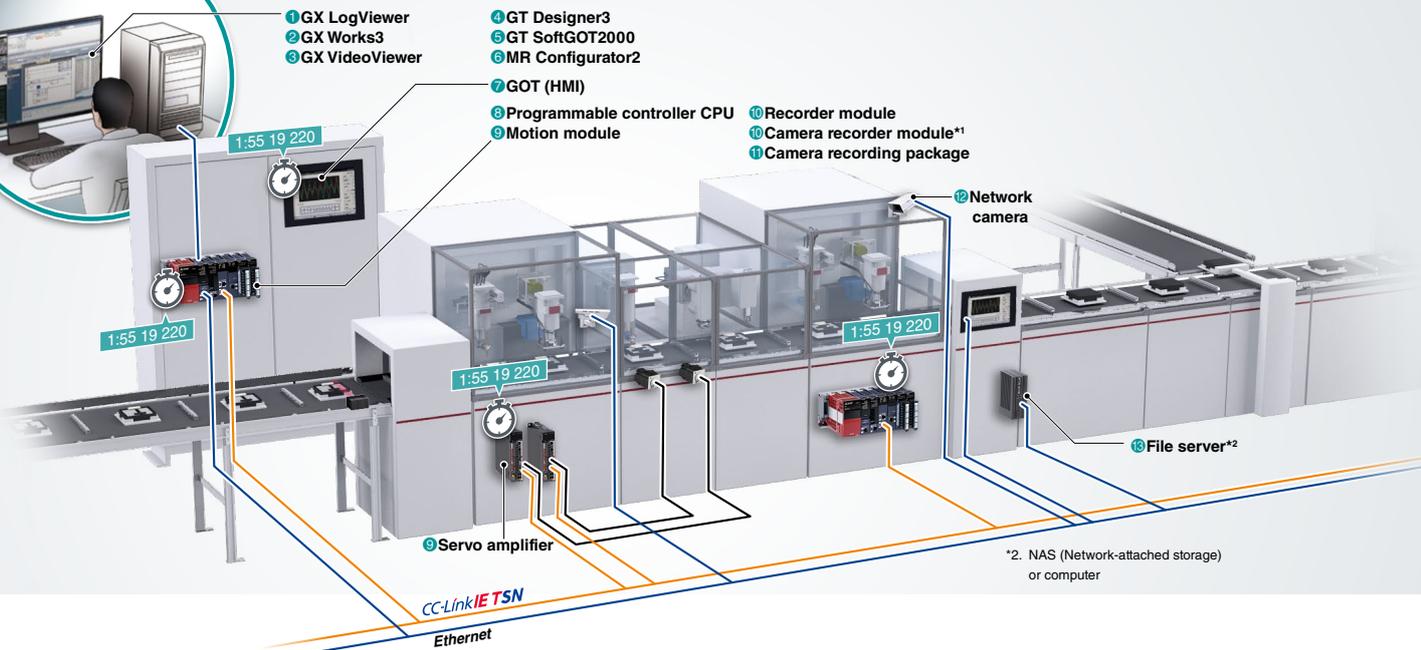
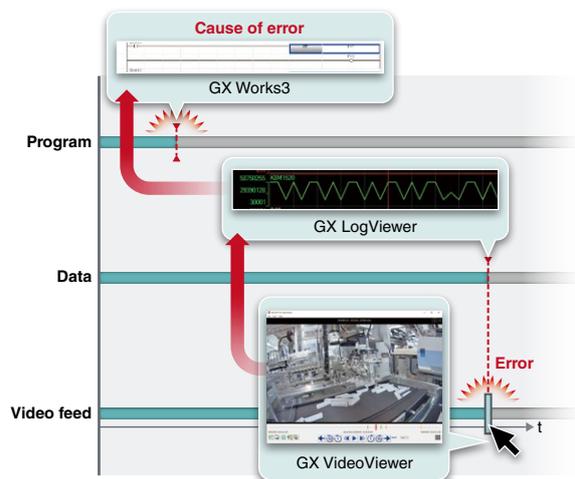
Waveform, data, program and video feeds are shown in sequence ready for analysis.

#### Easier cause identification

Data flow analysis makes understanding the root-cause of failures easier by showing the relationship between failed and normal devices.

#### Structured program ensures easier troubleshooting

Supports structured programs and device labels enabling easier resolution of problems.



\*2. NAS (Network-attached storage) or computer

# System-wide recording



When equipment fails or fall into an error status it can be quite difficult to highlight which components or process had caused the initial failure leading to a detailed fault-cause analysis prior to and after the event. In addition, documenting each component or devices can lead to an immense use of resources with no guarantee that the actual cause of the initial failure will be evident to ascertain especially if the machine is quite complex. In contrast, Mitsubishi Electric's system recorder can record the entire process condition and offer an operations log for control data of multiple equipment and devices, allowing the reproduction (or playback) of the process offline, helping to highlight and show the actual cause of failure. The system recorder is very simple to use, and recording can be initiated by simple settings from the module and associated engineering tools.

## ■ Data recording and video feed

### Complete system-wide recording

The MELSEC iQ-R Series recorder module enables complete collection of all device changes per controller scan time, therefore the error cause can be identified quickly. Logging of all device data related to system modules and network in addition to the programmable controller CPU is possible.

### Easily locate error point with structured program

Supporting structured programming enables the recording of not only devices but also labels. This eliminates concerns about physical device addresses and system configuration, easily identifying the errors point of origin.

### Record status changes from external devices

Device and label operation from external devices can be recorded as historical events. This enables to accurately understand status changes specifically for each device and label.

### Select ideal camera for the application

The network camera is used to record a live feed of the actual behavior and status of the machine. Any problems specific to the manufacturing process can be visualized easily. Various standard network cameras are supported with no proprietary hardware required enabling the choice to select the ideal camera for the application.

### Easier retention and analysis of overall data

Logging data can be stored on the SD memory card of the recorder module and on a file server (such as NAS or computer) automatically based on the system configuration and data size. Saving data in one location enables easier analysis across multiple systems.

## ● Drives status recording

### Extensive recording of positional data from servo

Servo systems tend to operate at a much faster cycle time compared with a programmable controller making it difficult to capture. Collecting data using a time-stamp ensures that detailed positional data from the servo can be recorded.

## ● Operator process recording

### Operation logs and alarms

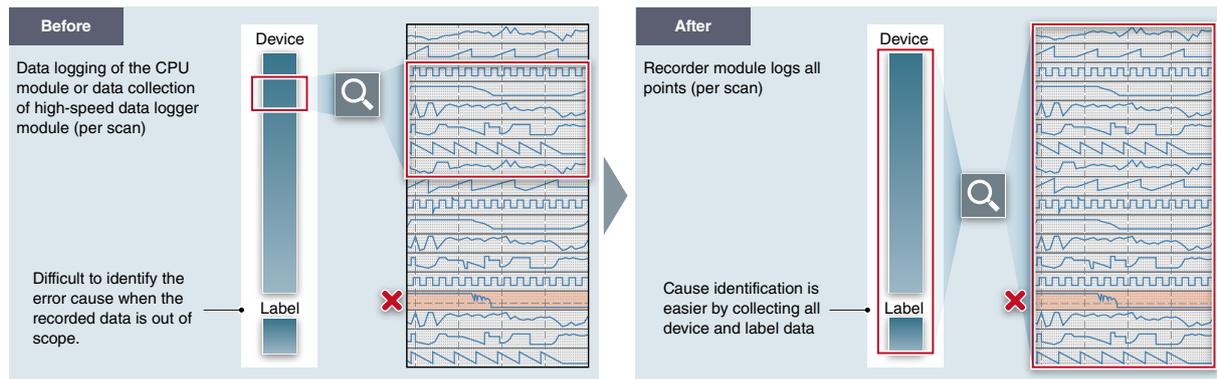
Operation logs can be recorded in the GOT (HMI) and MELIPC MI3000 in sequence. Alarms related to various devices can be checked and archived.

## System-wide recording Control data

### Device logging every (programmable controller) scan

#### ① Logging of all device and label data

The MELSEC iQ-R Series recorder module collects all data per controller scan prior to and after an error event (together with a time-stamp). The cause of the error can be identified quickly since individual settings for recording specific devices and labels are unnecessary. Safety device logging is supported.



#### ② Minimal impact on the scan time

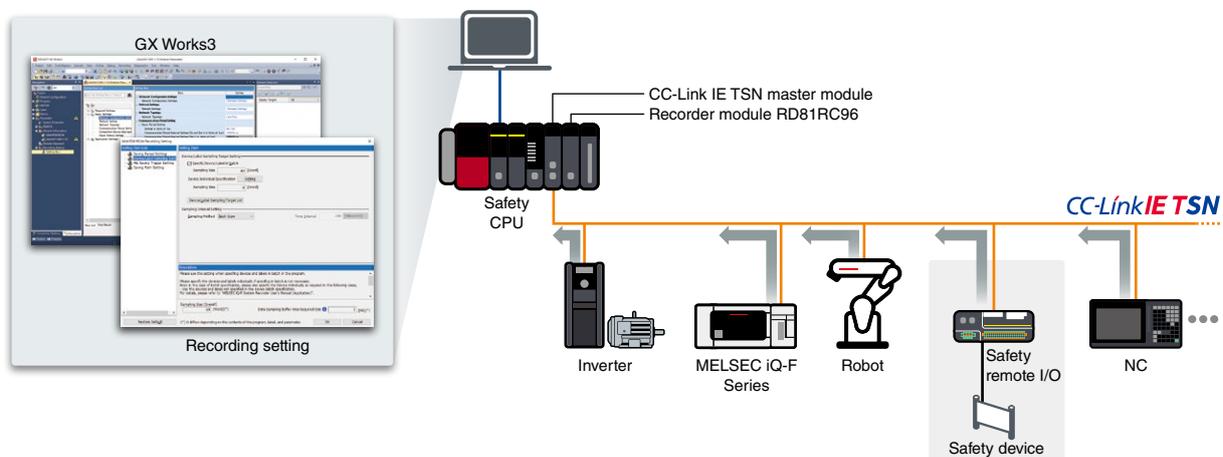
The recorder module is designed for logging of all device and label data before and after a trigger occurs. Influence on the CPU scan time is minimal as the execution load is separated. This can be ideal for ensuring determinism in a control system.

#### ③ Easy setting

Setting of the device trigger and the recording time before and after the event are only required irrespective of the device target recording range.

### CC-Link IE TSN networked device logging

Manufacturing machines are equipped with various components consisting of servos, robots, inverters and remote devices in addition to the programmable controller. To facilitate the error cause identification between these networked devices, data (device data and labels) can be collected per scan for reproduction and playback in sequence. Making it easier to understand and check the situation of these devices throughout the network.



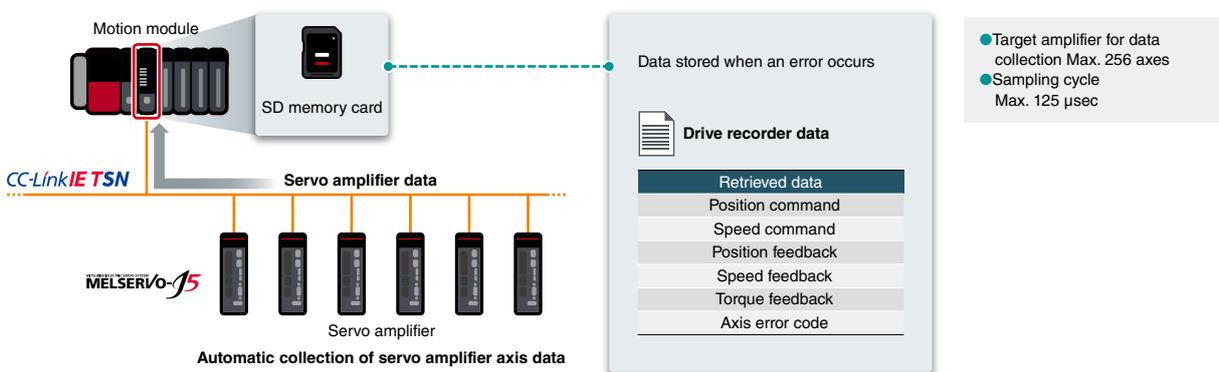
## Collecting servo axis data in real-time

### ① Record all servo movement

Control data from the motion module can be collected even at high operating speeds. The data is collected using a time-stamp ensuring that detailed positional data can be grasped.

### ② Automatic collection without requiring a program

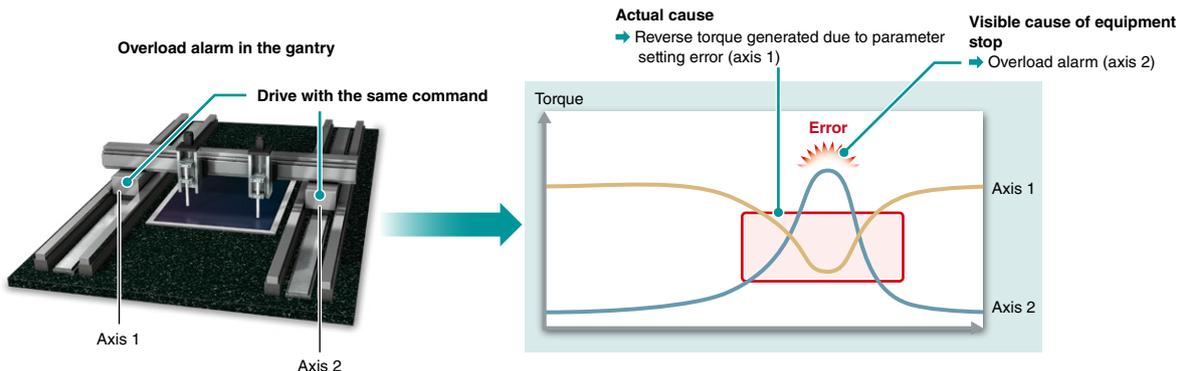
Motion data (speed, torque, and position) are automatically collected as log data between the MELSERVO-J5 Series servo amplifier and MELSEC iQ-R Series motion module without requiring any additional registration of parameters. Time-stamped data is saved in the motion modules SD memory card.



### ③ Troubleshooting utilizing entire system data

Troubleshooting is easier by collecting the entire systems servo axis data instead of just concentrating on one servo.

In the system below, when the equipment stops from an overload alarm in axis 2, an error cause can be found by checking the axis 1 data. It is apparent that the equipment stops due to reverse torque generated because of parameter setting error of axis 1.



## Automatic saving to file server

As a logging data storage, an SD memory card of the recorder module and file server (such as a NAS or computer) can be selected. Extra tasks such as extracting logging data from the SD memory card and sending large-scale data in a separate file for engineers remotely are no longer required.

## System-wide recording Event history

### Event history

Sometimes an error may arise from sudden changes in data value from an external device or due to a mistake with an operator's procedure. Device and label operation from external devices can be recorded as historical events. This enables to accurately understand status changes specifically for each device and label.

No.	Occurrence Date	Event Type	Status	Event Code	Overview	Source	Start I/O No.
0000	2020/04/23 17:47:26.970	Operation	↓	H04031	Recording File Saving Completion	R08RCM6	0080
0007	2020/04/23 17:47:26.219	Operation	↓	H04030	File Saving Trigger Establishment	R08RCM6	0080
0008	2020/04/23 17:47:26.219	Operation	↓	H04040	Write Device in word unit(s) points	R32CPU	3E00
0009	2020/04/23 17:47:26.809	Operation	↓	H04031	Recording File Saving Completion	R08RCM6	0080
0010	2020/04/23 17:47:13.146	Operation	↓	H04030	File Saving Trigger Establishment	R08RCM6	0080
0011	2020/04/23 17:47:13.146	Operation	↓	H04040	Write Device in word unit(s) points	R32CPU	3E00
0012	2020/04/23 17:47:06.442	Operation	↓	H04030	Recording Operation Start	R08RCM6	0080
0013	2020/04/23 17:47:06.161	Operation	↓	H04030	Recording operation status (R08RCM6)	R32CPU	3E00

Recorded items
Operation from engineering tool
Device and label data registration via SLMP*1 Ethernet protocol
Device and label data registration using instructions (from external station or machine)
Device and label registration using "Simple CPU communications" (from external device)

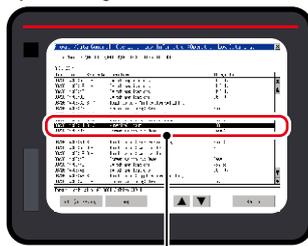
\*1. SLMP: Seamless Message Protocol

### Record operation log and alarm history

#### ① Easier to identify error cause from operation log

Operation logs can be recorded in a SD or USB memory card from the GOT (HMI) in sequence. These logs can then be confirmed in the GOT (HMI) or MELIPC MI3000 on the shop floor. In addition to authentication, recording of specific operator logs can be identified easily.

Operation log list



Check log profile

Focus on log

Detailed log information

Date/Time	:08/28/2014 14:08:11
Function	:NUM_VAL
Numerical Input	:
Screen No	:Base_2
Operation	:
Torque 1 set value	:
Operator	:Chiba (ID:1)
User ID	:-
Action No	:1
Data Type	:BIN16
Device	:6D1000
Change To	:100
Change To(Oper.)	:100
Chng From	:10
Chng From(Disp)	:10

Information showing operation logs

#### ② Recording of system alarm history

System errors that have occurred are logged in the GOT (HMI) situated on the shop floor. Alarms related to each device with detailed logs showing specific network station number are supported. These features are ideal for large-scale systems.

## System-wide recording Camera images

### Utilize readily available network cameras

#### ① Select network camera according to applications

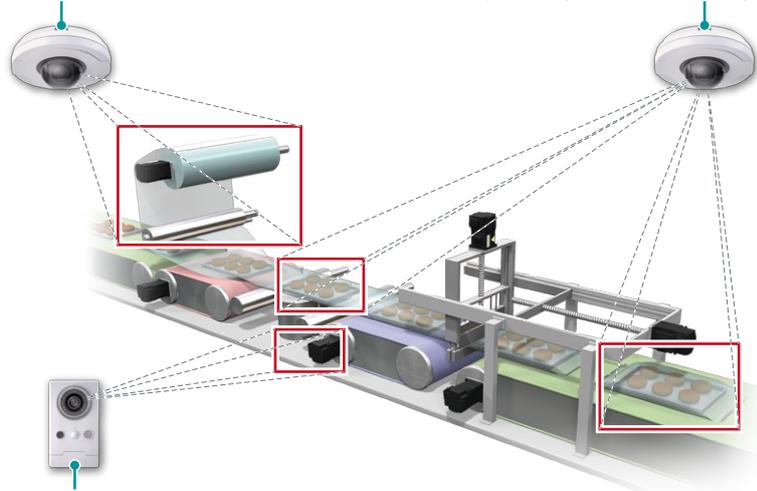
In addition to operation and alarm logs, visual representation of errors in the form of a video feed are useful for showing actual processes in operation enabling quick identification of a specific error or process issue. Network cameras can be installed around equipment and/or processes enabling a real-time video feed close to the application. By supporting readily available network cameras offers a broad choice of functions that maybe specific to an application, such as for process speed and environment (ambient temperature, humidity, and installation space).

Wide angle/fish-eye lens type:

Enables panoramic view of an entire production line

Optical zoom type: Provides detailed and vivid images

PTZ (Pan-Tilt-Zoom) type: Pre-registered positions allowing multiple areas with a single camera.



Modular type: Installable within control enclosures with limited space

Wireless type: Greater installation flexibility as communication cables are not required

Installation environment	Applicable cameras
<ul style="list-style-type: none"> <li>Wide-area coverage capturing entire process area</li> <li>Recording personnel operations</li> </ul>	Wide angle/fish-eye lens type
<ul style="list-style-type: none"> <li>Detailed view</li> <li>Multiple viewing positions</li> </ul>	Optical zoom type PTZ (Pan-Tilt-Zoom) type
<ul style="list-style-type: none"> <li>Limited installation space</li> <li>Difficulty installing communications cabling</li> </ul>	Modular type Wireless type

Recommended network cameras:

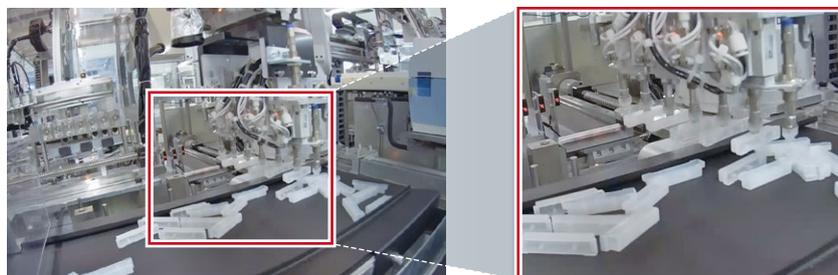
- AXIS COMMUNICATIONS (AXIS) Network camera<sup>\*1</sup>
- ONVIF Profile S compliant network camera<sup>\*2</sup>

\*1. For more information, please contact your local Mitsubishi Electric sales office or representative.

\*2. Soon to be released

#### ② Enlarge images with optical zoom

Optical zooming of camera images enables more detail when images are unclear because of a lower resolution. Networked cameras can be installed at a distance from the process and zoom-in to specific areas of an application to provide higher resolutions when required.



#### ③ Long duration recording

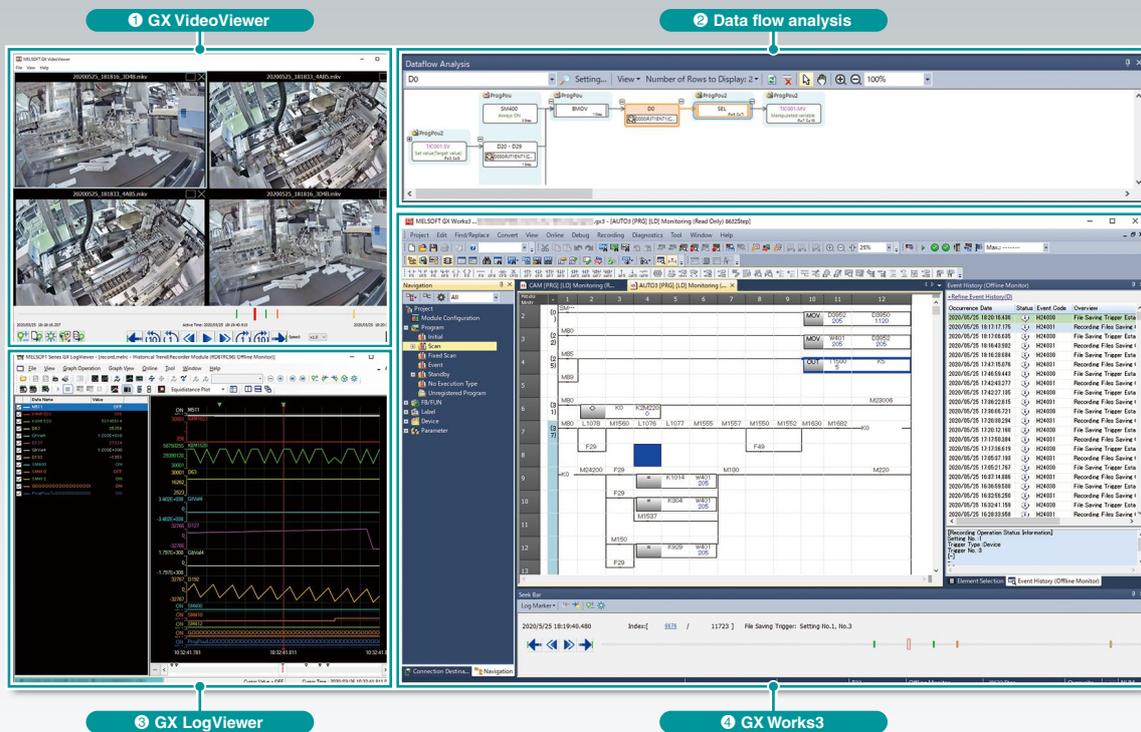
Recording video feeds can require large storage capacity considering the frequency and amount of data being recorded.

To overcome this the system recorder stores video feeds using the H.264 codec which compresses the data making space utilization more efficient. Together with GX VideoViewer feeds can be confirmed immediately.

#### ④ Use external storage such as a NAS or computer

A file server (such as a NAS or computer) can be used as storage for camera images on the shop floor.

# Simplified analysis



Finding the root-cause for errors in manufacturing can be a laborious process involving many areas of the support chain. One of the difficult aspects of fault finding is to find out why a specific process or application is behaving irregularly and to pinpoint the cause of these faults. The system recorder has a range of tools that simplify analysis and enables the support engineer to understand the process clearly. Data (such as control data and device values in waveform) can be recorded in real-time and for long durations. In addition to this, camera video feeds are recorded. The relationship between data can be visually shown in a state representational diagram (data flow analysis) allowing the support engineer to playback or return to a specific timeline and confirm the behavior of devices. All software screens are synchronized providing a clear timeline of events. To further expand the scope of support, recording files can be accessed locally onsite or remotely and distributed to various key personnel within the support chain.

## 1 GX VideoViewer Visual confirmation of irregular process behavior

Recorded video feeds taken from networked cameras can be confirmed on either readily available video playback software or the dedicated video verification tool. The dedicated software is intuitive in its design with minimum risk of exposure to non-authorized personnel as it is separate from GX Works3.

## 2 Data flow analysis Relationship mapping between devices

Relationships between device and label data are shown as a flowchart on GX Works3. From here, engineers can highlight an area of concern and drill down to devices that are related to the original issue. Rather than combing through lines of logic program code, specific changes can be singled out pinpointing the actual code which is causing the data value.

## 3 GX LogViewer Device change analysis

Monitoring of device statuses can be done similar to an oscilloscope showing various data in waveform highlighting when a process is developing a fault.

## 4 GX Works3 Check between data changes and program offline

Relationship between changes in data values and the program can be easily confirmed offline.

## Log marker function

### Faster cause analysis by synchronized video feed, program and waveform monitoring

#### 1 Register milestone points on the timeline

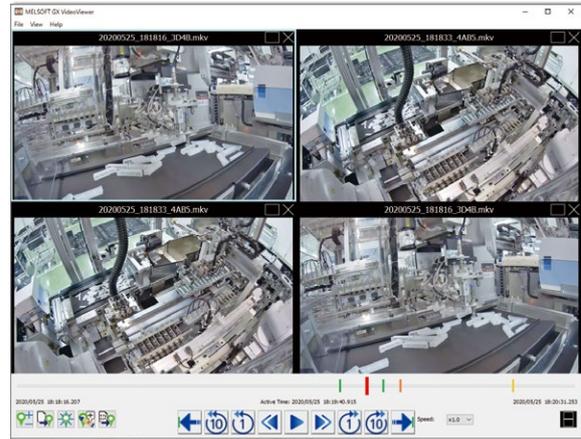
Milestone points (log marker) can be added to the main video timeline enabling reference points for areas of concern. These points can be saved for later use or for distributing amongst other support personnel enabling multiple teams to analyze the problem area of the application.

#### 2 Categorize registered milestone points

Log markers can be color-coded according to importance and event type with support of commenting, realizing efficient analysis.

#### 3 Confirming video feed with collected data

Video feeds can be used to visually confirm areas that maybe causing errors together with the program. The milestone points (log marker) are synchronized with each tool and reproduced at different playback speeds offering a realistic view of the process together with the control data collected.

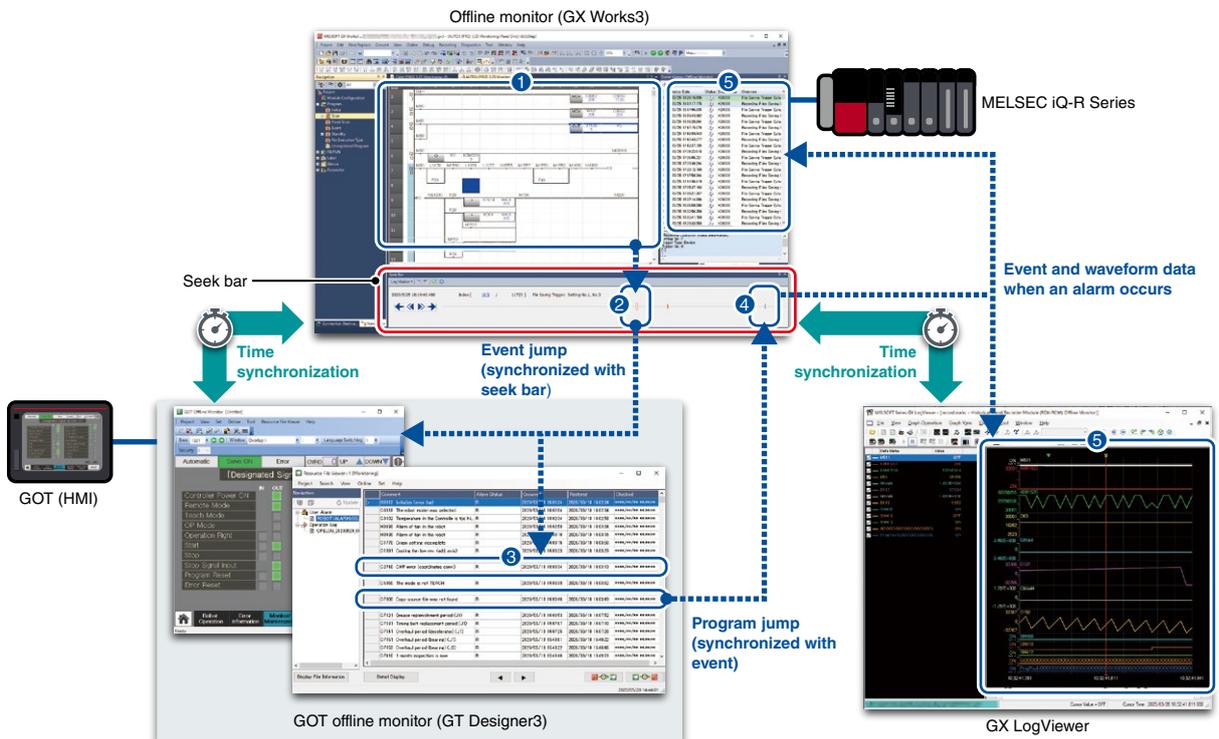


Camera video feed

## Offline monitoring

### Synchronized playback of program, waveform data, GOT (HMI) (screens, operation logs, alarm history)

Playback of data can be done very simply just by loading the recorded data into GX Works3, automatically executing all other necessary tools. Using the "seek bar" enables to jump back and forth within the timeline synchronizing data between GX Works3 program monitoring (circuit monitor), GX LogViewer (waveform display), and GOT (HMI) "screens, operation logs, alarm history".



## ② Data flow analysis

### Data flow analysis function

#### ① Device, label, and comments in flowchart format

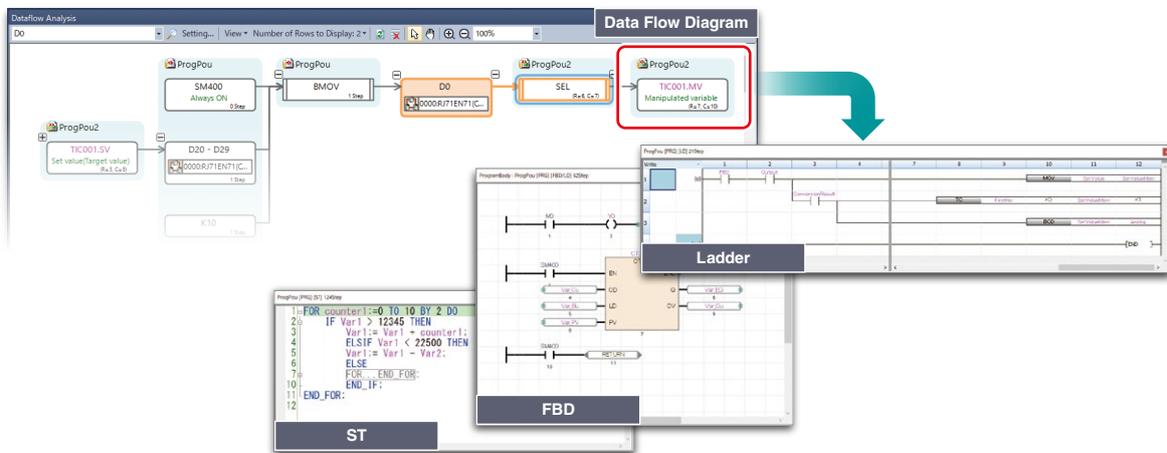
Device and label comments can be checked easily within the flowchart without needing to go to a separate screen.

#### ② Display instruction name

The flow of the program can be tracked easily as instruction names are also displayed.

#### ③ Main program languages supported

Analysis can be done for not only ladder programs but also for function block diagram (FBD), SFC (within ZOOM) and ST language programs.

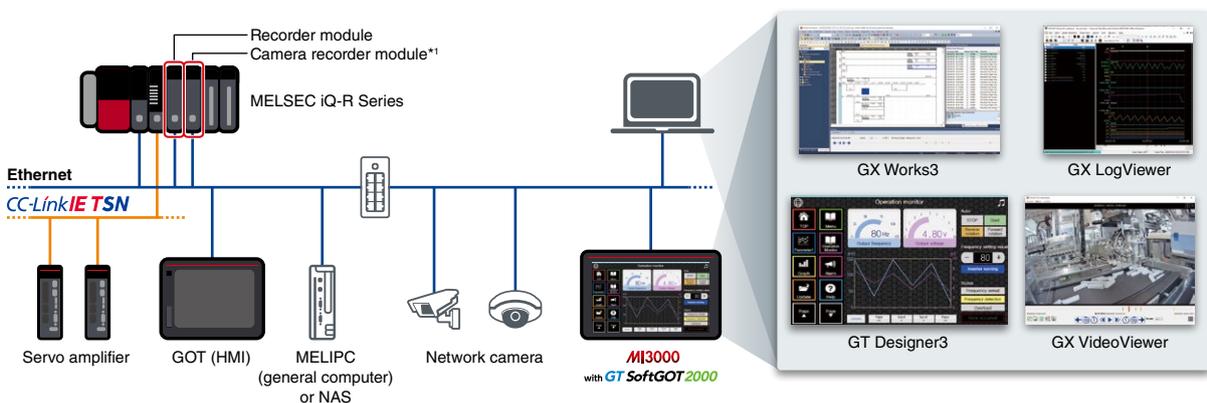


### Troubleshooting using servo (axis) data

Troubleshooting of servo data can be done by correlation of the motion module and recorder module data. Certain alarms can be triggered where the torque limit is reached due to an irregular value change (of 0), for example.

### Simplified analysis using panel computer

Multiple data can be reproduced on a panel computer such as the MELIPC MI3000 (embedded Windows® OS). Considering the panel computer is situated on the shop floor, various historical alarms and operation logs can be confirmed efficiently at the point where a problem occurs.



\*1. Soon to be released

## System recorder related products specifications

### System-wide recording Recording function

#### Recorder module RD81RC96

Automatic collection of all device changes per controller scan time (with time-stamp) prior to and after an error occurs.

- Collect all device/label and event history data
- Easily register device trigger and recording time before and after the event



RD81RC96

#### Recorder module specifications

Item	RD81RC96
Number of settings	Up to 4
Save destination	SD memory card, file server
Recording method	File saving trigger only, recording startup trigger + file saving trigger
File saving trigger	Max. 16 per setting (4 settings x 16)
Recording startup trigger	Device of the control CPU, elapsed time after completion of data collection (max.16 per recording setting)
Recording target	Rise/fall accumulation period (1 per recording setting)
Sampling method	Device/label, event history
Number of connectable modules	Each scan, time specification, trigger instruction, safety cycle time
Compatible CPU module	One recorder module per control CPU R04/08/16/32/120CPU, R04/08/16/32/120ENCPU R08/16/32/120SFPCPU*1

\*1. Compatible CPU modules can be checked from product information. Please refer to System recorder device configuration on P.15, relevant manual, or technical news.

### System-wide recording Servo system recorder

#### Motion module RD78GH RD78G

#### Servo amplifier MR-J5 Series

Automatic collection of all servo control system drive axes data from the motion module and servo amplifier when an error occurs. Can be used for easy troubleshooting based on command and feedback values.

- Collect servo system recorder data without programming
- Data collection of all drive system axes



MR-J5-G

RD78G

### System-wide recording Network camera image recording

#### Camera recording package\*2

The package consists of dedicated function blocks (FB) used for triggering the camera to initiate recording, saving the video files to network storage and a connection users guide.

#### Camera recording package specifications

Item	Camera recording package
Applicable cameras	Camera
	Amount (max.)
Save destination	AXIS COMMUNICATIONS (AXIS) Network camera*3 RnCPU:16, RnENCPU:64, RJ71EN71:112*4
Included item	File server
	FB
Compatible module	Time setting, recording direction, virtual input port control
	Connection guideline
Compatible module	Commercially available network camera and connection and setup guideline for included FBs
	CPU embedded Ethernet port
	Ethernet module

\*2. For information on obtaining the package, please contact your local Mitsubishi Electric sales office or representative.

\*3. For details of compatible camera, please refer to the technical news (FA-A-0306).

\*4. The maximum number of cameras depends on the amount of available connections not used by other devices. For more information, please refer to MELSEC iQ-R Ethernet/CC-Link IE User's Manual (Startup) (SH-081256ENG).

\*5. R00/01/02CPU do not support recording function of the RD81RC96, therefore linkage with the camera recording images is not supported.

## System-wide recording Camera recorder module\*1

Recorder module with embedded camera recording function.

### Camera recorder module specifications

Item		Camera recorder module
Recording function		Equivalent to recorder module RD81RC96
Applicable cameras	Camera	ONVIF Profile S compliant network camera
	Amount	Not yet determined
Save destination		SD memory card, file server

\*1. Soon to be released

## Simplified analysis Offline monitor

### GX Works3, GX LogViewer, GT Designer3

Data/control program operation and GOT (HMI) display/operation log can be synchronized (event sequence) making it easier to visualize an error.

### Offline monitor specifications

Item		Offline monitor
Play	Waveform data	Selected device, label (GX LogViewer*2)
	Control program	Ladder diagram, ST, FBD/LD program (GX Works3*2)
	Operation log of GOT (HMI)	Resource data (GT Designer3*2)
Operation bar/seek bar		Move by seek bar
Monitor function		Device block monitor, watch window, program monitor
Change point search		Conditional search, display in a list (GX LogViewer*2)
Waveform display		Selected device/label displayed in waveform (GX LogViewer*2)
	Device/label to be displayed	Max. 32

\*2. GX Works3 Ver.1.065T or later, GX LogViewer Ver.1.106K or later, GT Designer3 Ver.1.236W or later

## Simplified analysis Camera image replay function

### GX VideoViewer\*3

Recorded camera image can be checked by a general video replay software as well as dedicated GX VideoViewer allowing simultaneous replay of up to four screens.

### Camera image replay function specifications

Item	Camera image replay function
Camera image replay	Play/pause, play forward/backward one frame, jump to the marked image, Select play speed (0.1/0.25/0.5/1/2/4/8x), select play forward/backward speed (1 frame/1 s/10 s) specify the image to play by moving the slider
Compatible file format	.mkv
Image resolution (pixel)	320 x 240, 640 x 480, 1280 x 720, 1920 x 1080

\*3. For information on how to obtain the software, please contact your local Mitsubishi Electric sales office or representative.

## Simplified analysis Log marker function

### ■ GX Works3, GX LogViewer, GX VideoViewer

Milestone points (log marker) can be added to the main video timeline enabling reference points for areas of concern. These points are synchronized with both GX Works3 and GX LogViewer including GX VideoViewer.

#### Log marker function specifications

Item	Log marker function
Marking	Add/delete marking position, read log marker information, jump to the marking position (GX VideoViewer, GX Works3, GX LogViewer*), adding comments, change marking color

\*1. GX Works3 Ver.1.065T or later, GX LogViewer Ver.1.106K or later

## Simplified analysis Data flow analysis

### ■ GX Works3\*2

Device/label data that have an area of concern can be easily selected from the flowchart, highlighting the relevant part of the program affecting the data value change.

#### Data flow analysis specifications

Item	Data flow analysis
Analysis target device	User device, safety user device*3, system device, safety system device*3, link direct device, module access device, CPU buffer memory access device, index register, file register, refresh data register, nesting, pointer, etc.
Analysis target label	Global label, safety global label*3, local label, safety local label*3, module label, general/safety shared label*3, system label
	Structure, array
Analysis target program	Ladder diagram, ST, FBD/LD, SFC (within ZOOM)
	Function block, function

\*2. GX Works3 Ver.1.065T or later, GX LogViewer Ver.1.106K or later

GX Works3 Ver.1.070Y or later when using safety CPU R08/16/32/120SFCPU

\*3. Available when using safety CPU R08/16/32/120SFCPU

# System recorder device configuration

## Basic configuration

### Logging of all device and label data

- ① MELSEC iQ-R Series CPU module\*1
- ② Recorder module\*2
- ③ SD memory card

\*1. CPU modules with product information (3rd and 4th digits) stated below support logging of all device and label data.

Model	Product information	Model	Product information	Model	Product information
R04CPU	*19" or later	R04ENCPU	*32" or later	R08SFPCPU	*05" or later
R08CPU	*20" or later	R08ENCPU	*30" or later	R16SFPCPU	
R16CPU	*20" or later	R16ENCPU	*27" or later	R32SFPCPU	
R32CPU	*17" or later	R32ENCPU	*30" or later	R120SFPCPU	
R120CPU	*17" or later	R120ENCPU	*22" or later		

For how to check product information, please refer to the MELSEC iQ-R Module Configuration Manual SH-081262ENG.

- \*2. GX Works3 (Ver.1.065T or later) is necessary for recording setting and module setting.  
GX Works3 (Ver.1.070Y or later) is necessary when using RnSFPCPU.



## Basic configuration + Camera recording package

### Recording by logging + program

- ① MELSEC iQ-R Series CPU module\*3
- ② Network camera\*4
- ③ Camera recording package (FB and guideline)
- ④ Recorder module
- ⑤ SD memory card or file server (NAS or computer)
- ⑥ PoE switching hub (IEEE802.3at (PoE+) compliant)\*5

\*3. CPU modules with product information (3rd and 4th digits) stated below support logging of all device and label data.

Model	Product information	Model	Product information
R04CPU	*19" or later	R04ENCPU	*32" or later
R08CPU	*20" or later	R08ENCPU	*30" or later
R16CPU	*20" or later	R16ENCPU	*27" or later
R32CPU	*17" or later	R32ENCPU	*30" or later
R120CPU	*17" or later	R120ENCPU	*22" or later

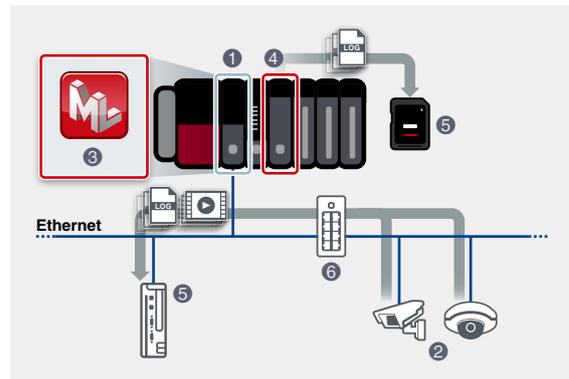
For how to check product information, please refer to the MELSEC iQ-R Module Configuration Manual SH-081262ENG.

To use camera image recording only, below CPU modules can be used.

- R00/01/02/04/08/16/32/120CPU, R04/08/16/32/120ENCPU (no restriction to product information)
- In addition to the above CPU Ethernet ports, the Ethernet module (RJ71EN71) can also be used

\*4. For details of compatible AXIS COMMUNICATIONS (AXIS) Network cameras, please refer to the technical news (FA-A-0306).

\*5. PoE: Power over Ethernet



## Basic configuration + Camera recorder module\*6

### Easier recording by logging + module\*6

- ① MELSEC iQ-R Series CPU module\*7\*8
- ② Network camera\*9
- ③ Camera recorder module\*8
- ④ SD memory card or file server (NAS or computer)
- ⑤ PoE switching hub (IEEE802.3at (PoE+) compliant)

\*6. Soon to be released

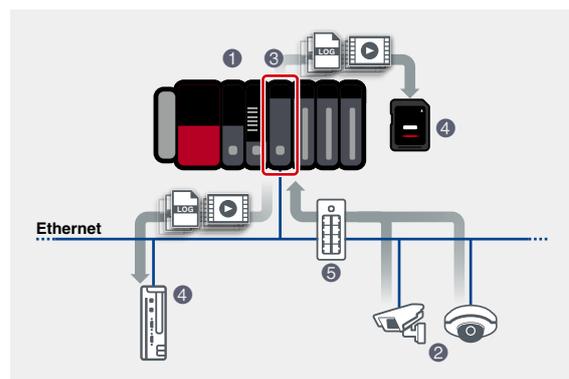
\*7. CPU modules with product information (3rd and 4th digits) stated below support logging of all device and label data.

Model	Product information	Model	Product information	Model	Product information
R04CPU	*19" or later	R04ENCPU	*32" or later	R08SFPCPU	*05" or later
R08CPU	*20" or later	R08ENCPU	*30" or later	R16SFPCPU	
R16CPU	*20" or later	R16ENCPU	*27" or later	R32SFPCPU	
R32CPU	*17" or later	R32ENCPU	*30" or later	R120SFPCPU	
R120CPU	*17" or later	R120ENCPU	*22" or later		

For how to check product information, please refer to the MELSEC iQ-R Module Configuration Manual SH-081262ENG.

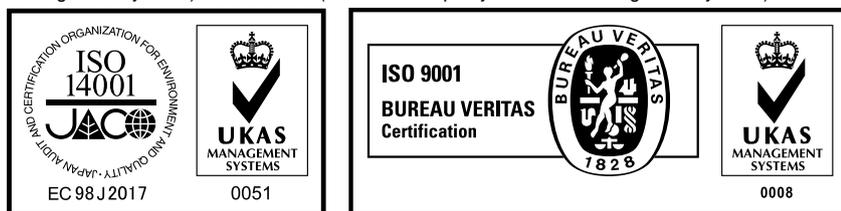
\*8. GX Works3 is necessary for recording setting and module and camera setting (not yet supported).

\*9. ONVIF Profile S compliant network camera



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