

Surveillance Camera

SANYO DENKI

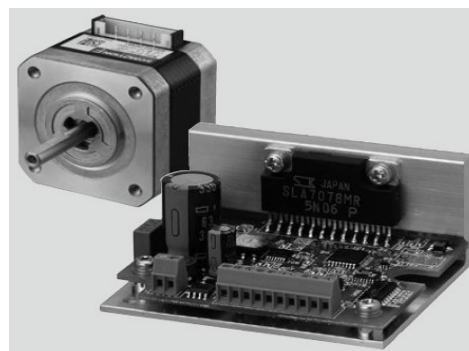
Description

Surveillance cameras are video cameras used for observation.

They are installed in a wide range of places such as convenience stores, banks, elevators, and the ceilings of public areas for security reasons.

Motors are used in the panning and tilting axes of movable surveillance cameras.

Although high speed or high positioning accuracy are not required for surveillance camera, motors that can stop stably are needed to avoid blurred images. Stepping motor is the optimal choice for surveillance camera with its stable stop, low cost, compact and easy-to-use features.



SANYO DENKI Proposal

Axis	Motor	Specifications	Driver
Pan: Horizontal movement	SANMOTION F2 2-Phase Stepping Motor	28 ~ 56 mm sq. 42, 56 mm sq. (thin type)	SANMOTION F2 DC input driver
Tilt: Vertical movement			

Features

■ 2-Phase stepping motor + driver

■ Wide variety of products

Motor sizes range from 14 mm sq. to 106 mm diameter. Thin types that can be used in narrow spaces are also available.

2-Phase 42 mm sq.
(SF242)



Lower noise level & higher torque than conventional products

Thin Type



4 types of motor length
(Thinnest: 11.4 mm)

■ Driver with low-vibration mode function

Smooth driving is possible even with one-division (full step) and two-division (half step) coarse resolution settings with the DC input driver (~ 48 VDC).

2-Phase driver: US1D200P10 (Unipolar)
BSID200P10 (Bipolar)

■ Customizations available

Specifications such as rated current, torque, motor winding can be customized to suit customers' equipment requirements.

Merits

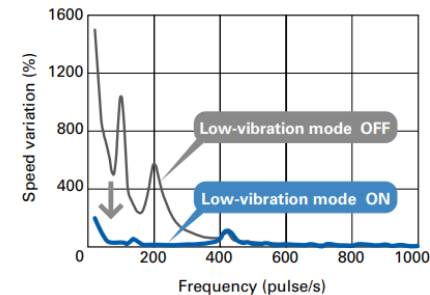
■ Low vibration by motor characteristics

Stepping motors are able to stop stably which eliminates blurred images of camera, as they have "holding power" when the motor is stopped (during power-on).

Customers can switch to 3- or 5-Phase motors, or using 2-Phase 0.9° type motors to reduce vibration during operations.

■ Low vibration by driver characteristics

Using drivers with low-vibration mode function enables smooth driving and lower noise level.



Using micro-step drive with resolution setting up to 16 divisions of the basic step angle 1.8° enables smooth equipment operation with low vibration.

■ Further vibration reduction

Motor vibration and noise level could be further reduced by optimizing winding specifications. Customizations are available to optimize the performance of customers' equipment.