

SECTION 28 23 00

VIDEO SURVEILLANCE

PART 2 – PRODUCTS

2.01 Megapixel Lens

- A. The lens shall provide a focal length 1.28mm
- B. The lens shall utilize a rectilinear optical design that provides low barrel distortion with ultra wide angle fields of view.
- C. The lens shall provide a maximum horizontal barrel distortion of less than eight percent (8%) when used with a 1/3-inch format camera sensor.
- D. The lens shall provide an ultra wide horizontal field of view up to 135 degrees.
- E. The lens shall provide the following fields of view based on the camera's sensor size.

Lens Field of View per Camera Format

Sensor Size:	1/4 inch	1/3 inch	1/2.5 inch
Horizontal Field of View:	109°	125°	135°
Vertical Field of View:	93°	109°	119°
Diagonal Field of View:	122°	137°	141°

- F. The lens shall be usable with up to 5 megapixel resolution cameras.
- G. The lens shall have a modulation transfer function (MTF) of 140 lp/mm@>20%.
- H. The lens shall keep near and far objects continuously in focus without lens adjustment.
- I. The lens shall provide a pan-focus distance of ten centimeters (10cm) to infinity.
- J. The lens shall provide an aperture range of F/1.8 to closed.
- K. The lens shall be available with either an auto-iris or manual iris version.
- L. The auto iris version of the lens shall incorporate an internal neutral density filter to improve image clarity in bright light.
- M. The lens shall attach to the camera using a CS-mount.

2.02 Products Meeting the Requirements

- A. Manual Iris Lens – Theia model SY125M
- B. Auto Iris Lens – Theia model SY125A

2.03 Manufacturer(s)

Theia Technologies
Wilsonville, Oregon
503-570-3296
www.TheiaTech.com