



FH-5050

FH high-speed / high performance controller 4-core, NPN/PNP, 2 cameras

Specifications

Performance	Very high
Processor family	Intel® Core™ i7
Memory	8 GB RAM (non ECC)
AI Scratch detection filter	✓
AI FineMatching	✓
Number of cameras	2
Integrated monitor	✗
Communication port(s)	EtherCAT Slave, EtherNet/IP, Ethernet TCP/IP, PROFINET Slave, Serial RS-232C, USB
Output type	PNP/NPN
Application	2D Robot guidance, 3D Bin picking, AI fine matching, AI scratch detection, Bead inspection, Code reading, Code verification, Color inspection, Counting, Defect inspection, Measurement inspection, OCR / OCV, Presence / Absence

Fits to



FH-SMDA-GS050B

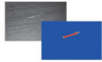
FH 3D camera, FOV
400x300x200 mm, WD 500
mm, 24 V

Accessories



FH-MT12

Vision system FH touch panel monitor 12-inch



FH-UMAI1

AI filter installer for FH controller. USB license key dongle



FH-VMDA 2M

Vision system accessory FH conversion cable monitor DVI-RGB 2 m



FH-VMDA 5M

Vision system accessory FH conversion cable monitor DVI-RGB 5 m



FH-VUAB 2M

Vision system accessory FH USB cable touch panel 2 m



FH-VUAB 5M

Vision system accessory FH USB cable touch panel 5 m



FH-XDM-L

FH-L DIN rail mounting bracket



GX-JC03

3-port EtherCAT Junction module, 24 VDC power supply



GX-JC06

6-port EtherCAT Junction module, 24 VDC power supply

HMC-SD292

2 GB SD memory card

HMC-SD492

4 GB SD memory card



W4S1-05D

5-port enhanced Ethernet switch

XW2Z-200EE

Parallel I/O cable for terminal block XW2R-_34G-T, 2 m



XW2Z-S013-2

Parallel I/O cable, 2m, for FH series only



Downloads

CAD Library



3D Robot Vision AOS Camera Calibration Operation Manual

EN PDF 4.73 MB



CJ-series -[Ethernet/IP]- FH-series Vision System Connection Guide

EN PDF 2.83 MB



FH Series - PROFINET Setup Manual

EN PDF 1.9 MB



FH Series 3D Vision System -[Ethernet]- ABB Robot Controller IRC5 Connection Guide

EN PDF 1.81 MB



FH Series 3D Vision System -[Ethernet]- Denso Robot Controller RC8A Connection Guide

EN PDF 1.81 MB



FH Series 3D Vision System -[Ethernet]- FANUC Robot Controller R-30iB Mate Connection Guide

EN PDF 1.76 MB



FH Series 3D Vision System -[Ethernet]- Nachi-Fujikoshi Robot Connection Guide

EN PDF 1.9 MB



FH Series 3D Vision System -[Ethernet]- TM- series Connection Guide

EN PDF 2.49 MB



FH Series 3D Vision System -[Ethernet]- Viper Series Connection Guide

EN PDF 2 MB



FH Series 3D Vision System -[Ethernet]- Yaskawa Robot Controller YRC1000 Connection Guide

EN PDF 1.42 MB



FH-Sim Installation V631 Software

EN ZIP 34.1 MB



FH-Sim Installation V640 Software

EN ZIP 41.9 MB



FH-series Vision System Datasheet

EN PDF 30.1 MB



FH/FHV Launcher V631 Software

EN ZIP 488 KB



FH/FHV Launcher V640 Software

EN ZIP 489 KB



FH/FHV Vision Application Guide for ABB robots Practice Guide

EN PDF 3.01 MB



FH/FHV Vision Application Guide for Denso robots Practice Guide

EN PDF 2.93 MB



FH/FHV Vision Application Guide for Epson robots Practice Guide

EN PDF 2.86 MB



FH/FHV Vision Application Guide for Fanuc robots

Practice Guide

EN PDF 3.02 MB



FH/FHV Vision Application Guide for Omron robots

Practice Guide

EN PDF 3.27 MB



Maxell CR-series HR

Battery Safety Datasheet

EN PDF 259 KB



NJ-series -[EtherNet/IP]-FH-series Vision System

Connection Guide

EN ZIP 1.96 MB



NJ/CJ-series / Siemens S7-1500 -[PROFINET]-FH-series+FHV7-series

Connection Guide

EN PDF 1.9 MB



Omron FH-xxxx-xx

PROFINET GSDML file

EN ZIP 4.06 KB



Selection Guide for Vision Sensors

Brochure

EN PDF 991 KB



Xpectia FH

Brochure

EN PDF 19.7 MB

TERMS OF WEBSITE USE

This PDF document was created from the European OMRON Industrial Automation website on 28 August, 2022. Click here for [terms of use](#).

OMRON

INDUSTRIAL AUTOMATION | [INDUSTRIAL.OMRON.EU](https://www.industrial.omron.eu)