

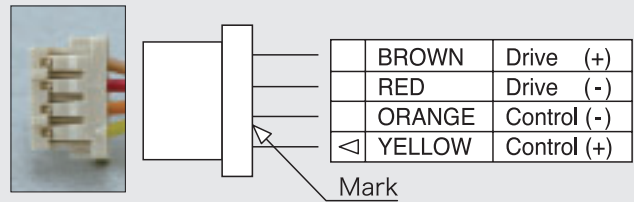


Model No.	THF-3000	THF-4000 *	THE-3000	THE-4000 *
Format (")	1/4	1/4	1/4	1/4
Mount	φ14	φ14	φ14	φ14
Focal Length(mm)	2-4	2-4	3-6	3-6
Aperture(F)	wide	1.4	1.2	1.2
	tele	1.8	1.5	1.5
Angle of view(HOR)*	D	134.5 - 66.8	96.3 - 45.4	96.3 - 45.4
	H	105.1 - 53.2	71.9 - 36.0	71.9 - 36.0
	V	77.4 - 39.8	52.0 - 26.8	52.0 - 26.8
Operating Temperature	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C	-10°C~+50°C
M.O.D.(m)	0.5	0.5	0.5	0.5
Effective Aperture	Front (φmm)	φ18.7	φ13.3	φ13.3
	Rear (φmm)	φ6.8	φ7.4	φ7.4
Dimensions (φxD)(φxHxD)	φ29×38	φ29×34.5×38	φ29×34.5×38	φ29×34.5×38
Weight (g)	26	30	15.5	19.5

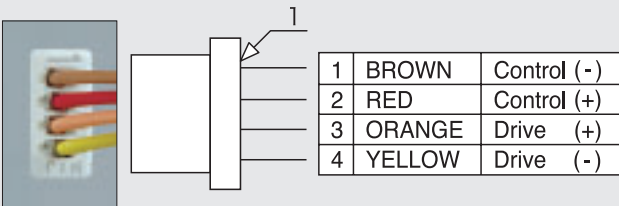
REFERENCE WIRING DIAGRAM

For DC Auto Iris

I.
Hirose : DF13 -4S -1.25C (single socket)



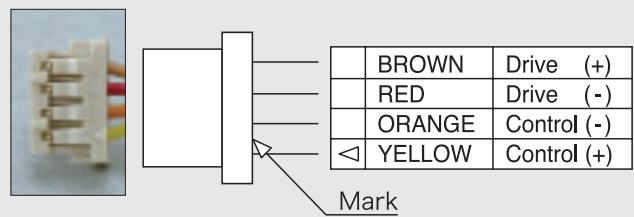
II.
Molex : 51021-0400



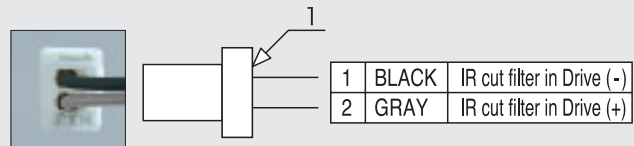
※THK-4000, THF-4000 and THE-4000 have only type I.

For DC Auto Iris + IR Cut Filter

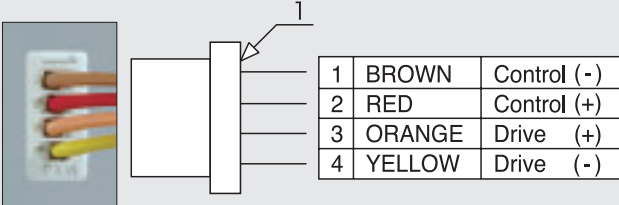
III.
Hirose : DF13 -4S -1.25C (single socket)



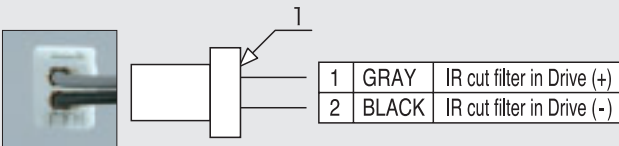
Molex : 51021-0200



IV.
Molex : 51021-0400



Molex : 51021-0200



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SGS/J/E215

JP02/0015/EM

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SGS/J/188/00

JP00/1777QA

2007.10-5400

FEATURE INDICATION

NO IRIS	No Iris	No iris function
DC	DC Auto Iris	Auto iris supporting DC controlled cameras

Function

IR	Day & Night	Lens optimized for both visible and new IR spectrum which eliminates focus shift with Day&Night cameras
IR CUT FILTER	IR Cut Filter	Removable IR Cut Filter

Feature of Vari-Focal

WIDE	Wide Angle Vari-Focal	Vari-focal lens provides a wide field of view
TELE	Telephoto Vari-Focal	Vari-focal lens provides a small field of view or magnified image in long range applications

ANGLE OF VIEW

	No.	Model Name	Format (inch)	Mount	Focal Length(mm)	Zoom Ratio	Aperture(F)		Angle of View (HORIZONTAL) UNIT: (°)		Iris		IR-cut filter removable	Day Night
							wide	tele	1/3"(4.8×3.6mm)	1/4"(3.6×2.7mm)	No Iris	DC		
WIDE	1	T2.4Z2512R	1/3	φ14	2.5-6mm	2.4×	F1.2	F1.8	111.6-47.3	82.2-35.5	○			○
	2	TG2.4Z2512R series	1/3	φ14	2.5-6mm	2.4×	F1.2	F1.8	111.6-47.3	82.2-35.5		○		○
	3	TG2.4Z2512MR series	1/3	φ14	2.5-6mm	2.4×	F1.2	F1.8	111.6-47.3	82.2-35.5			○	○
MID	4	TIV-2000 series	1/3	φ14	3-9mm	3×	F1.2	F2.1	90.0-31.8	66.2-23.9		○		
	5	TIY-2000 series	1/3	φ14	3-9mm	3×	F1.4	F2.4	90.3-31.9	66.4-23.9			○	○
	6	TIY-6000 series	1/3	φ14	3-9mm	3×	F1.4	F2.4	90.3-31.9	66.4-23.9			○	○
	7	T3.6Z3314R	1/3	φ14	3.3-12mm	3.6×	F1.4	F2.9	89.8-23.9	63.6-17.9	○			○
	8	TG3.6Z3314R series	1/3	φ14	3.3-12mm	3.6×	F1.4	F2.9	89.8-23.9	63.6-17.9		○		○
	9	TG3.6Z3314MR series	1/3	φ14	3.3-12mm	3.6×	F1.4	F2.9	89.8-23.9	63.6-17.9			○	○
TELE	10	THK-3000	1/3	φ14	4-9mm	2.3×	F1.6	F2.4	71.0-31.6	51.6-23.6	○			○
	11	THK-4000	1/3	φ14	4-9mm	2.3×	F1.6	F2.4	71.0-31.6	51.6-23.6		○		○
	12	T2.4Z0914R	1/3	φ14	9-22mm	2.4×	F1.4	F1.6	32.1-13.1	23.3-9.8	○			○
	13	TG2.4Z0914R series	1/3	φ14	9-22mm	2.4×	F1.4	F1.6	32.1-13.1	23.3-9.8			○	○
	14	TG2.4Z0914MR series	1/3	φ14	9-22mm	2.4×	F1.4	F1.6	32.1-13.1	23.3-9.8			○	○
	15	T2.8Z1018R	1/3	φ14	10-28mm	2.8×	F1.8	F2.2	27.6-10.0	20.4-7.5	○			○
	16	TG2.8Z1018R series	1/3	φ14	10-28mm	2.8×	F1.8	F2.2	27.6-10.0	20.4-7.5			○	○
	17	TG2.8Z1018MR series	1/3	φ14	10-28mm	2.8×	F1.8	F2.2	27.6-10.0	20.4-7.5			○	○
	No.	Model Name	Format (inch)	Mount	Focal Length(mm)	Zoom Ratio	Aperture(F)		Angle of View (HORIZONTAL) UNIT: (°)		Iris		IR-cut filter removable	Day Night
							wide	tele	1/3"(4.8×3.6mm)	1/4"(3.6×2.7mm)	No Iris	DC		
WIDE	18	THF-3000	1/4	φ14	2-4mm	2×	F1.4	F1.8	-	105.1-53.2	○			
	19	THF-4000	1/4	φ14	2-4mm	2×	F1.4	F1.8	-	105.1-53.2		○		
MID	20	THE-3000	1/4	φ14	3-6mm	2×	F1.2	F1.5	-	71.9-36.0	○			
	21	THE-4000	1/4	φ14	3-6mm	2×	F1.2	F1.5	-	71.9-36.0			○	

NEW

NO IRIS

IR

WIDE

NEW

DC

IR

WIDE

NEW

DC

IR

IR CUT FILTER

WIDE

Model No.	T2.4Z2512R		TG2.4Z2512R series		TG2.4Z2512MR series	
Format (")	1/3		1/3		1/3	
Mount	φ14		φ14		φ14	
Focal Length(mm)	2.5-6		2.5-6		2.5-6	
Aperture(F)	wide	1.2	wide	1.2	wide	1.2
	tele	1.8	tele	1.8	tele	1.8
Angle of view(HOR)°	D	145.5-59.1	D	145.5-59.1	D	145.5-59.1
	H	111.6-47.3	H	111.6-47.3	H	111.6-47.3
	V	82.2-35.5	V	82.2-35.5	V	82.2-35.5
Operating Temperature	-10°C~+50°C		-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	0.5		0.5		0.5	
Effective Aperture	Front (φmm)	φ17.9	Front (φmm)	φ17.9	Front (φmm)	φ17.9
	Rear (φmm)	φ71	Rear (φmm)	φ71	Rear (φmm)	φ71
Dimensions (φ×D)(or(φ×H×D)	φ29.0×35.95		φ29.0×35.1×35.95		φ29.0×35.1×35.95	
Weight (g)	20.7		25.2		27.3	

NO IRIS

IR

DC

IR

Model No.	THK-3000		THK-4000 *	
Format (")	1/3		1/3	
Mount	φ14		φ14	
Focal Length(mm)	4-9		4-9	
Aperture(F)	wide	1.6	wide	1.6
	tele	2.4	tele	2.4
Angle of view(HOR)°	D	92.8 - 39.4	D	92.8 - 39.4
	H	71.0 - 31.6	H	71.0 - 31.6
	V	51.6 - 23.6	V	51.6 - 23.6
Operating Temperature	-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	0.5		0.5	
Effective Aperture	Front (φmm)	φ14.6	Front (φmm)	φ14.6
	Rear (φmm)	φ6.2	Rear (φmm)	φ6.2
Dimensions (φ×D)(or(φ×H×D)	φ29×38		φ29×34.5×38	
Weight (g)	20		24	

DC

DC

IR

DC

IR

IR CUT FILTER

Model No.	TIV-2000 series		TIY-2000 series		TIY-6000 series	
Format (")	1/3		1/3		1/3	
Mount	φ14		φ14		φ14	
Focal Length(mm)	3-9		3-9		3-9	
Aperture(F)	wide	1.2	wide	1.4	wide	1.8
	tele	2.1	tele	2.4	tele	2.4
Angle of view(HOR)°	D	116.2 - 39.7	D	115.4 - 39.8	D	115.4 - 39.8
	H	90.0 - 31.8	H	90.3 - 31.9	H	90.3 - 31.9
	V	66.2 - 23.9	V	66.4 - 23.9	V	66.4 - 23.9
Operating Temperature	-10°C~+50°C		-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	0.5		0.5		0.5	
Effective Aperture	Front (φmm)	φ15.7	Front (φmm)	φ15.7	Front (φmm)	φ15.7
	Rear (φmm)	φ6.5	Rear (φmm)	φ6.4	Rear (φmm)	φ6.4
Dimensions (φ×D)(or(φ×H×D)	φ29.7×37.6×37.8		φ29.7×37.6×37.8		φ29.7×39.8×37.8	
Weight (g)	25		25		27	

NEW

NO IRIS

IR

NEW

DC

IR

NEW

DC

IR

IR CUT FILTER

Model No.	T3.6Z3314R		TG3.6Z3314R series		TG3.6Z3314MR series	
Format (")	1/3		1/3		1/3	
Mount	φ14		φ14		φ14	
Focal Length(mm)	3.3-12		3.3-12		3.3-12	
Aperture(F)	wide	1.4	wide	1.4	wide	1.4
	tele	2.9	tele	2.9	tele	2.9
Angle of view(HOR)°	D	125.7 - 29.9	D	125.7 - 29.9	D	125.7 - 29.9
	H	89.8 - 23.9	H	89.8 - 23.9	H	89.8 - 23.9
	V	63.6 - 17.9	V	63.6 - 17.9	V	63.6 - 17.9
Operating Temperature	-10°C~+50°C		-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	0.5		0.5		0.5	
Effective Aperture	Front (φmm)	φ14.3	Front (φmm)	φ14.3	Front (φmm)	φ14.3
	Rear (φmm)	φ6	Rear (φmm)	φ6	Rear (φmm)	φ6
Dimensions (φ×D)(or(φ×H×D)	φ29.0×38.4		φ29.0×35.1×38.4		φ29.0×35.1×38.4	
Weight (g)	17.5		22		24.1	

NEW

NO IRIS

IR

TELE

NEW

DC

IR

TELE

NEW

DC

IR

IR CUT FILTER

TELE

Model No.	T2.4Z0914R		TG2.4Z0914R series		TG2.4Z0914MR series	
Format (")	1/3		1/3		1/3	
Mount	φ14		φ14		φ14	
Focal Length(mm)	9-22		9-22		9-22	
Aperture(F)	wide	1.4	wide	1.4	wide	1.4
	tele	1.6	tele	1.6	tele	1.6
Angle of view(HOR)°	D	41.9 - 16.3	D	41.9 - 16.3	D	41.9 - 16.3
	H	32.1 - 13.1	H	32.1 - 13.1	H	32.1 - 13.1
	V	23.3 - 9.8	V	23.3 - 9.8	V	23.3 - 9.8
Operating Temperature	-10°C~+50°C		-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	1		1		1	
Effective Aperture	Front (φmm)	φ16.3	Front (φmm)	φ16.3	Front (φmm)	φ16.3
	Rear (φmm)	φ7.2	Rear (φmm)	φ7.2	Rear (φmm)	φ7.2
Dimensions (φ×D)(or(φ×H×D)	φ28.7×40		φ28.7×34.95×40		φ28.7×34.95×40	
Weight (g)	21.5		25.9		28	

NEW

NO IRIS

IR

TELE

NEW

DC

IR

TELE

NEW

DC

IR

IR CUT FILTER

TELE

Model No.	T2.8Z1018R		TG2.8Z1018R series		TG2.8Z1018MR series	
Format (")	1/3		1/3		1/3	
Mount	φ14		φ14		φ14	
Focal Length(mm)	10-28		10-28		10-28	
Aperture(F)	wide	1.8	wide	1.8	wide	1.8
	tele	2.2	tele	2.2	tele	2.2
Angle of view(HOR)°	D	35.1 - 12.4	D	35.1 - 12.4	D	35.1 - 12.4
	H	27.6 - 10.0	H	27.6 - 10.0	H	27.6 - 10.0
	V	20.4 - 7.5	V	20.4 - 7.5	V	20.4 - 7.5
Operating Temperature	-10°C~+50°C		-10°C~+50°C		-10°C~+50°C	
M.O.D.(m)	1		1		1	
Effective Aperture	Front (φmm)	φ13.2	Front (φmm)	φ13.2	Front (φmm)	φ13.2
	Rear (φmm)	φ6.3	Rear (φmm)	φ6.3	Rear (φmm)	φ6.3
Dimensions (φ×D)(or(φ×H×D)	φ28.7×40		φ28.7×34.95×40		φ28.7×34.95×40	
Weight (g)	19.4					