

# **Correction Reissue**

# Product Discontinuation Notices

Issue Date
August 19th, 2024
20221223\_DOP\_00001

#### **Product Discontinuation**

High-speed Digital CMOS Cameras (Color)

# **Model FH-SC**



High-speed Digital CMOS Cameras (Monochrome)

#### **Model FH-SM**

# **Recommended Replacement**

High-speed Digital CMOS Cameras (Color)

#### Model FH-SCX or

Digital CCD Cameras (Color)

### **Model FZ-SC**

High-speed Digital CMOS Cameras (Monochrome)

# Model FH-SMX or

Digital CCD Cameras (Monochrome)

Model FZ-S

# [ Final order entry date ]

Model FH-SC: The end of April, 2025 Model FH-SM: The end of March, 2027

In addition, sales will end as soon as the product runs out.

## [ Date of The Last Shipping ]

Model FH-SC: The end of June, 2025 Model FH-SM: The end of May, 2027

#### [ Scheduled date of maintenance close ]

Model FH-SC: The end of April, 2030 Model FH-SM: The end of March, 2032

#### [ Caution on recommended replacement ]

When using FH-SCX or FH-SMX, improvement in measurement time and improvement of the sensitivity can be expected.

When using FZ-SC or FZ-S, a change in the measurement range of the scene data can be suppressed small because pixels number and the element size are same.

It's different in dimensions, so reconsideration of the installation environment according to the specification of the camera after change, please.

It's different in the function of the camera/performance, so there is a possibility that measurement processing time and the brightness of the picture change according to the use environment of the customer. I would like to ask you to carry out performance verification beforehand in case of use.

When using FH-SCX or FH-SMX, it is needed an upgrade of system software of the controller body (FH series). You can use only Ver after 6.11.

[ Difference from discontinued product ]

Recommended replacement Model	Body Color	Dimen- sions	Wire connection	Mounting Dimensions	Charac- teristics	Operation ratings	Operation methods
FH-SCX	0	×	0	0	×	×	0
FZ-SC	0	×	0	0	×	×	0
FH-SMX	0	×	0	0	×	×	0
FZ-S	0	×	0	0	×	×	0

\*\* : Compatible

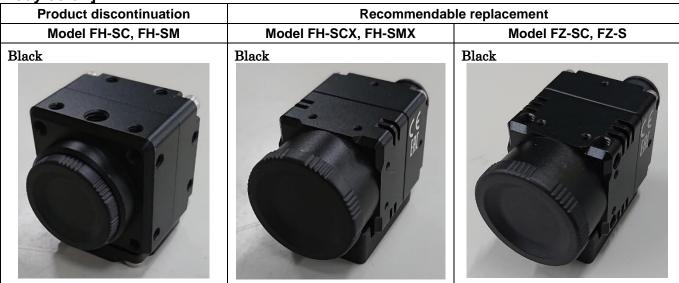
\* : The change is a little/Almost compatible
-- : Not compatible
- : No corresponding specification

[ Product Discontinuation and recommended replacement ]

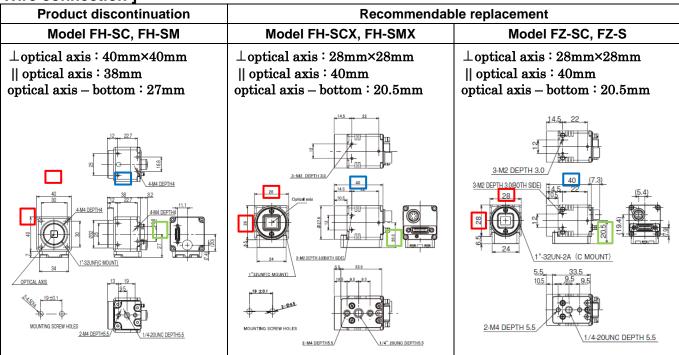
[ 1 Toddet Discontinuation and recommended replacement ]			
Product discontinuation	Recommended replacement		
FH-SC	FH-SCX		
FR-5C	FZ-SC		
FH-SM	FH-SMX		
FN-3 V	FZ-S		

# **OMRON**

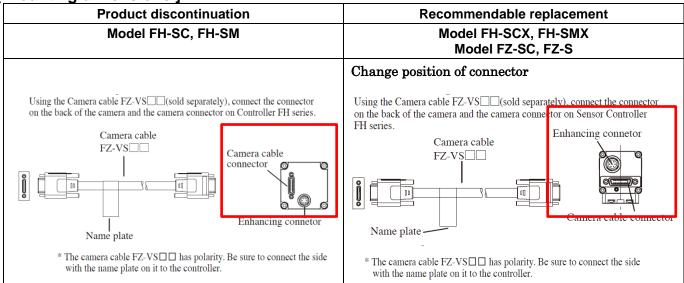
[ Body color ]



[ Wire connection ]



[ Mounting dimensions ]



[ Dimensions 1

Product discontinuation	Recommendable replacement	
Model FH-SC, FH-SM	Model FH-SCX, FH-SMX Model FZ-SC, FZ-S	
No change		
T.A.SDia	19±0.1 -	
MOUNTI	ING SCREW HOLES	

# [ Characteristics ] OGeneral specifications

Item	Product discontinuation	Recommendable replacement		
item	Model FH-SC, FH-SM	Model FH-SCX, FH-SMX	Model FZ-SC, FZ-S	
Power consumption	1.7 W max. (13 VDC)	1.6 W max. (13 VDC)	2.4W max.(12V DC)	
Vibration resistance	10 to 150Hz: half-amplitude: 0.35mm:(maximum acceleration: 50m/s²), 10 times for 8 minutes each in 3 directions			
Shock resistance	Shock resistance 150m/s <sup>2</sup> , 3 times each in 6 directions			
Ambient Temperature	Operating: 0 to 40 °C Storage: -25 to 65 °C With no icing nor condensation  Operating: 0 to 50 °C Storage: -25 to 65 °C With no icing nor condensation		1	
Ambient humidity	Operating and storage: 35% to 85% with no condensation			
Ambient environment	No corrosive gases			
Degree of protection	IEC60529 IP40 (in-panel)	IEC60529 IP40 (in-panel)	IEC60529 IP20 (in-panel)	
Center positional accuracy of optical axis	X,Y: ±0.31mm θ X, θ Y:±1.7°	$X,Y: \pm 0.30$ mm $\theta X, \theta Y: \pm 1.5^{\circ}$	X,Y: ±0.31mm θ X, θ Y: ±2.1°	
Materials	Case: Aluminum Camera base: PC/GF Mount screw: brass	Case: Aluminum Camera base: PC/ABS Mount screw: brass		
Weight	Approx.105 g (including base)	Approx.48 g (including base)	Approx.55 g (including base)	
Accessories	Instruction Sheet     General Compliance Information and Instructions for EU     High speed mode: 5 m max.     Standard mode: Using FZ-VS4: 15 m max.     Using a dedicated product other than FZ-VS4: 10 m max.			
Cable length	Standard mode: 15m max *Only Standard mode	Standard mode:15m max High-speed mode:5m max	Standard mode: 15m max *Only Standard mode	

# **OPerformance specifications**

14	Product discontinuation	Recommendal	Recommendable replacement		
Item	Model FH-SC, FH-SM	Model FH-SCX, FH-SMX	Model FZ-SC, FZ-S		
Image element	1/3 inch CMOS	1/2.9 inch CMOS	1/3 inch CCD		
Effective pixels	640(H) × 480(V)	720(H)×540(V)	640(H) × 480(V)		
Pixel size	7.4(µm) × 7.4(µm)	6.9(µm)×6.9(µm)	7.4(µm) × 7.4(µm)		
Scanning method	Progressive				
Shutter type	Global shutter				
Synchronization	Internal Sync.				
Frame rate	Standard mode: 308 fps *Only Standard mode	Standard mode: 261.7fps High-speed mode: 523.6fps	Standard mode: 80fps *Only Standard mode		
Partial function	4 to 480 lines (2 lines each)	4 to 540 lines (4 lines each)	12 to 480 lines (2 lines each)		
Video output	Digital 8bits		Digital 10bit		

Item	Product discontinuation	Recommendable replacement		
item	Model FH-SC, FH-SM	Model FH-SCX, FH-SMX	Model FZ-SC, FZ-S	
Gain	x1 ~ x5 (Digital gain)	0 ~ 24dB (Analog Gain)	FZ-SC 0 ~ +13dB (Analog Gain) FZ-S 0 ~ +20dB (Analog Gain)	
Shutter speed	20μs ~ 100,000μs	1μs ~ 100,000μs	20μs ~ 100,000μs	
Lens mounting	C mount (Recommended Mode : 3Z4S-LE SV-V Series)			

[ Operation ratings ]

	Product discontinuation	Recommendable replacement		
Item	Model FH-SC, FH-SM	Model FH-SCX, FH-SMX	Model FZ-SC, FZ-S	
Spectral sensitivity	FH-SC/SM	FH-SCX  Red — Green — Blue  10 08 08 08 08 08 09 04 00 05 00 050 050 050 050 050 050 050	FZ-SC	
characteristics		FH-SMX  10 9 9 08 9 04 9 04 02 04 00 450 550 550 650 650 750 750 650 650 650 750 750 650 650 650 750 750 650 650 650 750 750 650 650 650 750 750 650 650 650 750 750 650 650 650 750 750 650 650 650 750 750 750 750 750 750 750 750 750 7	FZ-S	
Mirror an image	With function	With function	Without function	
Multi-slope	With function (Only monochrome)	Without function	Without function	
Binning setting	With function (Only monochrome)	Without function	With function (Only monochrome)	

Operation methods ]

Product discontinuation	Recommendable replacement		
Model FH-SC, FH-SM	Model FH-SCX, FH-SMX		
	Model FZ-SC, FZ-S		

## No change

For details on the operation method, refer to the following manual.

- Vision System User's Manual (Z365)
- Vision System Hardware Setup Manual (Z366)
- •Vision System Processing Item Function Reference Manual (Z341)

Specifications and prices in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.