



VEGA™ Rugged Housing

Installation Guide



2010 Model



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1.0 Introduction

Thank you for choosing the Redvision VEGA™ rugged camera housing; designed for use in exposed outdoor locations. The Vega™ range of products offers rugged enclosures with features from simple empty enclosure, to intelligent wiper and auxiliary control, with a variety of power supply options. Please study this guide thoroughly before installing, maintaining, and using the product.

1.1 Product Features

The Vega™ 2010 range offers a rugged, heated, safe enclosure for a user's own choice of camera and lens assembly. The heater is self-regulating and requires no user intervention. The housing can be installed in both upright and hanging (under-canopy) orientations, and provides cable management and a convenient electrical connection point for power and user connections.

1.2 Instructions for the Disposal of Electric and Electronic Equipment



The Wheelie Bin symbol on this product or its packaging indicates that the product is required to be disposed of in an acceptable manner. This is in accordance with the WEEE Directive 2002/96/EC. For more information regarding the correct disposal of this unit at the end of its life please contact the company from which this unit was purchased.

1.3 Safety



**THIS CAMERA SYSTEM MUST BE INSTALLED, OPERATED AND MAINTAINED
IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.**

1. Installation of this system should be carried out by suitably trained and qualified technicians in accordance with local electrical codes.
2. To prevent the risk of electric shock do not expose the electrical connectors on the camera or the inside of the control box to water before or during installation. Condensation/ misting may occur if water is allowed to enter the housing before power is applied.
3. Do not drop the product.
4. Avoid the use of alcohol or solvent-based cleaners. The product should be cleaned with clean water and non-abrasive material.
5. The camera system should be installed where it cannot be tampered with by unauthorised personnel.
6. The products should be securely fastened to a structure of sufficient strength to support it. Allowance should be made for additional loads caused by local wind effects.
7. This product incorporates an automatic heating element; located underneath the housing window. This element will become hot, and touching the element could result in burns or injury. Avoid contact with the heating element.

1.4 Parts Supplied/ Available

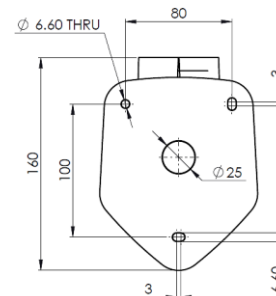
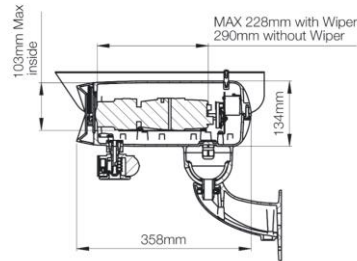
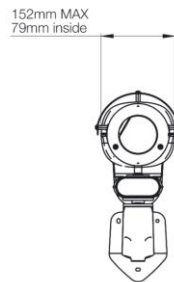


Part	Quantity
1: Vega™ Housing assembly	1
2: Installation Kit:	
Allen Key Large (5mm) – Top cover removal	1
Allen Key Medium (3mm) – Front bezel & wall bracket cover removal	1
Allen Key Small (2.5mm) – Bracket arm lock ring fixing	1
¼" UNC bolt – Camera fixing to base plate	1
3: Bracket locking bar (optional , must be ordered separately)	1

If parts appear to be missing or damaged this should be reported immediately to your supplier.

2.0 Specifications

Housing material	Die-Cast Anodised Aluminium with corrosion-resistant plating (Marine finish available)
Window material	Toughened Glass (Polycarbonate window available as option)
Body colour	RAL 7035 Light Grey (Custom RAL colours available)
Weather-resistance	IP67
Environment regulation	Internal heater, thermostatically controlled.
Impact rating	IK10 (excluding glass)
Power (VEGA-2010-12)	12VDC @ 36VA max.
Power (VEGA-2010-24)	24VAC @ 70VA max.
Power input protection	4A Anti-surge Fuse
Max. Camera/ Lens size	290D x 80H 100W mm
External Dimensions	358D x 134H x 152W mm max.
Weight	3.7Kg (no camera fitted, incl. wall bracket)
Mounting options	Standard: Wall bracket with cable managed entry PED: Cable managed pendant/pedestal bracket with 4" PCD ADPT: Tower mount adapter for PED with 4" PCD



3.0 Installation

It is strongly recommended that the camera/lens assembly is fitted indoors, before the housing is installed. All attempts should be made to avoid damp air entering the housing enclosure, before sealing and powering. Failure to observe this advice may result in condensation forming on the housing window, causing obscuration of the camera image.

3.1 Wall Bracket (Standard fitting):

- Use the three mounting holes to fix the bracket to the wall (Fig 1); the bracket can be removed from the housing body to aid fixing, by removing the Pivot Ball (shown below). The upper-left and bottom holes are elongated to aid levelling during fixing.

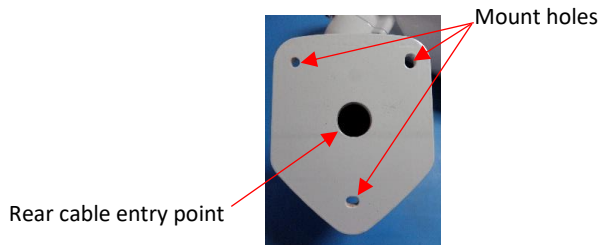


Fig 1

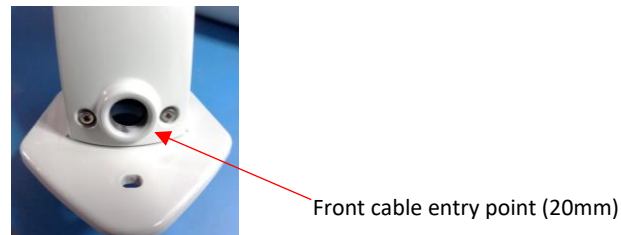


Fig 2

- Two cable entry points are provided (fig 2); at the rear of the baseplate (25mm $\varnothing$ hole), for cables passed through the wall, and at the front; located at the bottom of the wall arm cover (20mm threaded for conduit). A screw cap is supplied for this access point, in the event it is not used.

3.2 Removing the bracket to aid wall fixing:

- Remove the 4 Allen bolts securing the Pivot Ball to the housing body, using the 5mm Allen wrench (Fig 3). Lifting the Pivot Ball and bracket arm away from the housing body reveals 2 cable entry glands for access into the housing enclosure (Fig 4). Ensure that the rubber O-rings remain on the screws.

Removing the Pivot Ball assembly

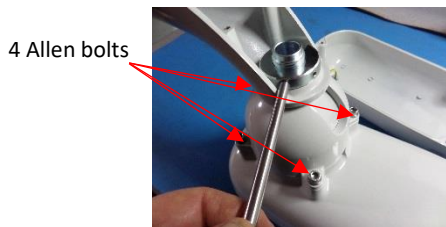


Fig 3

Cable Glands revealed



Fig 4

- Ensure that any unused Glands are closed off, to avoid damp air entering the housing.
- The wall bracket arm can now be attached to the mounting surface.
- The cable(s) can be passed through the bracket arm by removing the front cover of the arm.

- Remove the wall bracket front cover (Fig 5). Using the medium Allen wrench provided (3mm), unscrew the 4 fixing bolts) and pull the cover away from the bracket arm.
- The cable access hole and locking ring assembly are now visible (Fig 6).

Bracket cover fixing screws



Fig 5

Bracket interior



Cable access
&
Locking ring
assembly

Fig 6

- Pass the cable(s) into the arm and through the cable access hole (16mm $\varnothing$), into the Pivot ball assembly (Fig 7):



Fig 7

- Offer the housing body up to the Pivot Ball and pass the cable(s) through the gland(s), ensuring unused glands are closed off to prevent damp air ingress.
- Attach the housing body to the Pivot Ball assembly and refit, using the 4 Allen bolts. Ensure the rubber O-ring seals are still fitted on each bolt. Tighten the locking ring using the optional wrench bar (Fig 8).
- Upon re-fitting the housing body to the bracket arm; position the housing and tighten the locking ring with the wrench bar, and tightening one of the grub screws using the supplied Allen wrench (2.5mm) This fixes the ring in place and ensures the housing remains firmly in position (Fig 9)



Fig 8

Using the optional wrench bar to tighten the lock ring



Fig 9

Grub screw for fixing Locking ring in place

3.3 PED mount: fitting instructions

The PED mount is an alternative mounting system, designed to replace the standard wall bracket assembly. The PED is designed to mount the VEGA™ housing to poles and towers using a 4" PCD fitting. The PED attaches to the housing Pivot Ball in the same way as the wall bracket; with the same cable access. Removal is the same process as described in section 3.2, Fig 3.

- To tighten the lock ring in the PED, first remove the PED column cover, by removing the Allen screw as shown in Fig 10 below. Tighten using the optional wrench bar (Fig 11).



Fig 10



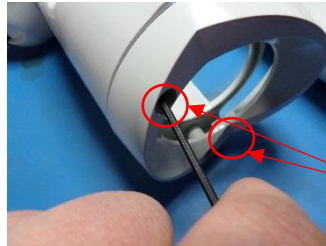
Fig 11

- Fix, pass the cable(s) through; attach the housing body; position the housing and tighten the lock ring as described in section 3.2, figs 8 & 9.

4.0 Fitting the camera into the housing

4.1 Removing the housing cover

- First, loosen the front bezel Allen bolts by 3 turns. This will allow the housing cover to be removed easily (fig 8):



Loosen the 2 Allen bolts to release the front bezel

Fig 8

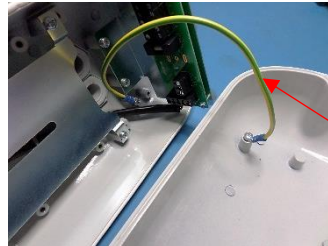
- Next, loosen the 3 Allen bolts securing the Housing cover (Fig 9)



Unscrew the 3 Allen bolts securing the housing cover

Fig 9

- Gently pull the housing cover backwards and upwards, noting that an earthing strap connects the housing cover to the base. Ensure that the earthing strap remains connected at all times (Fig 10). ⚠ **Take care to ensure that the earth strap is not trapped when refitting the housing cover.**



Earthing strap bonding the cover to the housing base

Fig 10

4.2 Installing the camera & lens assembly

- The camera baseplate is secured by 4 screws. The baseplate sits on 4 mount posts. Each post is stepped, allowing 2 mounting height options. The baseplate itself can also be inverted, allowing 4 different heights in total. This allows for a wide variety of cameras and lens combinations to be used, whilst still retaining full vision through the window without obscuration.
- Remove the 4 screws and fix the camera to the baseplate using the ¼" UNC bolt supplied in the parts kit. Position so that the lens is close to the housing window. Use the baseplate and the stepped mount posts to allow optimum placement of the camera. Best placement allows a slight gap between the lens and the housing window; to allow hot air from the heater to rise and keep the lens and window clear at all times.

4.3 Connecting the camera & lens assembly

- A user connection interface is provided for power (Fig 11, below), with a 4A anti-surge fuse for protection. The interface board accepts the following voltages:

12VDC, 36W Max.

24AC, 70W max.

- The heater component is thermostatically controlled (ON 20°C, OFF 30°C) and will draw:

550mA max. @ 12VDC (6.6VA)

350mA nominal @ 24VAC (8.4VA)

- Please allow sufficient headroom for camera & lens requirements.



Fig 11

- User Interface connections:

J1/J2: User Pass-through connections

J3: Power input 12VDC (VEGA-2010-12)

Power input 24VAC (VEGA-2010-24)

- Connect the preferred power input to **J3**; observing the correct polarity (when using 24AC, **LIVE** should connect to **+**, to ensure the supply is fused correctly). An earth connection is provided for using AC supplies.
- J6 allows the Installer to connect any auxiliary functions (such as Audio, Alarms etc.) using the connector (for pre-build for example). Camera-side connections connect to **J2**; on-site connections are made using **J1**. Each pin on J1 connects to its counterpart on J2. These connectors are not connected to any other part of the circuit; they are provided simply to make proprietary connections easier on site for the Installer. Avoid contact with the heating element at all times when powered; as burns/ injury could occur.
- Once connection and final testing is complete; re-fit the top cover using the 3x 5mm Allen screws, then fasten the 2x 3mm Allen screws on the front bezel; ensuring the cover and bezel are fitted flush and evenly all round. Your Vega™ 2010 housing is now ready to use. ⚠ **Take care to ensure that the earth strap is not trapped when refitting the housing cover.**

5.0 WARRANTY INFORMATION

Redvision CCTV Limited (Redvision) warrants the buyer that the product will, on the date of shipment, be free from defects in material & workmanship and will conform to Redvision's specifications, provided to the buyer. If any defect in material or workmanship appears in the product, Redvision will, at its discretion, either repair or replace the defective product without charge at Redvision's customer service centre or authorised repair facility or credit or refund the purchase price of the defective product, provided:

- The defect appears within **36** months from the date of purchase.
- Examination of the product confirms that the claimed defect actually exists.

Buyer shall follow Redvision's instructions regarding return of the defective product and no product will be accepted for repair, replacement, credit or refund without:

- Buyer or an authorised representative of the buyer first contacting Redvision Technical Support for assistance and actual confirmation of suspected defect or fault.
- Written authorisation of Redvision or in accordance with Redvision's written instructions, including an official **Return Merchandise Authorisation number (RMA)**, issued by Redvision CCTV Ltd.

In the case of any such return the buyer shall bear the risk of loss or damage and shall prepay all transportation charges to Redvision. The replaced product shall become Redvision's property. In no event shall Redvision be responsible for de-installation or reinstallation of the product or for the expenses thereof. If it is determined that returned product is not defective, the buyer shall pay Redvision all costs of handling, inspection, repairs and transportation at Redvision's then prevailing rates.

With respect to product not manufactured by Redvision, to the extent permitted, extends the warranties and affords the remedies to the buyer given to Redvision by its vendor of said products.

The foregoing warranties do not extend:

- to expendable items, including SD Cards and Hard Disks
- to experimental or development products
- to product which has been subjected to misuse, neglect, accident or abuse;
- to the unauthorised repair or alteration by anyone other than Redvision;
- to improper installation, storage or maintenance by anyone other than Redvision; to product used in material violation of Redvision's instruction or to product which has had its serial number or month and year of manufacture or shipment removed, defaced or altered or to software.

The term "**software**" means a set of logical instructions and table of information which guide the functioning of a processor. Such set may be contained in any medium whatsoever including, without limitation, hardware containing a pattern of bits representing such set, provided, however, the term "software" does not mean or include the medium.

Redvision shall charge for the repair of all product returned out of warranty. Call Redvision customer service +44 (0)1420 448 448 for an RMA number or visit www.redvisioncctv.com for more information.

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6.0 Contact Information

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