

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)

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.

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[Difference from discontinued product]

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

** : Compatible

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

[Product Discontinuation and recommended replacement]

Product discontinuation	Recommended replacement
FH-SC	FH-SCX
FR-30	FZ-SC
FH-SM	FH-SMX
	FZ-S

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Body color] Recommendable replacement Model FH-SC, FH-SM Model FH-SCX, FH-SMX Model FZ-SC, FZ-S Black Black Black Image: Color of the second second

[Wire connection]



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[Mounting dimensions]



[Dimensions]

Product discontinuation	Recommendable replacement	
Model FH-SC, FH-SM	Model FH-SCX, FH-SMX Model FZ-SC, FZ-S	
No change		
Z.H.SDia	<u>19±0.1</u> → — —	
MOUN	TING SCREW HOLES	

[Characteristics] OGeneral specifications

ltom	Product discontinuation	Recommendable replacement		
ltem	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: 0.3 10 times for 8 minutes each in 3		0m/s²),	
Shock resistance	Shock resistance 150m/s ² , 3 times each in 6 directions			
Ambient Temperature	Operating: 0 to 40 °COperating: 0 to 50 °CStorage: -25 to 65 °CStorage: -25 to 65 °Cwith no icing nor condensationwith no icing nor condensation			
Ambient humidity	Operating and storage: 35% to 8 with no condensation	35%		
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: ± 0.31 mm θ X, θ Y: $\pm 1.7^{\circ}$	X,Y: ± 0.30 mm θ X, θ Y: $\pm 1.5^{\circ}$	X,Y: ± 0.31 mm θ X, θ Y: $\pm 2.1^{\circ}$	
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 High speed mode: 5 m max. Standard mode: Using FZ-VS4 Using a dedicated product of than FZ-VS4: 10 m max. 	l: 15 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

ltom	Product discontinuation	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			

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ltom	Product discontinuation	Recommendable replacement		
ltem	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 $0 \sim +13$ dB (Analog Gain) FZ-S $0 \sim +20$ dB (Analog Gain)	
Shutter speed	20µs ~ 100,000µs	1µs ~ 100,000µs	20µs ~ 100,000µs	
Lens mounting	C mount (Recommended Mode · 3/4S-LE SV-V Series)			

[Operation ratings]

ltom	Product discontinuation	Recommendable replacement		
Item	Model FH-SC, FH-SM	Model FH-SCX, FH-SMX	Model FZ-SC, FZ-S	
Spectral sensitivity characteristics	FH-SC/SM	<figure></figure>		
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 followin •Vision System User's Manual (Z365)	ng manual.	

•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.