

225-000

16:9 Anamorphic Adapter

Cameras fitted with this miniature 16:9 Widescreen Anamorphic Adapter and operating in 4:3 mode capture 16:9 images without losing resolution. The horizontal view of the lens is increased to achieve the 16:9 ratio and the image is reduced down to the 4:3 aspect ratio of the CCD format. When viewed with a 16:9 monitor the image automatically expands to fill the frame. When used with high quality 3-chip lenses and cameras, the adapter maintains the image quality required for broadcast television.

The miniature size makes this anamorphic adapter an ideal addition to small high quality camera systems and zoom lenses used for many special broadcast TV applications.



The 16:9 Widescreen Anamorphic Adapter is designed for use with short focal length lenses. Examples of performance are given below for a 4 mm f/2.2 lens used with 1/3" format cameras, and for a miniature 6.5 – 18.5 mm f/2.8 zoom lens used with 3-chip 1/2" and 1/3" format cameras. The Widescreen Anamorphic Adapter provides 16:9 expansion over the full focal length range of the miniature zoom lens also manufactured by Resolve Optics Ltd

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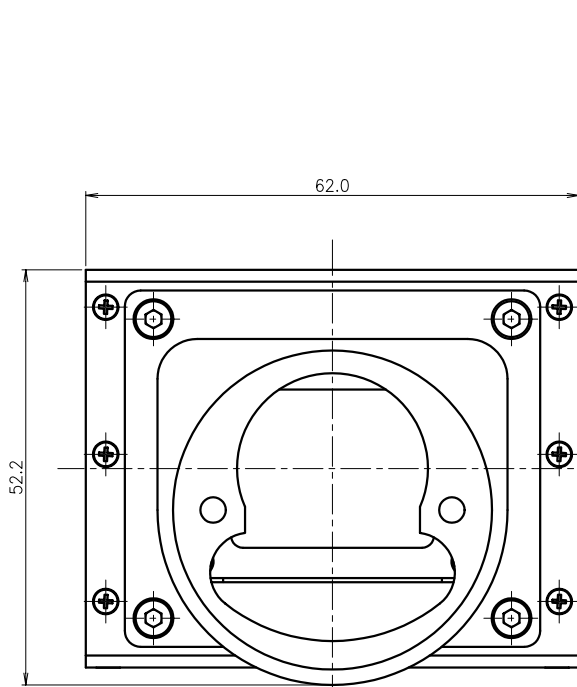
EXAMPLES OF ANGLE OF VIEW ACHIEVED	For 1/3" format 4.8 x 3.6 mm (6 mm diagonal)	For 1/2" format 6.4 x 4.8 mm (8 mm diagonal)		
Using Anamorphic Adapter with lens of focal length	16:9 Angle of View	16:9 Angle of view	4:3 Angle of View without Adapter 1/3" and 1/2" formats	
4 mm lens	83° x 48°		65°x 49° 77°x 58°	
6.5 mm lens	55° x 28°	68° x 40°	40°x 30° 52°x 39°	
18.5 mm lens	20° x 10°	25° x 15°	15°x 11° 19°x 14°	
OPTICAL DATA		Example lens: 4 mm f/2.2	Example lens: 6.5 mm f/2.8	Example lens: 18.5mm f/2.8
Design Entrance Pupil distance from back surface of anamorphic adapter		14.5 mm	25 mm	37 mm
Anamorphic Magnification for 1/3" format		1.406	1.295	1.256
Anamorphic Magnification for 1/2" format			1.341	1.261
Spectral Waveband	450 to 680 nm			
Image Resolution at 70 line pairs/mm	Typically < 10% drop in MTF using adapter compared to lens without adapter			
Typical Mechanical Extension	Approx. 33 mm in front of prime lens	Dependent on adapter used		
Mechanical Front Face	62 x 50 mm Largest cross section	See drawing 225-000 – including 10mm deep hood		
Weight	125 g	+ 35 g for interface adapter to zoom lens		
Specification and drawings are subject to change without notice				

Resolve Optics Ltd
Asheridge Road, Chesham,
Bucks HP5 2PT. England

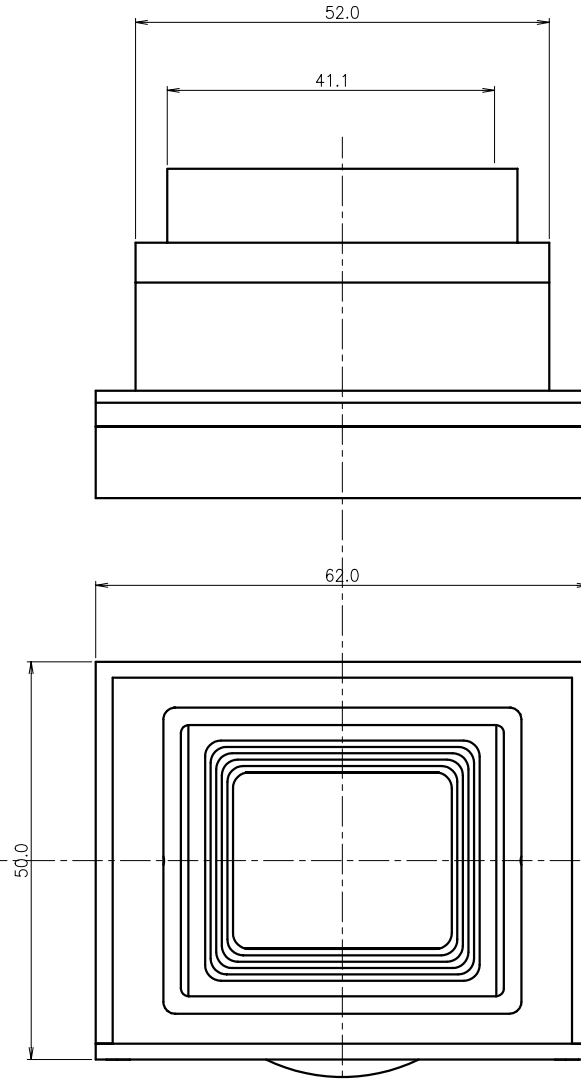
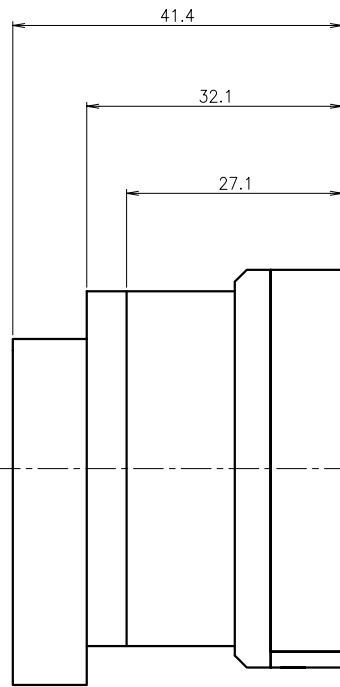
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NOTES:

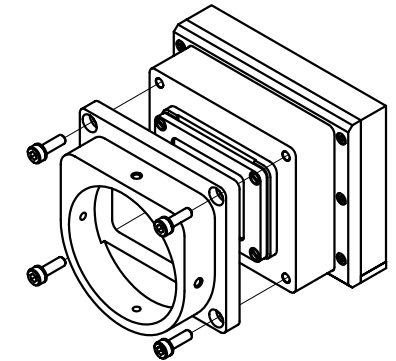
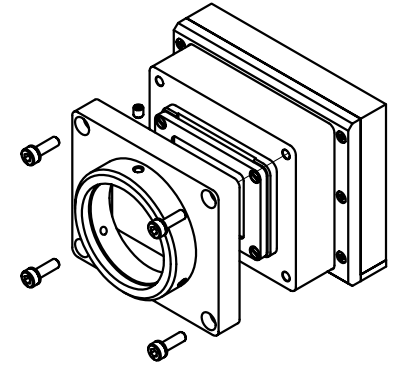
- 1. THIS UNIT SHOWN WITH 227-000 LENS INTERFACE
- 2. END CAPS NOT SHOWN



REAR VIEW



FRONT VIEW



OPTIONAL INTERFACE COMPONENTS



LENS INNOVATION LTD
Chesham, Bucks.

SURFACE FINISH, Ra, TO BE 3.2 μm MAX. UNLESS OTHERWISE STATED.

TITLE:
16:9 WIDESCREEN ANAMORPHIC ADAPTER
PART:
CUSTOMER DRAWING

IF IN DOUBT-PLEASE ASK
MOD & DATE:

ALL DIMENSIONS IN mm UNLESS OTHERWISE STATED.

SCALE: 2 : 1	DRAWN: MM	CHECKED:	DRAWING NO. 225-000	ISSUE: A
		DATE: 23-08-02		