

SUPER-MOTORIZED ZOOM LENS

TM55Z1038AIPNX2 f=10-550mm F3.8 VIDEO IRIS W/Preset, Internal 2x extender

SPECIFICATION

MODEL NUMBER		TM55Z1038AI	
Internal 2x extender		Not working	Working
IMAGE FORMAT		1/2inch (1/3inch)	
FOCAL LENGTH		10-550mm	20-1100mm
MAXIMUM APERTURE		F1:3.8-6.1	F1:7.6-12.2
APERTURE RATIO		F1:3.8-360	F1:7.6-720
M.O.D.		5.0m	
ANGLE OF VIEW 1/2inch	DIMENSION	W42.66°T0.86°	W21.99°T0.43°
	HORIZONTAL	W34.57°T0.69°	W17.67°T0.34°
	VERTICAL	W26.33°T0.52°	W13.30°T0.26°
ANGLE OF VIEW 1/3inch	DIMENSION	W32.63°T0.64°	W16.58°T0.32°
	HORIZONTAL	W26.33°T0.52°	W13.30°T0.26°
	VERTICAL	W19.83°T0.39°	W9.99°T0.19°
FILTER SIZE		M95.0mm	P=1.0
DIMENSIONS		W132.0×H120.5×L298.5mm	
WEIGHT		4.07kg	
OPERATING TEMPERATURE RANGE		-20°C - 60°C	
OPERATING HUMIDITY RANGE		65% - 93%	
MOUNT		C	

AUTO IRIS

INPUT VOLTAGE	DC+8-16V
CURRENT CONSUMPTION	30mA OR LESS
INPUT SIGNAL	VS OR V SIGNAL
IRIS ACCURACY	±15% AT VIDEO SIGNAL LEVEL
SENSITIVITY	0.5-1.0Vp-p AT VIDEO SIGNAL LEVEL
RESPONSE SPEED	APPROX. 4 SECONDS

#1 Detail of remote control of iris level is referred on next page.

FOCUS

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	40mA OR LESS
MOTORIZATION SPEED	APPROX. 9 SECONDS (6V)

ZOOM

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	50mA OR LESS
MOTORIZATION SPEED	APPROX. 5 SECONDS (6V)

2X EXTENDER

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	30mA OR LESS
MOTORIZATION SPEED	APPROX. 3 SECONDS (6V)

Cable

○ FOCUS/ZOOM

FOCUS	color	pololity	Direction
	black	+	Inf.
	red	-	Near
	black	-	
ZOOM	red	+	wide
	color	pololity	
	green	+	
	white	-	tele
	green	-	
	white	+	

○ X2 extender

X2 extender	color	pololity	IN OR OUT
	white/red	+	EXT IN
	right green	-	
	white/red	-	
	right green	+	EXT OUT

POTENTIO METER-PRESET

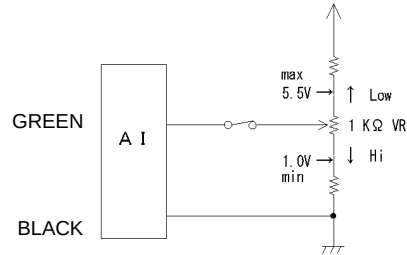
CABLE COLOR	CONNECTION
PURPLE	POT.RETURN
GRAY	ZOOM POT.WIPER
ORANGE	POT.SUPPLY
BLUE	FOCUS POT.WIPER

#2 Detail of preset wiring is referred on next page.

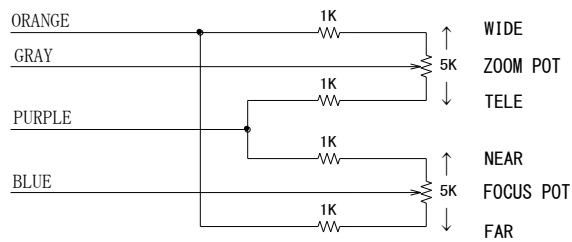
DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

TM55Z1038AIPN f=10-550mm F3.8 VIDEO IRIS W/Preset,internal 2x extender

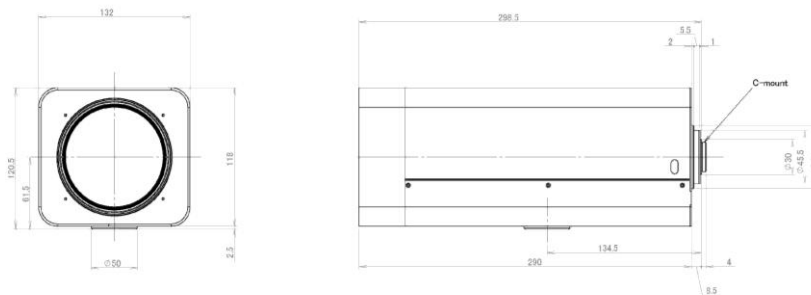
#1 Detail of remote control of iris level on video iris cable



#2 Detail of preset wiring on focus / zoom / preset cable



APPEARANCE



21X47132

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

TM55Z1038A1x2

f=10-550mm(20-1100mm) F3.8 Video Auto Iris with Int. 2x Extender

SPECIFICATIONS

MODEL NUMBER		TM55Z1038A1x2	
INTERNAL 2x EXTENDER		Without Extender	With Extender
IMAGE FORMAT		1/2inch	
MOUNT		C	
FOCAL LENGTH		10-550mm	20-1100mm
MAXIMUM APERTURE		F1 : 3.8	F1 : 7.6
APERTURE RANGE		F1:3.8-360	F1:7.6-720
M.O.D.		5.0m	
ANGLE OF VIEW	HORIZONTAL	W34.57° - T0.69°	W17.67° - T0.34°
	VERTICAL	W26.33° - T0.52°	W13.30° - T0.26°
FILTER SIZE		M95.0mm P=1.0	
BACK FOCAL LENGTH		47.37mm	
DIMENSIONS		W132.0 × H120.5 × L298.5mm	
WEIGHT		4.07kg	
OPERATING TEMPERATURE		-10°C ~ +50°C	
OPERATING HUMIDITY		RH90% at 40°C	

Electrical

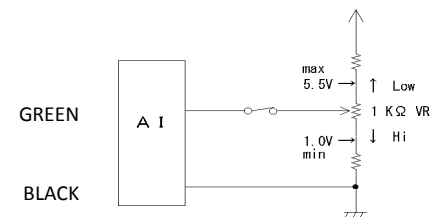
VIDEO AUTO IRIS	INPUT VOLTAGE	DC+8V ~ +16V
	CURRENT CONSUMPTION	Less than 30mA
	INPUT SIGNAL	VS or V Signal
	IRIS ACCURACY	±15% (Video Signal Level)
	SENSITIVITY	0.5~1.0Vp-p (Video Signal)
	RESPONSE SPEED	Approx. 4 Seconds
FOCUS	LEVEL REMOTE CONTROL	1.0V~5.5V (See #1 in Right)
	INPUT VOLTAGE	DC+6 ~ +12V
	CURRENT CONSUMPTION	Less than 40mA
ZOOM	MOTORIZATION SPEED	Approx. 13 Sec. (6V)
	INPUT VOLTAGE	DC+6 ~ +12V
	CURRENT CONSUMPTION	Less than 50mA
2x EXT.	MOTORIZATION SPEED	Approx. 8 Sec. (6V)
	INPUT VOLTAGE	DC+6 ~ +12V
	CURRENT CONSUMPTION	Less than 40mA
2x EXT.	MOTORIZATION SPEED	Approx. 3 Sec. (6V)

CABLE CONNECTIONS

VIDEO AUTO IRIS (4-wires shield cable)

CABLE COLOR	CONNECTION
Red	Power (DC8V-16V)
White	VS or V Signal
Green	Level Remote (See #1 in below)
Black	GND

#1: Detail of iris level remote control on iris cable



FOCUS

CABLE COLOR	POLARITY	DIRECTION
Black	+ (-)	Inf. (Near)
Red	- (+)	

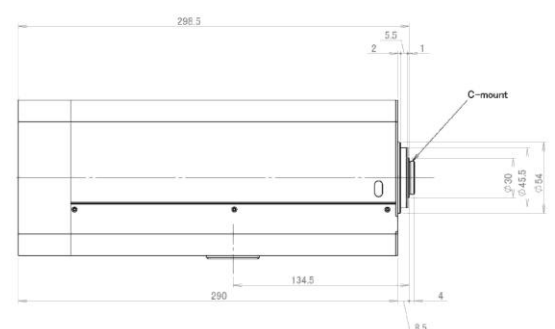
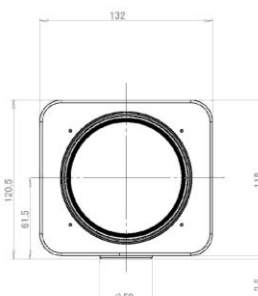
ZOOM

CABLE COLOR	POLARITY	DIRECTION
Green	+ (-)	Wide (Tele)
White	- (+)	

2X EXTENDER

CABLE COLOR	POLARITY	DIRECTION
White/Red Stripe	+ (-)	Ext. In (Out)
Light Green	- (+)	

APPEARANCE



TM55Z1038 GAIDCPN-VC

f=10-550mm F/3.8 1/2inch Format

● SPECIFICATIONS

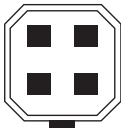
MODEL NUMBER		TM55Z1038 GAIDCPN-VC
IMAGE FORMAT		1/2 inch
FOCAL LENGTH		10- 550 mm
MAXIMUM APERTURE		F1: 3.8
APERTURE RANGE		F3.8-360
M.O.D.		5.0 m
ANGLE OF VIEW (at 1/2inch)	HORIZONTAL	34.57° ~ 0.69°
	VERTICAL	26.33° ~ 0.52°
FILTER SIZE		M95mm P=1.0
DIMENSIONS		W132 xH120.5 xL298.5 mm
WEIGHT		4.1kg
OPERATING TEMPERATURE		-10℃ ~ +50℃
MOUNT		C-mount
DC- IRIS		AUTO-IRIS
FOCUS		
	INPUT VOLTAGE	DC +6V to +12V
	CURRENT CONSUMPTION	40mA or Less
ZOOM		
	INPUT VOLTAGE	DC +6V to +12V
	CURRENT CONSUMPTION	50mA or Less
DC- IRIS		
PIN NO.	CABLE COLOR	CONNECTION
1	RED	DAMPING COIL -
2	BLACK	DAMPING COIL +
3	WHITE	DRIVING COIL +
4	GREEN	DRIVING COIL -

4

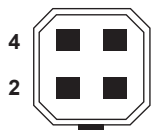
3

2

1

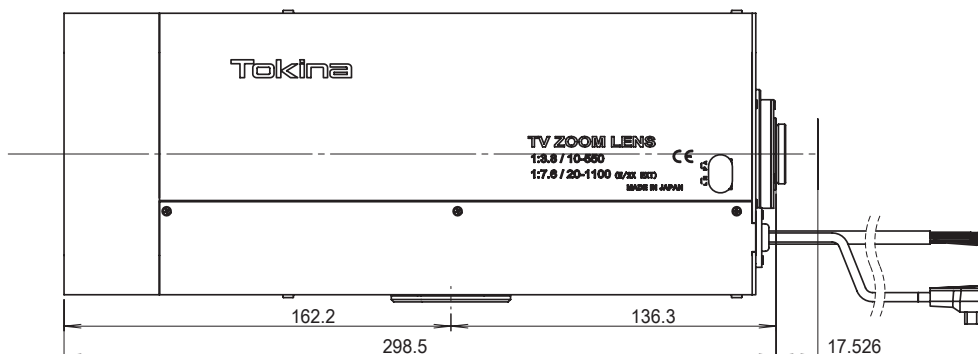
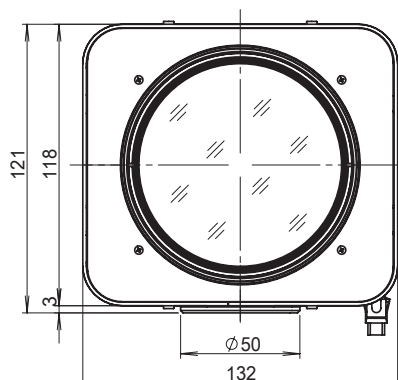


4PIN CONNECTOR



4PIN CONNECTOR

● DIMENSIONS



Unit: mm

● CABLE CONNECTIONS

FOCUS

CABLE COLOR	POLARITY	DIRECTION
BLACK	+	Far
RED	-	
BLACK	-	Near
RED	+	

ZOOM

CABLE COLOR	POLARITY	DIRECTION
GREEN	+	Wide
WHITE	-	
GREEN	-	Tele
WHITE	+	

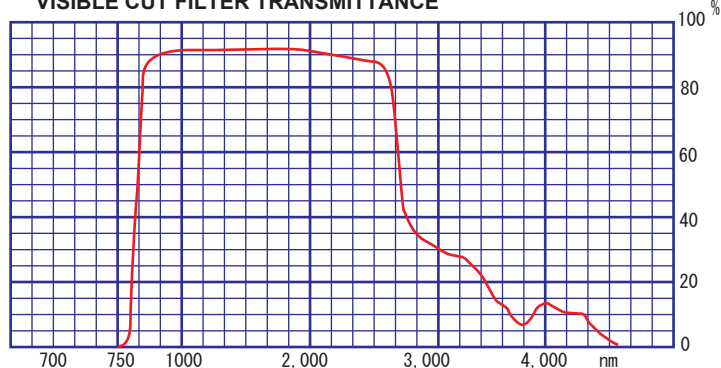
POTENTIOMETER

CABLE COLOR	POLARITY	DIRECTION
ORANGE	+	POT POWER
GRAY		ZOOM WIPER
PURPLE	-	POT COM.
BLUE		FOCUS WIPER

VISIBLE CUT FILTER

CABLE COLOR	POLARITY	DIRECTION
WHITE/RED	+	IN
Light-Green		
Light-Green	-	OUT
WHITE/RED		

VISIBLE CUT FILTER TRANSMITTANCE



TM55Z1038GAIDCPNx2

f=10-550mm F/3.8 DC X2 Preset

SPECIFICATIONS

MODEL NUMBER	TM55Z1038GAIDCPNx2		
IMAGE FORMAT	1/2inch		
FOCAL LENGTH	10-550mm / 20-1100mm		
MAXIMUM APERTURE	F1:3.8		
APERTURE RANGE	F3.8-360 / 7.6-720		
M.O.D.	5.0m		
ANGLE OF VIEW (at 1/2inch)	WIDE	34.68° - 26.33°	17.67° - 13.30°
	TELE	0.69° - 0.52°	0.34° - 0.26°
FILTER SIZE	M95mm P=1.0		
DIMENSIONS	132.0x121.0x298.5mm		
WEIGHT	4070g		
OPERATING TEMPERATURE	-10°C - +50°C		
MOUNT	C-mount		
IRIS	DC-IRIS		
FOCUS	INPUT VOLTAGE	DC +6V to +12V	
	CURRENT CONSUMPTION	40mA or Less	
ZOOM	INPUT VOLTAGE	DC +6V to +12V	
	CURRENT CONSUMPTION	40mA or Less	

X2 EXTENDER

CABLE COLOR	POLARITY	DIRECTION
WHITE/RED	+	EXT IN
LIGHT GREEN	-	
WHITE/RED	-	EXT OUT
LIGHT GREEN	+	

CABLE CONNECTIONS

DC- IRIS

CABLE COLOR	CONNECTION
RED	Damping Coil -
BLACK	Damping Coil +
WHITE	Driving Coil +
GREEN	Driving Coil -

FOCUS

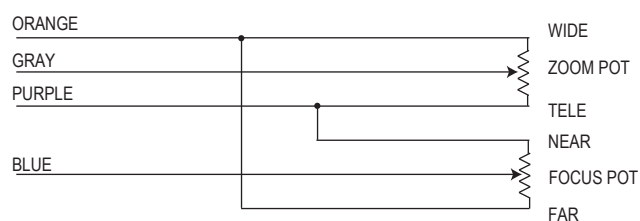
CABLE COLOR	POLARITY	DIRECTION
BLACK	+	Far
RED	-	
BLACK	-	Near
RED	+	

ZOOM

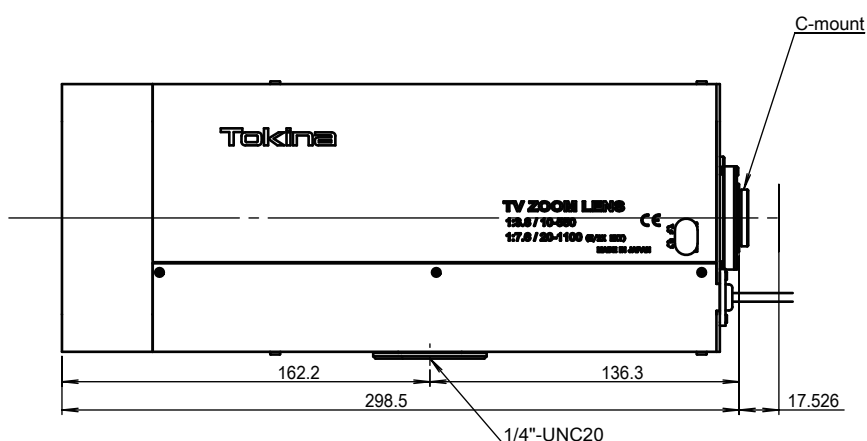
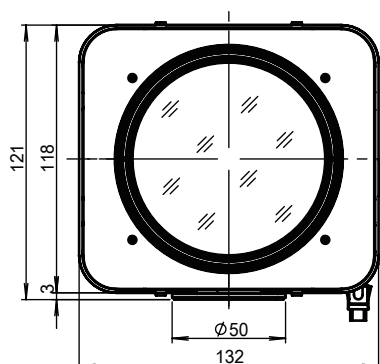
CABLE COLOR	POLARITY	DIRECTION
GREEN	+	Wide
WHITE	-	
GREEN	-	Tele
WHITE	+	

POTENTIOMETER

CABLE COLOR	CONNECTION
ORANGE	POTENTIO METER SUPPLY +
GRAY	POTENTIO METER ZOOM WIPER
PURPLE	POTENTIO METER RETURN -
BLUE	POTENTIO METER FOCUS WIPER



DIMENSIONS





MOTORIZED ZOOM LENS

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TM55Z1038NPN3X2 f=10-550mm F3.8 3-Motor FOCUS·ZOOM·IRIS W/Preset, 2x extender

SPECIFICATION

MODEL NUMBER		TM55Z1038NPN3X2	
Internal 2x extender		Not working	Working
IMAGE FORMAT		1/2inch (1/3inch)	
FOCAL LENGTH		10-550mm	20-1100mm
MAXIMUM APERTURE		F1:3.8-6.1	F1:7.6-12.2
APERTURE RATIO		F1:3.8-360	F1:7.6-720
M.O.D.		5.0m	
ANGLE OF VIEW 1/2inch	DIMENSION	W42.66°T0.86°	W21.99°T0.43°
	HORIZONTAL	W34.57°T0.69°	W17.67°T0.34°
	VERTICAL	W26.33°T0.52°	W13.30°T0.26°
ANGLE OF VIEW 1/3inch	DIMENSION	W32.63°T0.64°	W16.58°T0.32°
	HORIZONTAL	W26.33°T0.52°	W13.30°T0.26°
	VERTICAL	W19.83°T0.39°	W9.99°T0.19°
FILTER SIZE		M95.0mm	P=1.0
DIMENSIONS		W132.0×H120.5×L298.5mm	
WEIGHT		4.07kg	
OPERATING TEMPERATURE RANGE		-10°C - 50°C	
OPERATING HUMIDITY RANGE		RH 90% at 40°C	
MOUNT		C	

IRIS

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	30mA OR LESS
INPUT SIGNAL	VS OR V SIGNAL
MOTORIZATION SPEED	APPROX.6 SECONDS (6V)

FOCUS

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	40mA OR LESS
MOTORIZATION SPEED	APPROX. 13 SECONDS (6V)

ZOOM

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	50mA OR LESS
MOTORIZATION SPEED	APPROX. 8 SECONDS (6V)

2X EXTENDER

INPUT VOLTAGE	DC+6-12V
CURRENT CONSUMPTION	40mA OR LESS
MOTORIZATION SPEED	APPROX. 3 SECONDS (6V)

DRIVING CABLE

CABLE COLOR				
RED	+	FOCUS NEAR	-	FOCUS FAR
BLACK	-		+	
WHITE	+	ZOOM TELE	-	ZOOM WIDE
GREEN	-		+	
YELLOW	+	IRIS OPEN	-	IRIS CLOSE
BLAWN	-		+	

2X EXTENDER CABLE

WHITE/RED stripe	+	EXT IN	-	EXT OUT
LIGHT GREEN	-		+	

Detail of preset wiring is referred on next page.

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Tokina

MOTORIZED ZOOM LENS

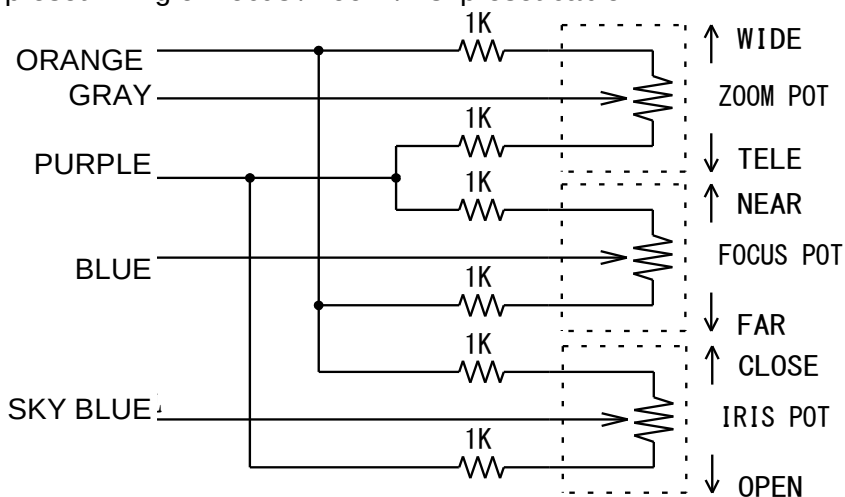
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TM55Z1038NPN3X2 f=10-550mm F3.8 3-Motor FOCUS·ZOOM·IRIS W/Preset, 2x extender

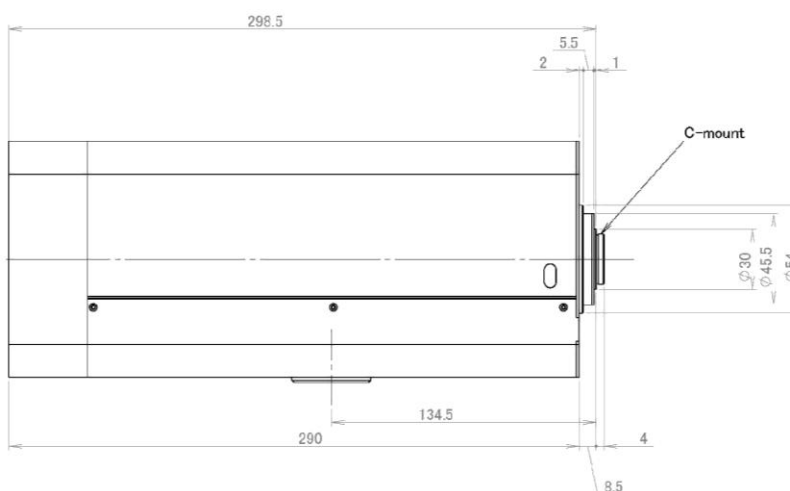
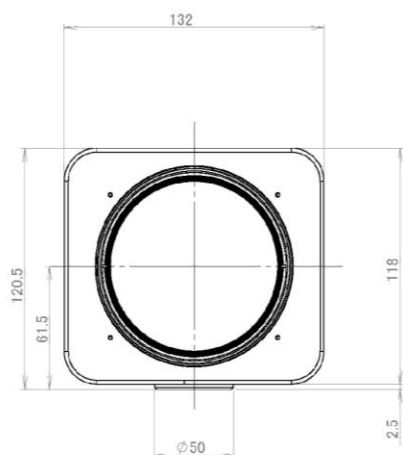
POTENTIO METER-PRESET

CABLE COLOR	CONNECTION	POTENTIO RESISTANCE
ORANGE	POT.SUPPLY	Zoom/Focus
PURPLE	POT.RETURN	5K Ω ($\pm$ 5%)1W
BLUE	FOCUS POT.WIPER	IRIS 5K Ω ($\pm$ 20%)0.125W
GRAY	ZOOM POT.WIPER	
SKY BLUE	IRIS POT.WIPER	

Detail of preset wiring on focus / zoom /Iris preset cable



APPEARANCE



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