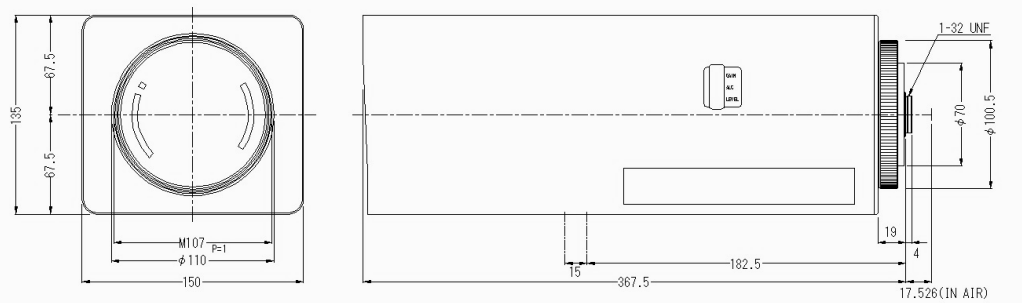# MMC62Z1235AMSP-MP12

62X 12.5-775mm F3.5 for 1/2 type Cameras, Motorized Zoom
C-Mount, Megapixel Preset (Focus & Zoom)   with Video Auto Iris

Model No.		H62Z1235AMSP-MP12	Effective	Front	φ98.5mm
Focal Length		12.5mm - 775mm	Lens Aperture	Rear	φ17.5mm
Max. Aperture Ratio		1:3.5	Back Focal Length		42.29mm
Max. Image Format		6.4mm x 4.8mm(φ8mm)	Flange Back Length		17.53mm
Operation Range	Iris	F3.5 - Close	Mount		C-Mount
	Focus	5.0m - lnf.	Filter Size		M107 P=1.0mm
	Zoom	12.5mm - 775mm	Tripod Screw		1/4 -20UNC X 2
Control	Iris	Video Auto Iris	Dimensions		W150mm x H135mm x D367.5mm
	Focus	Motorized	Weight		5500g
	Zoom	Motorized			
Object Dimension at M.O.D.	12.5mm	245.4cm X 184.2cm			
	775mm	3.94cm X 2.96cm			

Angle of View	D	1/2 type	35.47°-0.58°	1/3 type	27.06°- 0.44°	1/4 type	20.44°- 0.33°
	H		28.77°-0.47°		21.78°- 0.35°		16.41°- 0.26°
	V		21.78°-0.35°		16.41°- 0.26°		12.34°- 0.20°

|	Iris	Focus	Zoom
Supply Voltage	DC8.5-16V	DC6-12V	DC6-12V
Current	30mA or less	60mA or less	60mA or less
Response Time	-	Approx. 7.5 sec. (when 10V input)	Approx. 8.5 sec. (when 10V input)
Preset Potentiometer	-	10KΩVR	10KΩVR
Light Weighting method	Adjustable between Average – Peak		
Input Signal	Video Signal (V or VS)		
Iris Accuracy	±15% at Video Signal Level		
Sensitivity Adjustment	0.4V(p-p) - 1.0V (p-p) (Video Signal)		
Input Impedance	High Impedance		
Operating Temperature	-10℃ - +50℃		
BRM (Boresight Retention Module)	Yes		
Serial Control Card	Yes		

Dimensions

Wiring Diagram
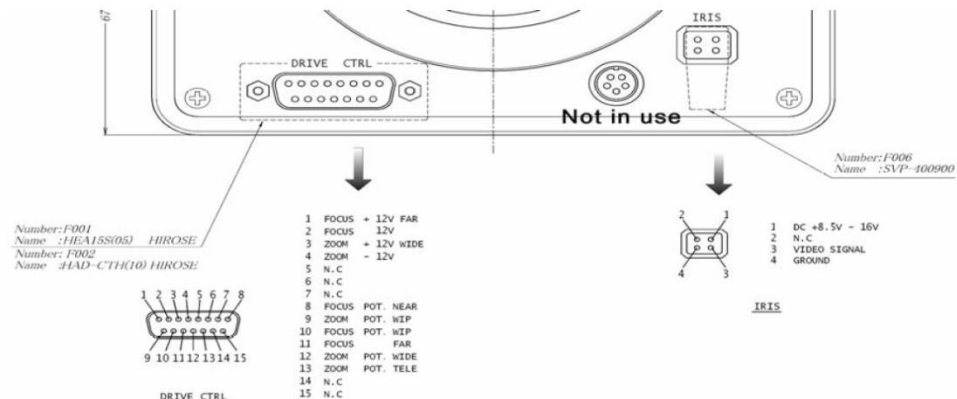
Serial Control Card

All industry standard motorized Zoom lens systems can be controlled with a fully integrated control system from a computer via serial control. These lenses allow control of zoom, focus, iris and provide position feedback via potentiometers, also called presets. Lens control card can control up to 6 axes of motion, with read back of the position i.e. Zoom, Focus and Iris control via serial RS-232/ RS-422. Software includes Windows Graphical User Interface "GUI" for simple axis control. Card is interfaced to the lens via one 15-pin high density d-sub connector. Protocols are made available for platform assimilation.

In case, user decides not to use the auto iris, the lens wiring would be modified and mapped to control connector. Lens control card already has the ability to drive the iris. It's also incorporated   in   GUI.

| Control Connector DB 15	
Pin No.	Signal type & Signal Name
1	+ 12 VDC Focus Far
2	-12 VDC Focus
3	+12 VDC Zoom Wide
4	-12 VDC Zoom
5	NC
6	NC
7	NC
8	Focus POT. (-)
9	Zoom POT. WIP
10	Focus POT. WIP
11	Focus POT. (+)
12	Zoom POT. (+)
13	Zoom POT. (-)
14	NC
15	NC

Mechanical Dimensions

60.100 mm

41.200 mm
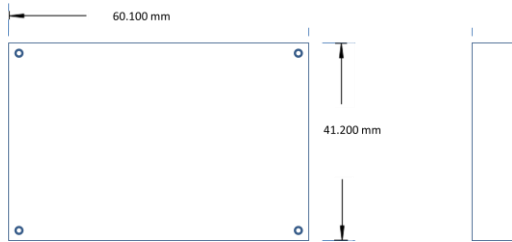
Features
Zoom, Focus and Iris motor control
Step size control (motor speed)
Control via RS 232 or 422 (optional)
12 Volts, 3.5 W (max.)
GUI for lens control

Connection Diagram

Lens Controller

Control / Power

Power
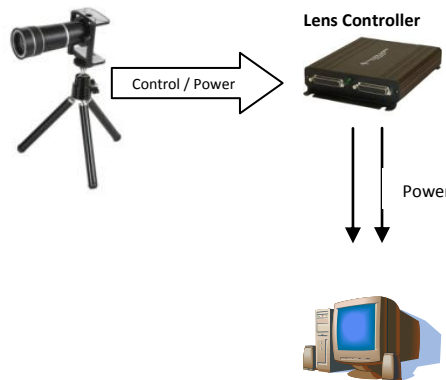
RS 232 protocol
Baud rate: 19200
Parity bit: N
Data bits: 8
Stop bits: 1

Boresight Retention Module Specifications (BRM)

BORESIGHT RETENTION MODULE (BRM) is meant to provide accurate bore sight retention during optical zooming from Narrow to wide FOV or vice versa. The BRM converts the c-mount of the lens to cs-mount, therefore camera must be cs-mount.

Lens side: C- mount.
Camera side: CS – mount.
Three (03) retention adjustment screws.

Bore Sight Alignment Screws Three/Four Screw Type

Frame

Cover - Note:- Shouldn't to be removed

MESA Microwave Corporation │1/2" C Mount 12.5-775mm 62X Megapixel Auto Iris Zoom Lens w/ Preset, Serial Control Card & BRM

2