

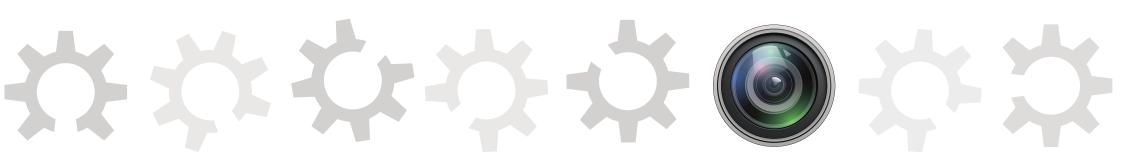


Build your vision, Capture everyone's imagination





ArduCAM is a startup company dedicated to open source hardware and software, designed and manufacured in China specifically for Arduino and Raspberry Pi camera solutions. We also offer customized turnkey design and manufacturing solution services for customers who want their products to be unique.

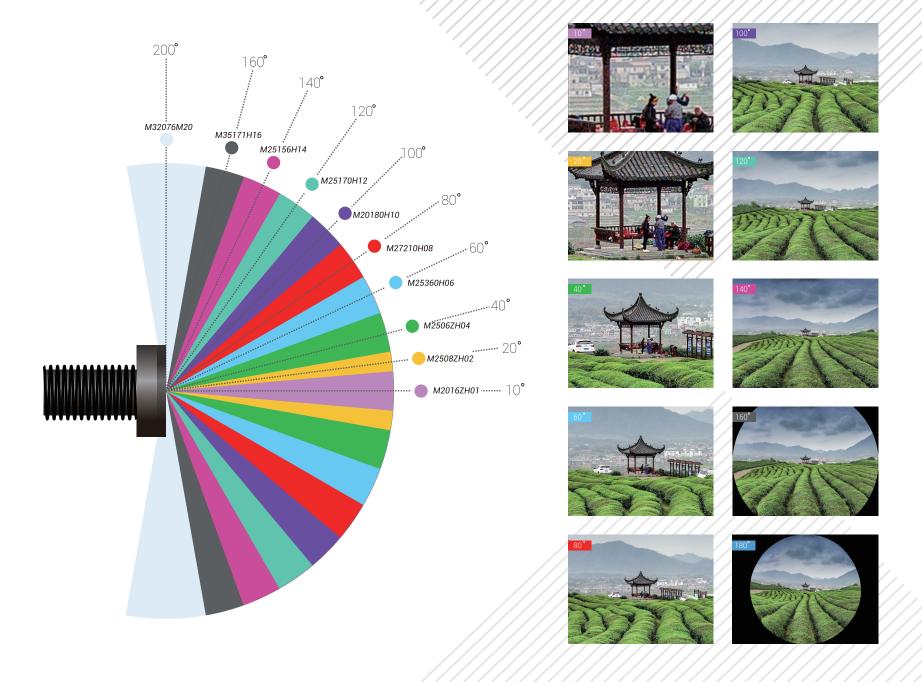


GUIDELINES

- Choose a suitable lens holder as follows:
 - a) Determine the lens holder height listed in the lens specifications for your selected lens. If you use a different lens holder height, you might not be able to focus the lens at all.
 - b) Ensure that the lens holder matches the screw hole pitch of your camera board. Lens holders are available with 18mm and 20mm pitches.
- If required, the thread gap between the lens and lens holder can be filled with damping grease or similar glue in order to fix the lens in position after focusing.
- Specks of dust or tiny bubblers might be visible on the image while focusing the lens. These will disappear when the lens is in focus, and will not affect image quality.
- When focusing or replacing a lens, do not screw the lens into the lens holder too deep, otherwise the lens might touch and damage the image sensor. Often, focusing a lens is performed while monitoring the image quality on a video screen. A blurry image will result if the lens is screwed in either too deep or too shallow from where it is in focus.

LENS PARAMETERS

	M2016ZH01	M2508ZH02	M2506ZH04	M25360H06	M27210H08	M20180H10	M25170H12	M25156H14	M35171H16	M32076M20
Optical Format	1/2.5"	1/2.5"	1/2.5"	1/2.5"	1/2.7"	1/4"	1/2.5"	1/2.5"	1/3"	1/3.2"
EFL(mm)	16	8	6	3.6	2.1	1.8	1.7	1.56	1.71	0.76
35mm Equivalent FL on Arduino or Raspberry Pi Carnera	173.0	86.5	64.9	38.9	22.7	19.5	18.4	16.9	18.5	8.2
BFL(mm)	7.1	8.1	7.3	5	6.3	4.9	4.7	4.3	4.71	2
F/NO	2.0	2.0	2.0	2.0	2.0	2.4	2.0	2.0	2.2	2.1
FOV (D/H/V)	29/23/17	50/40/30	67/53/41	156/114/80	170/120/80	125/100/75	180/180/140	185/185/140	184/184/104	222/222/222
Construction	6G+ IR	6G+ IR	6G+IR	6G+ IR	6G+ IR	6G+ IR	6G+ IR	6G+ IR	5G+IR	2G4P+ IR
IR filter		and and vary part has had			650 IR filter	Something the control of the control	Park (as and	************		
Mount	***************			*************	M12	**********	***********			
Working Wavelength	****				400-700nm					
MOD	0.3m	0.3m	0.3m	0.2m	0.3m	0.2m	0.2m	0.2m	0.2m	0.2m
Size(mm)	14 x 16.2	14 x 16.9	14 x 17.4	14 x 16.8	14 x 15.2	14 x 14.5	20 x 18.7	20 x 17.3	15 x 19.7	16 x 13.5
Weight	5g	7 g	5g	6g	5g	7 g	8g	7 g	7 g	59



13mm

650 IR filter

M12

Ardu@am®

Model No:M2016ZH01



Model No:M2016ZH01

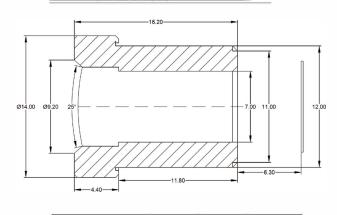
LENS SPECIFICATIONS

Optical Format	1/2.5"
EFL(mm)	16
35mm EFL *	173
BFL(mm)	7.1
Construction	6G+IR
F/NO	2
FOV (D/H/V) @ 1/2.5"	29/23/17

*	35mm Equivalent	Focal Length for	1/4" Arduir	no or RPI Camera
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Working Wavelength 400-700nm MOD 0.3m Size(mm) 14 x 16.2 Weight 5g HFOV on 1/4" RPi Cam 10°

MECHANICAL DRAWING



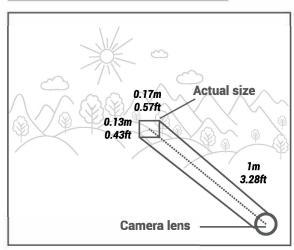
Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tole	±2°		

REFERENCE DIAGRAM

Lens Holder Height

IR filter

Mount







Model No:M2508ZH02

LENS SPECIFICATIONS

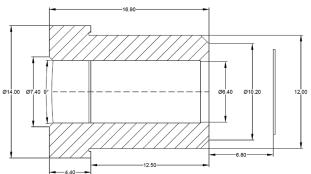
Optical Format	1/2.5"
EFL(mm)	8
35mm EFL *	86.5
BFL(mm)	8.1
Construction	6G+ IR
F/NO	2
FOV (D/H/V) @ 1/2.5"	50/40/30

★ 35mm Equivalent Focal Length for 1/4" Arduino or RPI Cam	*	35mm	Equivalent	Focal	Length	for 1	1/4"	Arduino	or RPI	Camera	1
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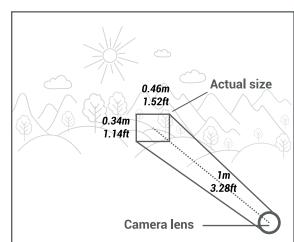
Lens Holder Height 13mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.3m Size(mm) 14 x 16.9 Weight 7g HFOV on 1/4" RPi Cam 26°

ECHANICAL DRAWING

MECHANICAL DRAWING



Size tolerance (mm)	0-10±0.05 10-30±0.10	30-120±0.20
Angle tole	±2°	





Model No:M2508ZH02



13mm

650 IR filter

M12

Ardu@am®

Model No:M2506ZH04



Model No:M2506ZH04

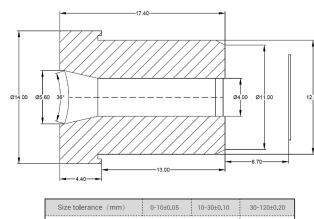
LENS SPECIFICATIONS

Optical Format	1/2.5"		
EFL(mm)	6		
35mm EFL *	64.9		
BFL(mm)	7.3		
Construction	6G+IR		
F/NO	2		
FOV (D/H/V) @ 1/2.5"	67/53/41		

★ 35mm Equivalent Focal Length for 1/4" Arduino or RPI 0	Camera
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Working Wavelength 400-700nm MOD 0.3m Size(mm) 14x 17.4 Weight 5g HFOV on 1/4" RPi Cam 33°

MECHANICAL DRAWING



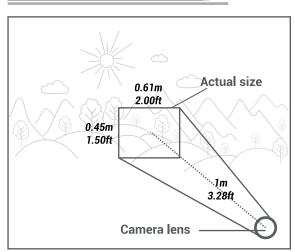
Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tole	±2°		

REFERENCE DIAGRAM

Lens Holder Height

IR filter

Mount







Model No:M25360H06

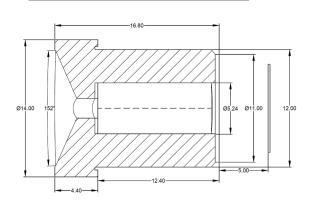
LENS SPECIFICATIONS

Optical Format	1/2.5"
EFL(mm)	3.6
35mm EFL *	38.9
BFL(mm)	5
Construction	6G+ IR
F/NO	2
FOV (D/H/V) @ 1/2.5"	156/114/80

*	35mm	Equivalent	Focal	Length	for	1/4"	Arduino	or RPI	Camera

MECHANICAL DRAWING

Lens Holder Height 13mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.2m Size(mm) 14 x 16.8 Weight 6g HFOV on 1/4" RPi Cam 67°



Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tolerance		±2°	

	1.13m Actual size 4.36ft
0.99m 3.27ft	
`	3.28ft Camera lens



Model No:M25360H06



Ardu@am®

Model No:M27210H08



Model No:M27210H08

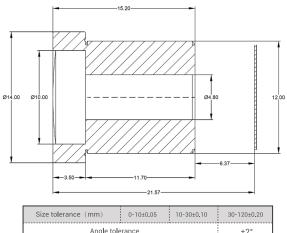
LENS SPECIFICATIONS

MECHANICAL DRAWING

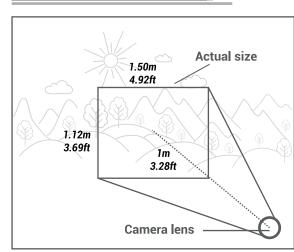
Optical Format	1/2.7"
EFL(mm)	2.1
35mm EFL *	22.7
BFL(mm)	6.3
Construction	6G+IR
F/NO	2
FOV (D/H/V) @ 1/2.7"	170/120/80

★ 35mm Equivalent Focal Length for 1/4" Arduino or RPI C	:amera
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Lens Holder Height 13mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.3m Size(mm) 14 x 15.2 Weight 5g HFOV on 1/4" RPi Cam 73°



Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tole	rance		±2°





Ardu@am[®] Model No:M40180H10

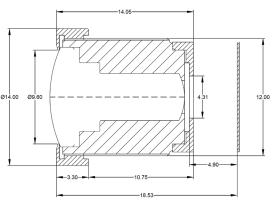
LENS SPECIFICATIONS

Optical Format	1/4"
EFL(mm)	1.8
35mm EFL *	19.5
BFL(mm)	4.9
Construction	6G+ IR
F/NO	2.4
FOV (D/H/V) @ 1/4"	125/100/75

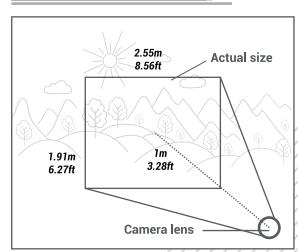
★ 35mm Equivalent Focal Length for 1/4" Arduino or RPI Cam
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Lens Holder Height 13mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.2m Size(mm) 14x14.5 Weight 7*g* HFOV on 1/4" RPi Cam 100°

MECHANICAL DRAWING REFERENCE



Size tolerance (mm)	0-10±0.05 10-30±0.10	30-120±0.20
Angle tolerance		±2°





Model No:M40180H10



Ardu@am®

Model No:M25170H12



Model No:M25170H12

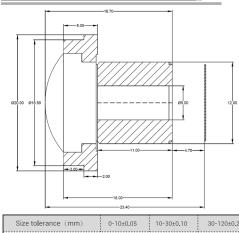
LENS SPECIFICATIONS

Optical Format	1/2.5"
EFL(mm)	1.7
35mm EFL *	18.4
BFL(mm)	4.7
Construction	6G+IR
F/NO	2
FOV (D/H/V) @ 1/2.5"	180/180/140

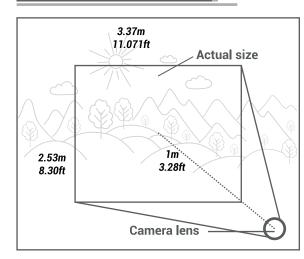
^{* 35}mm Equivalent Focal Length for 1/4" Arduino or RPI Camera

Lens Holder Height 13mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.2m Size(mm) 20 x 18.7 Weight 8g HFOV on 1/4" RPi Cam 118°

MECHANICAL DRAWING



30-120±0.20 ±2°







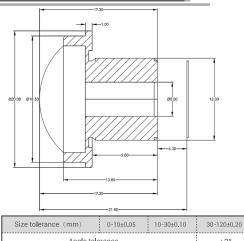
LENS SPECIFICATIONS

Optical Format	1/2.5"
EFL(mm)	1.56
35mm EFL *	16.9
BFL(mm)	4.3
Construction	6G+ IR
F/NO	2
FOV (D/H/V) @ 1/2.5"	185/185/140

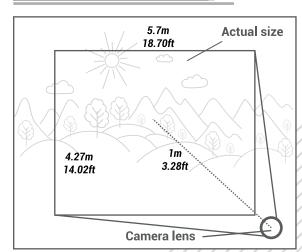
Lens Holder Height	13mm
IR filter	650 IR filter
Mount	M12
Working Wavelength	400-700nm
MOD	0.2m
Size(mm)	20x17.3
Weight	7g
HFOV on 1/4" RPi Cam	141°

^{* 35}mm Equivalent Focal Length for 1/4" Arduino or RPI Camera

MECHANICAL DRAWING



REFERENCE DIAGRAM





Model No:M25156H14



13mm

Ardu@am®

Model No:M30171H16



Model No:M30171H16

LENS SPECIFICATIONS

Optical Format	1/3"
EFL(mm)	1.71
35mm EFL *	18.5
BFL(mm)	4.71
Construction	5G+IR
F/NO	2.2
FOV (D/H/V) @ 1/3.5"	184/184/104

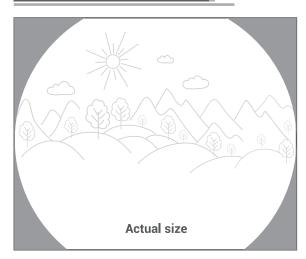
* 35mm Equivalent Focal Length for 1/4" Arduino or RPI (Camera
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Lens Holder Height IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.2m Size(mm) 15x19.7 Weight 7g HFOV on 1/4" RPi Cam 180°

REFERENCE DIAGRAM

MECHANICAL DRAWING

Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tole	±2°		







Model No:M32076M20

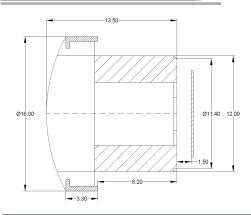
LENS SPECIFICATIONS

Optical Format	1/3.2"
EFL(mm)	0.76
35mm EFL *	8.2
BFL(mm)	2
Construction	2G4P+ IR
F/NO	2.1
FOV (D/H/V) @ 1/3.2"	222/222/222

*	35mm Equivalent Focal	Length for 1/4	' Arduino or RPI Camera

Lens Holder Height 7mm IR filter 650 IR filter Mount M12 **Working Wavelength** 400-700nm MOD 0.2m Size(mm) 16x13.5 Weight 5g HFOV on 1/4" RPi Cam 220°

MECHANICAL DRAWING



Size tolerance (mm)	0-10±0.05	10-30±0.10	30-120±0.20
Angle tole	±2°		

REFERENCE DIAGRAM





Model No:M32076M20





http://www.arducam.com



