



by Schneider Electric

INSTALLATION

# Varifocal Length Lenses

C748M-D (6/09)

## Important Safety Instructions

1. Servicing should be done only by qualified service personnel.
2. Only use replacement parts recommended by Pelco.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

## Description

Lenses in the varifocal category offer a selection of imager format optics in various focal length ranges. The CS lenses require fewer glass elements to focus at a shorter distance, while not affecting picture quality. Lenses are available in CS-type mounts.

All varifocal lenses feature high resolution power in a compact body.

The VA Series lens has a manual iris, manual focus, and manual zoom. The VD Series lens has a direct drive auto iris, manual focus, and manual zoom. The VD Series has an industry-standard, square, 4-pin connector that plugs directly into the camera receptacle. In addition, all auto iris lenses include a spot filter.

## MODELS

Table A. Varifocal Length Lenses

| Focal Length | Iris Type  | 13VA1-3      |
|--------------|------------|--------------|
| 1.6~3.4 mm   | Adjustable | 13VA1-3      |
|              | Auto Iris  | 13VD1-3      |
| 2.5~6.0 mm   | Auto Iris  | 13VD2.5-6    |
| 2.8~12.0 mm  | Adjustable | 13VA2.8-12   |
|              | Auto Iris  | 13VD2.8-12   |
| 3.0~8.0 mm   | Adjustable | 13VA3-8      |
|              | Auto Iris  | 13VD3-8      |
| 5.0~40.0 mm  | Adjustable | 13VA5-40     |
|              | Auto Iris  | 13VD5-40     |
| 5.0~50.0 mm  | Adjustable | 13VA5-50     |
|              | Auto Iris  | 13VD5-50     |
| 5.5~82.5 mm  | Auto Iris  | 13VD5.5-82.5 |

## Installation

1. Remove the dust cover from the lens.
2. Remove any dust with a soft brush or clean compressed air.
3. Install the lens by carefully threading it clockwise on the mount of the camera until it is fully seated.
  - a. If the lens has a coupling ring, tighten it against the camera. Use a C/CS-mount adapter if attaching a C-type lens to a CS-type camera.
  - b. If your lens has a direct drive or video drive auto iris, plug the electrical connector directly into the camera's DC-drive or video drive socket, whichever applies.
4. Follow the camera operating instructions for iris and focus adjustments.

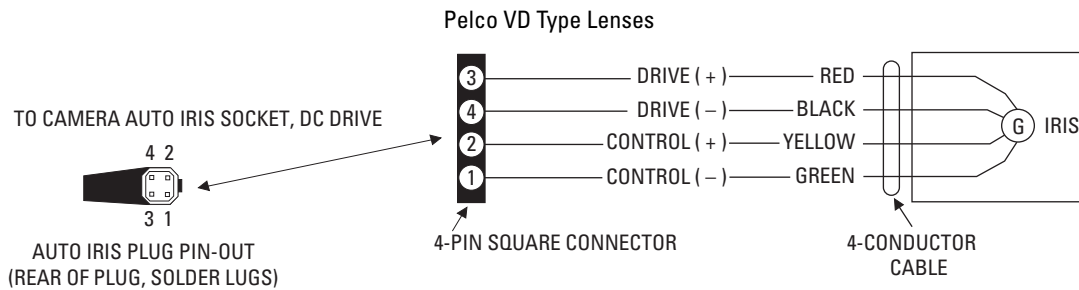
## Routine Servicing

**⚠ WARNING:** Never touch the surface of the lens during handling or equipment damage could result. To remove dust from the lens, use a soft brush or clean compressed air.

To remove fingerprints or oil stains from the lens surface:

1. Use lens cleaning paper or a clean cotton cloth with a little cleaning liquid. Do not use any organic solvents such as thinner or benzene.
2. Starting from the center of the lens surface, wipe off the lens using a light circular motion.
3. Wipe the lens body with a silicon cloth.

## Lens and Connector Wiring Diagram




## Specifications and Product Warranty

Consult the following locations for current specifications and product warranty information:

- The most recent update of Pelco's B.O.S.S.® software
- Pelco Web site at [www.pelco.com](http://www.pelco.com)

*(Design and product specifications subject to change without notice.)*

 **Green** The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

### REVISION HISTORY

| Manual # | Date  | Comments   |
|----------|-------|--|
| C748M-B  | 11/05 | Added information on VDIR lenses. Reformatted manual.  |
| C748M-C  | 11/06 | Removed information on VDIR lenses.  |
| C748M-D  | 6/09  | Removed information on 12VA4-10, 12VA6-13, 12VDA4-10, 12VD6-13, 12VV4-10, 12VV6-13, 13VA2.5-6, 13VA5.5-82.5, 13VD3.5-8, 13VV1-3, 13VV2.5-6, 13VA3.5-8, 13VV5-50, 13VV3-8 lenses. |

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