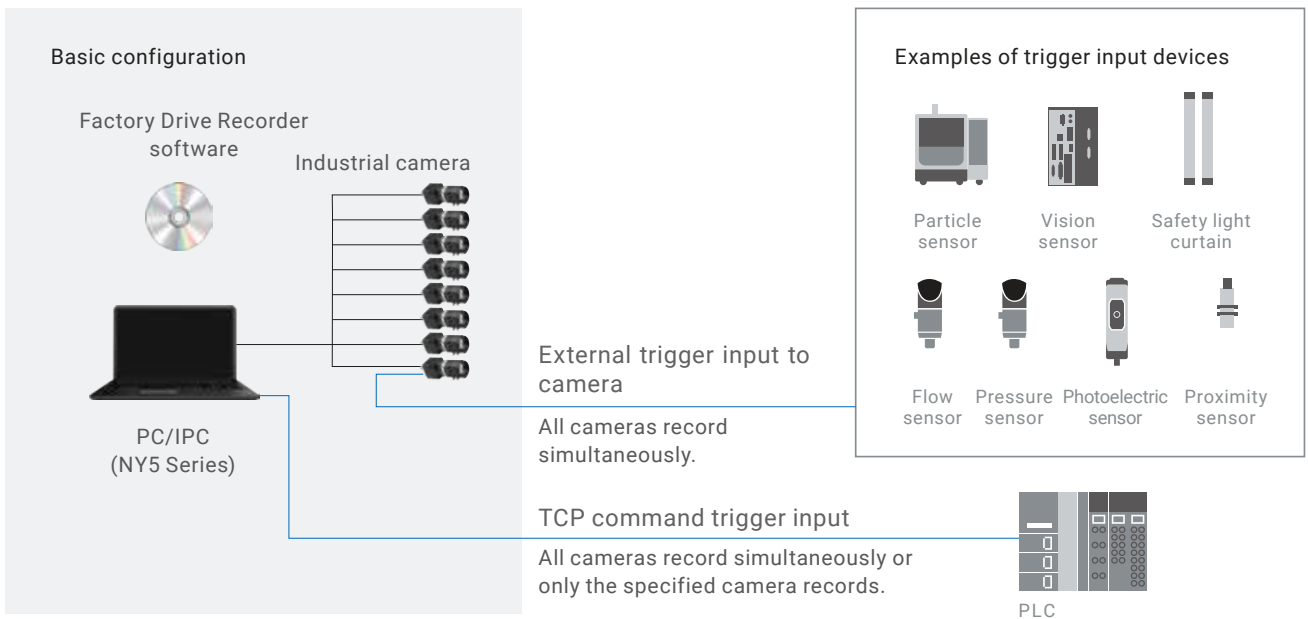Factory Drive Recorder

STC-FDR-SW01

Configure the system in three easy steps

STEP1 Prepare devices

The camera and software bundle is ready for immediate use without the need for the sort of verification and programming typically required when combining general cameras with vision software. Recording can be started immediately by using input from the sensor or PLC installed at the production site as trigger.

Basic configuration

Factory Drive Recorder software

Industrial camera

PC/IPC (NY5 Series)

External trigger input to camera

All cameras record simultaneously.

TCP command trigger input

All cameras record simultaneously or only the specified camera records.

Examples of trigger input devices

Particle sensor

Vision sensor

Safety light curtain

Flow sensor

Pressure sensor

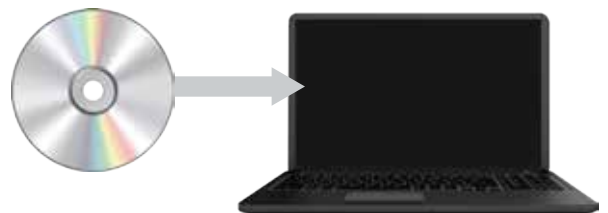Photoelectric sensor

Proximity sensor

PLC

Note: Up to eight cameras can simultaneously record. A hub is required to connect cameras depending on the PC specifications and the number of connected cameras.

STEP2 Install

Install the Factory Drive Recorder software and camera driver (SentechSDK)*1 on your PC or IPC.

*1. Install the latest version of the camera driver (SentechSDK) downloaded from the Omron Sentech's website.

STEP3 Set recording conditions

Configure camera settings, recording settings, and settings for saving recorded videos.

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Ordering Information

Software

Item	Max. no. of connectable cameras	Model
Factory Drive Recorder	8 per PC	STC-FDR-SW01

Cameras

Item		Max. resolution	High-speed*1	Ultra-compact	Cable extension (100 m)	Model
GigE Vision Camera	STC-M Series	20.4 Mpix			✓	Refer to the *Industrial Camera Catalog* (Cat. No. Q259).
USB3 Vision Camera	STC-M Series	20.4 Mpix	✓			
USB3 Vision Camera Compact Remote Head Model	STC-R Series	1.6 Mpix	✓	✓		
GigE Vision Board	B-Series	0.4 to 20 Mpix		✓	✓	
UVC Cameras	CMOS	1.3 Mpix		✓		

*1. The maximum frame rate depends on your PC performance, the number of connected cameras, and the camera type. Test the products before actual use.

Ratings and Specifications

Specifications

Item		Description
Components		Installation CD (Factory Drive Recorder installer, SentechSDK installer, manual), license ID
System requirements	CPU	Core-i5 2 GHz or faster (Core-i7 3 GHz or faster recommended)
	RAM	8 GB min. (16 GB min. recommended)
	Storage	At least 1 GB of available space is required for installation. Allocate sufficient space to save recorded images.
	OS	Windows 10 (64-bit)
Video	Frame rate	Depends on the number of connected cameras, image resolution, and performance of the PC
	Save format	AVI format (MotionJPEG)

Functions

Item	Function	Description
Display	Live Display	Displays a live image from the connected camera
	Video Display	Displays recorded video
Recording	Continuous Recording	Records as configured (days and time)
	Manual Recording	Starts and stops recording manually
	Trigger Recording	Records when triggered
Recording setting	Camera Settings	Exposure time, gain, frame rate
	Trigger Settings	Time Trigger, Motion Detection, Master Image Comparison, Trigger Signal (external input to camera, TCP command input)
	Save Settings	Save folder, file name
	Language Setting	English or Japanese
I/O setting	External Input	External trigger input to camera, TCP command (trigger input)
	External Output	Message output via TCP (start and stop recording)
History	Display Recording History	Shows a list of latest 100 recorded files
	Export History File	Exports recording history and recorded files in HTML format

Recording methods

Recording method		Description	Recording time
Continuous Recording		Records as configured (days and time)	Up to 1 year (366 days)
Manual Recording		Starts and stops recording manually	Up to 60 minutes
Trigger Recording	Time Trigger	Records once a day at specified time	Up to 5 minutes before and after trigger
	Motion Detection	Records when the difference between an image and the preceding image exceeds the specified value	
	Master Image Comparison	Records when the difference between a predefined still image and a camera image exceeds the specified value	
	Trigger Signal (External trigger, I/O)	Records when a trigger signal is input to the camera	
	Trigger Signal (TCP command)	Records when a TCP command is input to the camera	

Related Products

Status Sensing Solution

The catalog introduces case examples and products to improve quality through digitization of equipment status (Cat. No. E603)

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• Human Machine Interface (HMI)

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• Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
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• Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
• Rotary Encoders • Ultrasonic Sensors

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Software
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