

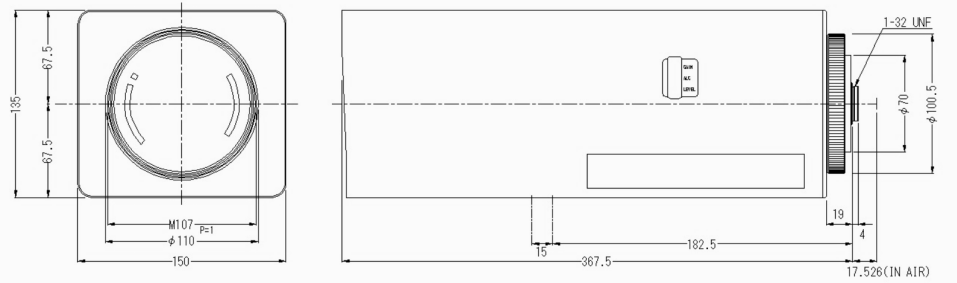
## MMCMZCMPFZ-12

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

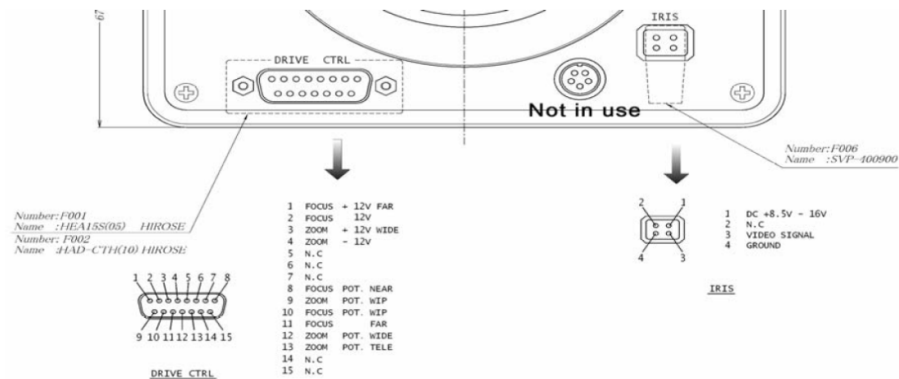
with Video Auto Iris

Model No.	MMCMZCMPFZ-12		Effective Lens Aperture	Front	ø98.5mm		
Focal Length	12.5mm - 775mm		Rear	ø17.5mm			
Max. Aperture Ratio	1:3.5		Back Focal Length	42.29mm			
Max. Image Format	6.4mm x 4.8mm(ø8mm)		Flange Back Length	17.53mm			
Operation Range	Iris	F3.5 - Close	Mount	C-Mount			
	Focus	5.0m - Inf.	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°C - +50°C						
BRM (Boresight Retention Module)	Yes						
Serial Control Card	Yes						

### Dimensions



### Wiring Diagram



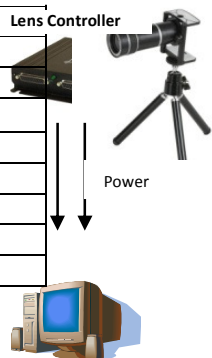
## Serial Control Card

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.

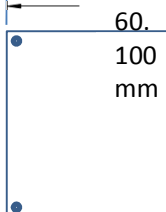
*\*In case, user decides not to use the auto iris, the lens wiring would be modified and mapped to control connector. Lens control card already has the ability to drive the iris. It's also incorporated in GUI.*

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. (-)	Control / Focus
9	Zoom POT. (-)	
10	Focus POT. WIP	
11	Focus POT. (+)	
12	Zoom POT. (+)	
13	Zoom POT. (-)	
14	NC	
15	NC	

### Connection Diagram



### Mechanical Dimensions



#### 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

#### 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.

