

## Lenses

For orders Call: 0860 22 55 23

ADI Part number	Vendor	Description
<b>LENSES</b>		
<b>1/3" MANUAL IRIS LENSES - FIXED FOCAL</b>		
C0435	KL2814IS	<b>Avenir Manual Iris Lens</b> 1/3", 2.8mm, f1.4, CS
<b>1/3" MANUAL IRIS LENSES - VARIABLE FOCAL</b>		
C0480	KL35V8IS	<b>Avenir Manual Iris Lens</b> 1/3", 3.5-8mm, f1.4, CS
C0472	13VM2812AS	<b>Tamron Manual Iris Lens</b> 1/3", 2.8-12mm, f1.4, CS
C0479	HLM5V50F13	<b>Honeywell Manual Iris Lens</b> 1/3", 5-50mm, f1.3, CS
C1615	13VM550ASII	<b>Tamron Manual Iris Lens</b> 1/3" 5-50mm, f1.4, CS.
<b>1/3" MANUAL IRIS LENSES - VARIABLE FOCAL - ASPHERICAL</b>		
C0478	HLM28V8F95	<b>Honeywell Manual Iris Lens</b> 1/3" 2.8-8mm, f0.95, Aspherical, CS
C1848	TVSH2511IR	<b>Avenir Manual Iris Lens</b> 1/3", 2.5-11mm, f1.4, Aspherical <b>Day/Night</b> , CS
C1862	VM2982	<b>Vantage Manual Iris Lens</b> 1/3", 2.7-8.2mm f1.0, Aspherical, CS
C0484	VM2812-3	<b>Vantage Manual Iris Lens</b> 1/3", 2.8-12mm f1.3, Aspherical, CS
C0477	CG-2813CS	<b>Computar Manual Iris Lens</b> 1/3", 2.8-12mm f1.3, Aspherical, CS
C0476	CG-2719CS	<b>Computar Manual Iris Lens</b> 1/3", 2.7-8mm f1.0, Aspherical, CS
C1596	TVSH0550	<b>Avenir Manual Iris Lens</b> 1/3", 5-50mm, f1.3, Aspherical, CS
C0485	VM5050-3	<b>Vantage Manual Iris Lens</b> 1/3", 5 -50mm f1.3, Aspherical, CS
C0474	CG-0513CS	<b>Computar Manual Iris Lens</b> 1/3", 5 -50mm f1.3, Aspherical, CS
<b>1/2" MANUAL IRIS LENSES - VARIABLE FOCAL - ASPHERICAL</b>		
C0482	VD4510-2	<b>Vantage Manual Iris Lens</b> 1/2", 4.5-12.5mm f1.2, Aspherical, CS
C0475	CG-1014CS	<b>Computar Manual Iris Lens</b> 1/2", 10-30mm, f1.4, Linear, CS
C0471	12VM1040ASIR	<b>Tamron Manual Iris Lens</b> 1/2", 10-40mm, f1.4, Day/Night, CS



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### LENS FORMAT COMPATIBILITY

You can use a larger format lens on a smaller format camera but not the other way round.

EG: A 2/3" Lens can be used on a 1/3" Camera.

By using larger format lens a better quality image may be achieved. This is possible because the central optics of the lens are being used which are of better quality.

CAMERA FORMAT	LENS FORMAT			
	1/3"	1/2"	2/3"	1"
1/3"	yes	yes	yes	yes
1/2"	no	yes	yes	yes
2/3"	no	no	yes	yes
1"	no	no	no	yes

#### Q. When can I use a manual iris Lens?

A. A general rule of thumb is only to use a MI Lens in an internal application. This is because you are reliant on the electronic circuitry of the camera compensating for light changes in the scene and this is not able to compensate to the same degree as that of an Auto Iris Lens.

ADI Part number	Vendor	Description
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#### 1/3" DIRECT DRIVE IRIS LENSES - FIXED FOCAL

<b>C0434</b>	<b>KL2814DS</b>	<b>Avenir Direct Drive Lens</b> 1/3", 2.8mm, f1.4, CS, P plugged
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#### 1/3" DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL

<b>C0455</b>	<b>L163VDC4P</b>	<b>Rainbow Direct Drive Lens</b> 1/3", 1.6-3.4mm, f1.4, CS
<b>C0454</b>	<b>KL35V8DS</b>	<b>Avenir Direct Drive Lens</b> 1/3", 3.5-8mm, f1.4, CS, P plugged
<b>C0439</b>	<b>13VG308AS</b>	<b>Tamron Direct Drive Lens</b> 1/3", 3.0-8mm f1.4, CS
<b>C0468</b>	<b>VD3580-3</b>	<b>Vantage Direct Drive Lens</b> 1/3", 3.5 - 8.0mm f1.4 - 360, CS
<b>C0438</b>	<b>13VG2812AS</b>	<b>Tamron Direct Drive Lens</b> 1/3", 2.8-12mm, f1.4, CS
<b>C1787</b>	<b>HLM5V50F13L</b>	<b>Honeywell Direct Drive Lens</b> 1/3", 5-50mm, f1.3, Long Lead, CS
<b>C1869</b>	<b>13VG550ASII</b>	<b>Tamron Direct Drive Lens</b> 1/3" 5-50mm, f1.4, CS.
<b>C0951</b>	<b>13VG20100AS</b>	<b>Tamron Direct Drive Lens</b> 1/3" 20-100mm, f1.6, CS.
<b>C0456</b>	<b>L582VDC4P</b>	<b>Rainbow Direct Drive Lens</b> 1/3", 5.5-82.5mm, f1.8, CS

**Q. HOW DO I BACK FOCUS A CAMERA FITTED WITH A FIXED FOCAL LENGTH LENS?**

- A.** This is achieved by following five simple steps:
- Set the physical focus of the lens to infinity (clockwise from the front)
  - Aim the camera at the subject to be viewed
  - Release the camera back focus mechanism
  - Adjust the back focus to obtain the best possible picture
  - Secure the camera back focus mechanism

**Q. DOES THE 'F' STOP MATTER WHEN CHOOSING A LENS?**

- A.** Yes, lenses are usually specified as having a minimum and maximum 'f' stop rating; the 'f' stop is a measure of how efficiently the lens allows light from the scene, to pass through the lens and onto the camera CCD sensor. The maximum aperture (when the lens is fully open), is the minimum 'f' stop number and the minimum aperture, (just before the lens completely closes) is the maximum 'f' stop number.
- A.** low minimum 'f' stop number means that the lens can pass more light through during dark conditions which will produce better pictures at night.
- A.** high maximum 'f' stop number may be necessary where there is a high level of light or reflection. This will prevent the camera 'whiting out'.

ADI Part number	Vendor	Description
<b>1/3" DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL - ASPHERICAL</b>		
<b>C1847</b>	<b>TVCD0358-5IRJ</b>	<b>Avenir Direct Drive Lens</b> 1/3", 3.5-8mm, f1.0, Aspherical Day/Night, CS, P plugged
<b>C1319</b>	<b>TVSD2511IRJ</b>	<b>Avenir Direct Drive Lens</b> 1/3", 2.5-11mm, f1.4, Aspherical Day/Night, CS
<b>C0439</b>	<b>13VG308AS</b>	<b>Tamron Direct Drive Lens</b> 1/3", 3-8mm, f1.0, Aspherical, CS
<b>C0451</b>	<b>HLD29V8F95L</b>	<b>Honeywell Direct Drive Lens</b> 1/3", 2.9-8mm f0.95, Aspherical, CS
<b>C0450</b>	<b>HLD29V8DNL</b>	<b>Honeywell Direct Drive Lens</b> 1/3", 2,9-8mm, F0,95, Long Iris Lead, Day/Night Aspherical, CS
<b>C0449</b>	<b>HLD27V13DNL</b>	<b>Honeywell Direct Drive Lens</b> 1/3", 2,7-13mm, F1.3, Long Iris Lead, Day/Night, CS
<b>C1849</b>	<b>VD2982</b>	<b>Vantage Direct Drive Lens</b> 1/3", 2.9-8.2mm f1.0-360, Aspherical, CS
<b>C1890</b>	<b>TG3Z2910FCS</b>	<b>Computar Direct Drive Lens</b> 1/3", 2.9-8.2mm f1.0-360, Aspherical, CS
<b>C0466</b>	<b>VD2812-3</b>	<b>Vantage Direct Drive Lens</b> 1/3", 2.8-12mm f1.3-360, Aspherical, CS
<b>C1889</b>	<b>TG4Z2813FCS</b>	<b>Computar Direct Drive Lens</b> 1/3", 2.8-12mm f1.3-360, Aspherical, CS
<b>C0467</b>	<b>VD3510-3-IR</b>	<b>Vantage Direct Drive Lens</b> 1/3", 3.5-10.5mm f1.0-360 Day/Night, Aspherical, CS

ADI Part number	Vendor	Description
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### 1/3" DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL - ASPHERICAL (continued)

C1596	TVSH0550	<b>Avenir Direct Drive Lens</b> 1/3", 5-50mm, f1.3, Aspherical, CS
C1599	TVSD0-550IRJ	<b>Avenir Direct Drive Lens</b> 1/3", 5-50mm, f1.3, Aspherical, <b>Day/Night</b> , CS
C0469	VD5050-3	<b>Vantage Direct Drive Lens</b> 1/3", 5-50mm f1.3-360, Aspherical, CS
C0452	HLD5V-50DNL	<b>Honeywell Direct Drive Lens</b> 1/3", 5-50mm, F1,3, Long Lead, <b>Day/Night</b> , CS
C0470	VD8540-3-IR	<b>Vantage Direct Drive Lens</b> 1/3", 8.5-40.0mm f1.3-360, <b>Day/Night</b> , Aspherical, CS

### 1/2' DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL

C0462	RA-L612VDC4P	<b>Rainbow Direct Drive Lens</b> 1/2", 6.0-12mm f1.4, CS
C0464	RA-L885VDC4P	<b>Rainbow Direct Drive Lens</b> 1/2", 8.5-85mm f1.4, CS

### 1/2' DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL - ASPHERICAL & LINEAR

C0446	CG-4512FCS	<b>Computer Direct Drive Lens</b> 1/2", 4.5-12.5mm f1.2-360, Aspherical, CS
C0441	CG-1014FCS	<b>Computer Direct Drive Lens</b> 1/2", 10-30mm f1.4-360, Linear, CS

### 1/2' DIRECT DRIVE IRIS LENSES - VARIABLE FOCAL - DAY/NIGHT

C0437	12VG10 40ASIR	<b>Tamron Direct Drive Lens</b> 1/2", 10-40mm, f1.4, Day/Night, CS
C0447	CG-4512 FCS-IR	<b>Computer Direct Drive Lens</b> 1/2", 4.5-12.5mm f1.2-360, Day/Night, Aspherical, CS
C0463	RA-L880 VDC4PIR	<b>Rainbow Direct Drive Lens</b> 1/2", 8.0-80mm f1.6, Day/Night, CS

### 1/3" VIDEO DRIVE IRIS LENSES - FIXED FOCAL

C0436	KL2814VS	<b>Avenir Video Drive Lens</b> 1/3", 2.8mm, f1.4, CS, P plugged
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# Focus on lenses

## Features

- IR Corrected using "ED" Glass
- IR lenses provide superior image clarity during both Day and Night
- Complete range from Manual Iris to Zoom with Pre-Sets
- Cost effective with high quality optics
- Aspherical options within the range
- Auto Iris lenses are Pre-Plugged for ease of installation

The Vantage lens range includes a selection of IR corrected lenses to meet the demands of today's high quality and ever increasing range of Day/Night cameras such as the Vantage VGC852S/VGC850S and VGC952SWD/VGC950SWD.

These are manufactured from high quality "ED" (Extra-Ordinary Low Dispersion) glass and their quality is not to be confused with a poorer choice, manufactured from "coated" or "plastic" elements.

Vantage lenses are offered in a wide choice to meet the requirements of the industry from Manual Iris, Varifocal, IR corrected and Aspherical through to Zoom Lenses with Preset options.

The entire range of lenses have been designed and manufactured to the highest standards expected of our industry in order to offer quality images at value for money prices.

To find out more about the full range from Vantage please visit [www.vantage.eu.com](http://www.vantage.eu.com)

ADI Part number	Vendor	Description
<b>1/3" VIDEO DRIVE IRIS LENSES - VARIABLE FOCAL</b>		
<b>C0493</b>	<b>KL35V8VS4</b>	<b>Avenir Video Drive Lens</b> 1/3", 3.5-8mm, f1.4, CS, P plugged
<b>C0487</b>	<b>13VA2812AS</b>	<b>Tamron Video Drive Lens</b> 1/3", 2.8-12mm, f1.4, CS
<b>C1868</b>	<b>13VA550AS</b>	<b>Tamron Video Drive Lens</b> 1/3", 5-50mm, f1.6, CS (3305)
<b>1/3" VIDEO DRIVE IRIS LENSES - VARIABLE FOCAL - ASPHERICAL - DAY/NIGHT</b>		
<b>C0488</b>	<b>13VA308AS</b>	<b>Tamron Video Drive Lens</b> 1/3", 3-8mm, f1.0, Aspherical, CS
<b>C0490</b>	<b>CG-3510AFCS-IR</b>	<b>Computar Video Drive Lens</b> 1/3", 3.5-10.5mm f1.0-360, Day/Night, Aspherical, CS
<b>C0492</b>	<b>CG-8513AFCS-IR</b>	<b>Computar Video Drive Lens</b> 1/3", 8.5-40mm f1.3-360, Day/Night, Aspherical, CS
<b>1/2" VIDEO DRIVE IRIS LENSES - VARIABLE FOCAL - ASPHERICAL - DAY/NIGHT</b>		
<b>C0486</b>	<b>12VA1040ASIR</b>	<b>Tamron Video Drive Lens</b> 1/2", 10-40mm, f1.4, Day/Night, CS
<b>C0491</b>	<b>CG-4512AFCS-IR</b>	<b>Computar Video Drive Lens</b> 1/2", 4.5-12.5mm f1.2-360, Day/Night, Aspherical, CS

#### Q. HOW DO I SET UP AN AUTO IRIS LENS?

**A.** An Auto Iris lens has two 'pots' on the side commonly marked ALC (Automatic level control) and LEVEL. The ALC control has settings of PEAK and AVERAGE (P+A). The LEVEL control has HIGH and LOW settings 'H+L'.

- **ALC**

The adjustment allows control over any bright areas in the scene e.g. sun reflection through windows, street lighting etc. There are two settings PEAK and AVERAGE.

If set to PEAK, bright areas in the scene are taken more into account reducing the contrast in the surrounding area.

This allows more detail to be seen in the bright areas.

If set to AVERAGE the lens takes the bright areas less into account which usually causes over brightness or flare in these areas, but raising the contrast of the surrounding area.

- **LEVEL**

The only correct way to set the VIDEO LEVEL is by the use of an oscilloscope, for most Engineers this is not an option.

A more practical method is to use a service test monitor and a camera that you know has been set up correctly to 1 volt peak to peak.

- Put the video output from this tested camera into the test monitor and adjust the contrast and brightness until you are satisfied with the picture. Mark the contrast and brightness controls so that you can set them to this position again.

- Set up each camera adjusting the ALC (as above) then adjusting the LEVEL to obtain a picture similar to that achieved with the test camera. (Making sure that your test monitor is set to your marked positions)

**NB:** On most zoom lenses the ALC adjustment is a speed control for the Iris motor and is best left in the mid position.

The Amplifiers on Auto Iris lenses are sensitive, so adjust the LEVEL and ALC with a proper trimming tool instead of an ordinary screwdriver, which can induce small voltages.

**Q. HOW DO I BACK FOCUS A CAMERA FITTED WITH A ZOOM LENS?**

**A.** This can be achieved with the following procedure.

- Set the lens to full wide angle view.
- Set the physical focus of the lens to infinity (clockwise viewed from the front).
- Aim the camera at an object at least 30 Mtrs away.
- Release the camera back focus mechanism.
- Adjust the back focus to obtain optimum clarity.
- Zoom the lens in to full telephoto and focus on the same object.
- Keep this object in view as you slowly zoom out and if all is set correctly it should remain in focus (track).
- Secure the back focus mechanism.

**Q. CAN I FIT A 1/3" LENS TO 1/2" CAMERA?**

**A.** The simple answer is NO.

ADI Part number	Vendor	Description
<b>ZOOM LENSES</b>		
<b>1/3" VIDEO DRIVE IRIS ZOOM LENSES</b>		
<b>C0495</b>	<b>CG-Z5518PDC-CS</b>	<b>Computar Video Drive Zoom Lens</b> 1/3", 5.5-187mm F1.8-560, Spot Filter Pre-Sets, CS
<b>1/2" VIDEO DRIVE IRIS ZOOM LENSES</b>		
<b>C0498</b>	<b>KL10X20VCP4</b>	<b>Avenir Video Drive Zoom Lens</b> 1/2", 10-200mm, f1.8, Pre-Sets, P plugged
<b>C1901</b>	<b>HZCG12240P</b>	<b>Avenir Video Drive Zoom Lens</b> 1/2", 12-240mm, f2.2, Pre-Sets, P plugged
<b>C0496</b>	<b>H20X10MEAP4</b>	<b>Rainbow Video Drive Zoom Lens</b> 1/2", 10-200mm, f2.4, Pre-Sets, C
<b>C0497</b>	<b>H20X15MEAP4</b>	<b>Rainbow Video Drive Zoom Lens</b> 1/2", 10-300mm, f2.4, Pre-Sets, C
<b>C0494</b>	<b>CG-Z1015AMSP</b>	<b>Computar Video Drive Zoom Lens</b> 1/2", 10-300mm F1.5-560, Pre-Sets, Spot Filter, C
<b>C1003</b>	<b>C22X17B-Y41</b>	<b>Fujinon Telephoto Zoom Lens</b> 1/2" 22 x Zoom, 17-374mm F2.3-3000, Video Drive, Presets, ND Filter, C Mount
<b>C1750</b>	<b>C22X17R2D-V41</b>	<b>Fujinon Telephoto Day/Night Zoom Lens</b> 1/2" 22 x Zoom, 17-374mm F2.3-3000, Video Drive, Presets, ND Filter, C Mount
<b>C1751</b>	<b>C22X23R2D-V41</b>	<b>Fujinon Telephoto Day/Night Zoom Lens</b> 1/2" 22 x Zoom, 23-506mm F3.1-3000, Video Drive, Presets, ND Filter, C Mount

**Q. HOW DO I CONNECT AN AUTO IRIS LENS TO A CAMERA?**

**A.** This is usually performed by a simple plug in connection to the rear or side of the camera. However you should always refer to the relevant camera handbook.

**Q. WHAT IS THE DIFFERENCE BETWEEN AUTO IRIS AND DIRECT DRIVE LENSES?**

**A.** An Auto Iris lens is one which automatically adjusts its iris for changes in the scene lighting levels. The motor which opens and closes the iris is driven by an Amplifier which processes a small electronic signal changing with the light level.

**A.** Direct Drive 'DD' lens does not have this Amplifier and can only operate with a camera fitted with one.

**A.** Camera specification will indicate the available output options.

## C AND CS MOUNT

The difference between C and CS mount lenses is the distance between the actual sensor of the camera and the lens optics. CS lenses are 5mm shorter than C types.

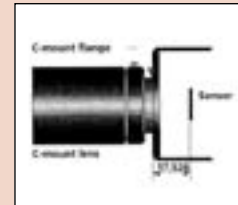
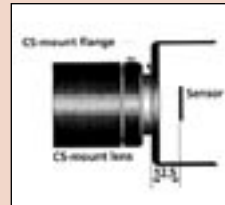
CS type lenses can be fitted direct to CS Mount Cameras.

C type lenses can be fitted direct to C Mount Cameras.

A C type lens can be adapted to fit a CS Mount Camera by the fitting of a 5mm Spacer Ring.

A CS type lens cannot be used at all with a C Mount Camera.

As you will see from the Camera descriptions, many Cameras have a mount which can be changed from C to CS or vice versa.



ADI Part number	Vendor	Description
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## LENSES - MEGA PIXEL

### 1/2" AND 2/3" MEGA PIXEL LENSES

	<b>H0514-MP</b>	<b>Arecont Manual Iris Mega Pixel</b> 1/2" 5mm F1.4-16C
<b>C1708</b>	<b>M0814-MP</b>	<b>Arecont Manual Iris Mega Pixel</b> 2/3" 8mm F1.4-16C
<b>C1575</b>	<b>M1214-MP</b>	<b>Arecont Manual Iris Mega Pixel</b> 2/3" 12.0mm F1.4-16C
<b>C1731</b>	<b>23FM16SP</b>	<b>Tamron Manual Iris Mega Pixel</b> 2/3" 16mm F1.4, C
<b>C1732</b>	<b>23FM25SP</b>	<b>Tamron Manual Iris Mega Pixel</b> 2/3" 25mm F1.4, C
<b>C1733</b>	<b>23FM50SP</b>	<b>Tamron Manual Iris Mega Pixel</b> 2/3" 50mm F1.4, C
<b>C1811</b>	<b>M13VM308</b>	<b>Tamron Manual Iris Mega Pixel Lens</b> 1/3", 3-8mm, f1.0, CS
<b>C1810</b>	<b>M13VG308</b>	<b>Tamron Direct Drive Iris Mega Pixel Lens</b> 1/3", 3-8mm, f1.0, CS
<b>C1786</b>	<b>HG220414FC-MP</b>	<b>Arecont Direct Drive Mega Pixel</b> 1/2" 4-8mm F1.4, C
<b>C1758</b>	<b>D32X10R4D-V41</b>	<b>Fujinon Telephoto Zoom Mega Pixel Lens</b> 1/2" 32 x Zoom, 10-320mm F2.5-1500, Day/Night, Video Drive, Presets, ND Filter, C Mount

### LENS ACCESSORIES

<b>C0433</b>	<b>DLA</b>	<b>Rainbow Lens Converter</b> DC Drive to Video Drive Converter
<b>C0431</b>	<b>CG-VM300</b>	<b>Computar</b> View Finder
<b>C0432</b>	<b>CG-VM400</b>	<b>Computar Mount Converter</b> C-CS Mount Converter (5mm Extension Ring)
<b>C1752</b>	<b>CG-EX1.5C</b>	<b>Computar Lens Extender</b> C-Mount 1.5x Extender
<b>C1754</b>	<b>CG-EX2.0C</b>	<b>Computar Lens Extender</b> C-Mount 2.0x Extender
<b>C1753</b>	<b>CG-EX1.5CS</b>	<b>Computar Lens Extender</b> CS-Mount 1.5x Extender
<b>C1755</b>	<b>CG-EX2.0CS</b>	<b>Computar Lens Extender</b> CS-Mount 2.0x Extender
<b>C0430</b>	<b>CG-FSK</b>	<b>Computar Filters</b> Filter Set Up Kit