

Notices and Safety information

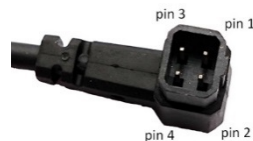
- Do not look through the lens towards strong illumination such as the sun.
- The mounting thread may be sharp. Handle the lens carefully to avoid injury.
- The lens is a precision optical assembly and should not be subject to excessive vibration or shock.
- Do not disassemble the lens, there are no serviceable parts inside. If the lens requires service, see the warranty and return section.
- In some situations water vapor from the air may condense on the lens, such as rapidly moving from a cold place to a warm place. Avoid this condensation by letting the lens adjust to the ambient temperature before removing the lens caps or installing onto a camera.
- Do not touch the glass elements of the lens. To clean the lens, refer to the **routine service** section.
- Do not allow the lens to become wet.
- Do not use organic solvents on the lens such as thinner or acetone.

Installation

Most varifocal lenses have a slip ring CS mount which allows the user to rotate the lens up to 320° after mounting. The slip ring is tensioned and will have more resistance to lens rotation. The slip ring has a hard stop that allows the lens to be removed. Do not over-torque the mount when tightening. If the lens has an autoiris or p-iris, plug the cable into the receptacle on the camera.

Iris operation

The iris operation is controlled electronically by the camera with DC autoiris control. The autoiris cable should be connected to the camera's iris cable receptacle.



DC auto iris	Pin	Function
	1	Control -
	2	Control +
	3	Drive +
	4	Drive -

Adjusting lens focus

Adjust focus using this procedure:

- For autoiris lens; place a dark neutral density filter in front of the lens to fully open the autoiris for focusing.
- Loosen the focus thumbscrew, rotate the focus ring until the proper focus is achieved, and then tighten the thumb screw to lock the focus in place.

If focus cannot be achieved you may have to adjust the back focus of the camera. Start by positioning the lens focus to the middle of the focus range. Using the camera operating instructions, adjust the camera back focus to bring the image into focus. Now slightly readjust the lens focus ring to find the best overall focus.

If the lens is still not in focus or the camera does not have a back focus adjustment, verify that there is not a C-CS adapter ring between the camera and lens (some CS-mount cameras come with this additional part so a C-mount lens can be used). This C-CS adapter is not required for this lens model.

Adjusting zoom

Adjust zoom using this procedure:

- Loosen the zoom thumbscrew, rotate the zoom ring until the desired image size is achieved, and then tighten the thumb screw to lock the zoom in place.
- The image will go out of focus when the zoom ring is adjusted. Simply refocus the lens using the focus adjustment procedure.

Compliance

All products listed in this manual comply with applicable requirements for RoHS and CE marks. Compliance certificates are available by request.

Routine service

Remove any dust or dirt accumulated on the lens with compressed air or a blower brush.

To remove oil or fingerprints from the lens use a soft lint-free cloth or lens tissue dampened with alcohol or lens cleaning fluid. Wipe lightly in a spiral motion starting from the center of the glass element and working towards the edge. Repeat as necessary with a fresh area of cloth or lens cleaning tissue.

Lens specifications

Lens specifications are available on the Hanwha Techwin website at <https://www.hanwhasecurity.com>.

Lens information

Lens model	Focal length	Day/Night	Iris type	Mount type
SLA-T-M410DN	4-10mm	Yes	Auto iris	CS
SLA-T-M1250DN	12-50mm	Yes	Auto iris	CS
SLA-T-M940DN	9-40mm	Yes	Auto iris	CS