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## **CAMERA FIELD OF VIEW AND FOCUS**

We can install different lenses on our cameras to affect *Field of View* (FOV). Here are the *Field of View* results (calculated, measured in FEET) that we would expect with our cameras:

NOTE: For the table below assume the subject is 10 FEET away from the camera :

LENS (mm)	Horizontal View (FEET)	Vertical View (FEET)
3.6	13.3	10
4.3	11.2	8.4
6	8	6
8	6	4.5
12	4	3
16	3	2.3

The standard lens we are now using is 4.3mm. Keep in mind: the wider the *Field of View*, the more "fish-eye" effect that you have, meaning distortion in the corners and edges. Also, a particular subject would appear to be smaller, as in the side-mirror of a car.

FOR OUR STANDARD 4.3MM LENS, THE HORIZONTAL FIELD OF VIEW IS SLIGHTLY MORE THAN THE DISTANCE FROM THE SUBJECT.

Installation of a different lens requires "Special Order" Terms, increased lead-time, and extra cost for procurement, installation, and focusing. Cost is approximately US\$ 100.00 per lens, if done at time of original build.

All of these lenses are fixed focus. Focusing CANNOT be adjusted in the field, it must be done at our factory. There are limits as to how close to the camera the lens can be focused. And the closer to the camera the lens is focused, the more that *distant focus* is degraded. For example, we focus our standard 4.3mm lens from 6 inches to infinity. It can be focused as close as 3 inches, but then objects further than a foot away start to become out of focus.

So when ordering a "Special Order" lens, be sure to tell us at what distance you would like focusing optimized. And be sure to allow leeway when selecting your lens and focusing.