

TAMRON CCTV LENS OWNER'S MANUAL

13FM28IR, 13FM04IR, 13FM06IR, 13FM08IR, 13VM308ASIR, 13VM2811ASIR, 13FG28IR, 13FG04IR, 13FG06IR, 13FG08IR, 13VG308ASIR, 13VG2811ASIR, 13VM1040ASIR, 13VG1040ASIR, 12VM1040ASIR, 12VG1040ASIR, 12VA1040ASIR, 12VM412ASIR, 12VG412ASIR, 12VA412ASIR

Thank you very much for purchasing this CCTV lens.

In order to understand the lens specifications and performances, please read this manual thoroughly.

Also Please handle the lens with care.

MOUNT-TYPE

C or CS mount is equipped with Tamron CCTV lens. Before you use the lens, please make sure that the mount type matches that on your camera.

C MOUNT	CS MOUNT
12VM1040ASIR, 12VG1040ASIR, 12VA1040ASIR, 12VM412ASIR, 12VG412ASIR, 12VA412ASIR	13FM28IR, 13FM04IR, 13FM06IR, 13FM08IR, 13VM308ASIR, 13VM2811ASIR, 13FG28IR, 13FG04IR, 13FG06IR, 13FG08IR, 13VG308ASIR, 13VG2811ASIR, 13VM1040ASIR, 13VG1040ASIR

INSTALLATION ON CAMERA

The lens is installed by screwing it clockwise into the mount on the CCTV camera. Once the lens is screwed in completely to its mechanical stop position, you will then be able to rotate lens chassis back to suit the set-up position of the camera.

IR FUNCTION

The lens is designed to have the same focal point in the IR light range as in the visible light range. Since there is no focus shift in any light condition, the lens is ideal for use with Day/Night cameras. However, as the depth of field in the IR range is very narrow, focus adjustment should be done very carefully. So, when you install the lens with IR illumination, please check your focus setting in both visible light and IR light.

WIRING DIAGRAM

Please read the user's manual for the devices such as the camera and controller before wiring. Then please follow the chart below to insure the right connection.

13VG2811ASIR	13FG28IR, 13FG04IR, 13FG06IR, 13FG08IR, 13VG308ASIR, 13VG1040ASIR, 12VG1040ASIR, 12VG412ASIR	12VA1040ASIR 12VA412ASIR
Cable Yellow — Control (+) Orange — Control (-) Red — Drive (+) Black — Drive (-)	Supplied with 4Pin Square Connector (JEITA) 1 — Control (-) 2 — Control (+) 3 — Drive (+) 4 — Drive (-)	Cable Red — Power Supply Black — GND White — Vs or V signal Shield — GND
When adding plus Voltage to Drive (+). Will move to the opening direction.		Connecting Red (Power Supply) and Black (GND) cables in the other way to the camera by mistake may cause the failure of the lens internal circuit.

IRIS

13FG28IR, 13FG04IR, 13FG06IR, 13FG08IR, 13VG308ASIR, 13VG2811ASIR, 13VG1040ASIR, 12VG1040ASIR, 12VG412ASIR,

If the camera has a selection switch between Video and DC, please set it to DC.

TO INSURE LONG TERM USE

* Please remove dust on the lens by using a blower or soft brush. Avoid touching the lens surface.

* In order to remove finger prints or oil stains on the lens surface, use lens cleaning paper or clean cotton cloth with a little cleaning liquid. Then, wipe off the stains lightly starting from the center of the lens surface. Please wipe the lens body with a silicon cloth. Avoid using any organic solvents such as thinner or benzene.

SPECIFICATION

MODEL	13FM28IR 13FG28IR	13FM04IR 13FG04IR	13FM06IR 13FG06IR	13FM08IR 13FG08IR	13VM308ASIR 13VG308ASIR	13VM2811ASIR 13VG2811ASIR	13VM1040ASIR 13VG1040ASIR	12VM1040ASIR 12VG1040ASIR 12VA1040ASIR	12VM412ASIR 12VG412ASIR 12VA412ASIR
Imager Size	1/3 inch						1/2 inch		
Focal Length	2.8mm	4mm	6mm	8mm	3.0~8mm	2.8~11mm	10~40mm	10~40mm	4~12mm
Aperture Range	MANUAL IRIS	F/1.2~CLOSE			F=1.0~CLOSED	F=1.4~CLOSED	F/1.4~CLOSE	F/1.4~CLOSE	F/1.2~CLOSE
	DC IRIS	F/1.2~360			F/1.0~360	F/1.4~360	F/1.4~360	F/1.4~360	F/1.2~360
Angle of View	Horizontal	93.2°	65.9°	46.5°	34.5°	TELE 36.2° (WIDE 90.3°)	TELE 28.2° (WIDE 97.4°)	TELE 7.0° (WIDE 27.5°)	TELE 9.2° (WIDE 37.5°)
	Vertical	70.7°	49.8°	34.6°	25.7°	TELE 27.0° (WIDE 66.6°)	TELE 17.7° (WIDE 72.4°)	TELE 5.2° (WIDE 20.4°)	TELE 7.0° (WIDE 27.5°)
Mount-Type	CS-Mount						C-Mount		
Dimension (From Mount Surface)	35mm			40mm	55mm	57mm	62mm	54mm	
DC Iris	13FG28IR	13FG0411R	13FG0611R	13FG0811R	13VG308ASIR	13VG2811ASIR	13VG1040ASIR	12VG1040ASIR	12VG412ASIR
Resistance of Drive coil	190Ω ± 10% (20°C)						190Ω ± 10% (20°C)		
Resistance of Control coil	465Ω ± 10% (20°C)			554Ω ± 10% (20°C)	417Ω ± 10% (20°C)	1150Ω ± 10% (20°C)	720Ω ± 10% (20°C)		
Max Voltage	6V						6V		
Auto Iris (VIDEO)	—						12VA1040ASIR	12VA1040ASIR	
Power Supply	—						DC8.5~16V		
Input Signal	—						VS or V Signal		

Specifications are subject to change without notice.



TAMRON PRODUCT SAFETY PRECAUTIONS

These precautionary statements are classified into two levels of danger depending on the content and grade of elements that comprise the product.

	If the user does not obey these instructions and misuses the product, serious injury or loss of life may occur.		If the user does not obey these instructions and misuses the product, serious injury and/or property damage may occur.
Warning !		Caution !	

The following symbols are used in these precautionary statements.

	This symbol warns that an electrical current is present and electric shock may occur.		This symbol means that you should not disassemble the product.
Shock !		Do not !	
	This is a fire hazard symbol that means there is the possibility of igniting fire.		This symbol means that you should pay attention to certain handling procedures.
Fire !		Direction !	

WARNING

Don't disassemble the unit or try to put any foreign substance in it, especially metal of flammable matter. Doing so could cause electric shock and/or fire.		Don't scratch, open, twist or heat the connector cable because doing so may cause fire and/or electric shock.		Don't attempt to use product if you suspect something isn't right as in seeing smoke or detecting a strange smell. If you use the product under these conditions fire and/or electric shock could occur.	
Please keep the unit away from water. If water should get inside the unit, stop using immediately, otherwise electric shock and/or fire may occur.		If the connector cable is cracked or damaged, please exchange it by writing to Tamron with an exchange request. If you continue to use the damaged cable, fire and/or electric shock may result.		Don't look through the lens directly at the sun since this could cause blindness.	
Don't place the unit near extreme heat, flame or gas since combustion may occur resulting in fire.		Don't try to repair the unit or any power source since that may cause fire and/or electric shock.		Keep the product out of the reach of children. If the product fell on a child, injury could occur.	

CAUTION

Don't place the product in locations with extremely high or low temperatures. Don't use the product in areas that are hotter than 60 degrees Centigrade or colder than -10 degrees Centigrade. Such extremes will effect the quality performance of the product and could damage it.		Don't plug in or pull out the cable to or from an electrical outlet with wet hands. This may result in electric shock.		Don't place the product near a stove or humidifier or any place where there is high heat or moisture. Fire and/or electric shock may occur.	
Don't point the lens directly at the sun or other strong light since that could damage the image sensor on the camera and result in poor image quality.		When attaching the lens to the camera body, make sure you grip it securely to avoid the possibility of the lens falling and becoming damaged.		If you going to connect the product with another product, please read the connection instructions from both product manuals carefully before attempting any connection. Otherwise damage may result to one or both products.	
Don't drop or hit the product forcefully. This may cause product performance failure.		When strong the lens, keep it out of direct sunlight. Fire could occur as a result of the light being reflected off the lens onto a flammable substance.		If you going to use a lens that has a tripod mount but are using a camera body that is heavier than the lens, please use the tripod mount on the camera. Failure to do so could result in severe damage to the lens.	
Don't place the connector cable next to a heater since it could melt and cause fire and/or electric shock.		Don't place in dusty and humid place. Fire and/or electric shock may occur.			