



(1) Controllers

Select a controller based on the required processing speed and network.

	Series	CPU	Performance	Memory	No. of connectable cameras	Fieldbus
High-speed, Large-capacity Controller	FH-5550 Series	Intel® Core™ i7 processor 4 cores	★★★★★	RAM 32 GB, ROM 64 GB	8 max.	PROFINET, EtherNet/IP™, EtherCAT
High-speed Controller	FH-5050 Series	Intel® Core™ i7 processor 4 cores	★★★★★	RAM 8 GB, ROM 32 GB	8 max.	PROFINET, EtherNet/IP™, EtherCAT
Standard Controller	FH-2050 Series	Intel® Celeron® processor 2 cores	★★★	RAM 8 GB, ROM 32 GB	8 max.	PROFINET, EtherNet/IP™, EtherCAT
Lite Controller	FH-L550 Series	Intel® Atom® processor 2 cores	★	RAM 4 GB, ROM 4 GB	4 max.	PROFINET, EtherNet/IP™

★: The more stars, the higher the performance.

Optional product (sold separately)	Model
Scratch Detect AI Software Installer*	FH-UMAI1

* This product can be installed on the FH-5□50-series Controller (version 6.40 or later).

(2) Cameras

Choose the right camera to suit your required number of pixels. Easy-to-use cameras with built-in light are also available.



No. of pixels	High-speed camera	Standard camera	Rolling shutter camera	Camera with built-in light
20.4 Mpix*	---	---	FH-S□21R	---
12 Mpix	FH-S□X12	---	---	---
5 Mpix	FH-S□X05	FZ-S□5M3	FH-S□05R	---
2 Mpix	FH-S□02	FZ-S□2M	---	---
0.4 Mpix/0.3 Mpix	FH-S□X	FZ-S□	---	FZ-SQ□□□□

* 20.4 Mpix Cameras can be used with the FH-5050/2050-series High-speed, Large-capacity Controllers.

(4) Lights

Omron offers a complete line-up of lights required for image processing. The use of the camera-mount lighting controller allows you to control lighting conditions from the FH Controller, making system configuration simple.



External lighting controller

Description	LED	High-brightness LED
Camera-mount Lighting Controller	FLV-TCC	FL-TCC
Bar Light	FLV-BR	FL-BR
Direct Ring Light	FLV-DR	FL-DR
Low Angle Ring Light	FLV-DL	---
Coaxial Light	FLV-CL	---
Shadowless Light	FLV-FR/FP/FS/FQ	---
Spot Light	FLV-EP	---
Direct Back/Edge Type Light	FLV-DB/EB	---
Dome Light	FLV-DD	---
Photometric Stereo Light *	---	FL-PS

* The FL-TCC Camera-mount Lighting Controller cannot be used. Use the FL-TCC1PS Lighting Controller for Photometric Stereo Light.

Built-in lighting controller

Description	Model
MDMC Light	FL-MD

Refer to the Vision Accessory Catalog (Cat. No. Q198) for details.

(5) Touch panel monitor

The touch panel monitor is optimized for the operation of the FH Series.



Description	Model
Touch Panel Monitor 12.1 inches	FH-MT12
DVI-Analog Conversion Cable for Touch Panel Monitor	FH-VMDA □□
USB Cable for Touch Panel Monitor	FH-VUAB □□

* RS-232C cables for long-distance connections are also available. Refer to Ordering Information for details.

(3) Camera cables

The cable line-up includes bend-resistant cables and right-angle cables. Use the FZ-VSJ Cable Extension Unit for cable extensions.



Description	Model
Camera Cable	FZ-VS□ □□□M
Right-angle Camera Cable	FZ-VSL□ □□□M
Bend-resistant Camera Cable	FZ-VSB3 □□□M
Bend-resistant Right-angle Camera Cable	FZ-VSLB3 □□□M
Cable Extension Unit	FZ-VSJ

(6) Sysmac Studio

The development environment for the Sysmac platform allows you to configure and simulate the FH Series on your PC.



Description	Model
DVD for installation	SYSMAC-SE200D
Software license (Vision Edition)	SYSMAC-VE001L

(7) Application producer

This development environment enables you to customize FH functions. It includes sample codes and wizards that will help you develop your own interfaces and processing items.



Description	Model
DVD for installation	FH-AP1
Software license	FH-AP1L