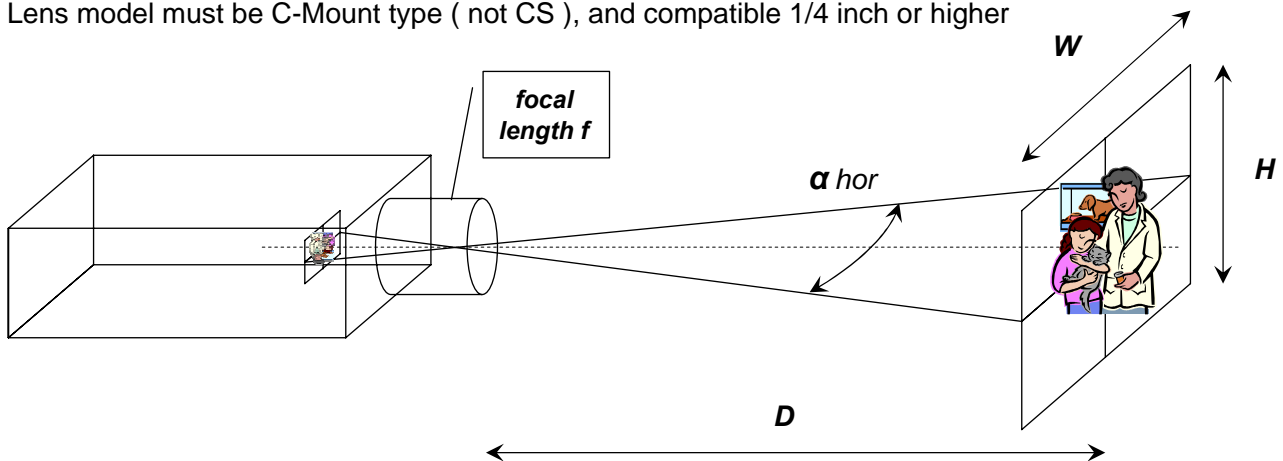


Selecting a lens for unibrain Fire-i400 camera

Lens model must be C-Mount type (not CS), and compatible 1/4 inch or higher



Lens focal length (see note 1)	Horizontal viewing angle	Vertical viewing angle	Diagonal viewing angle	Size of the reality for $D = 0,5$ m (see note 2)		Size of the reality for $D = 5$ m	
				f	α_{hor}	α_{vert}	α_{diag}
(mm)	(°)	(°)	(°)	(m)	(m)	(m)	(m)
2,00	83,72	67,80	96,48	0,896	0,672	8,96	6,72
3,00	61,70	48,26	73,49	0,597	0,448	5,97	4,48
4,00	48,26	37,14	58,50	0,448	0,336	4,48	3,36
6,00	33,26	25,25	40,94	0,299	0,224	2,99	2,24
8,00	25,25	19,07	31,28	0,224	0,168	2,24	1,68
12,00	16,99	12,78	21,15	0,149	0,112	1,49	1,12
16,00	12,78	9,60	15,94	0,112	0,084	1,12	0,84
25,00	8,20	6,15	10,24	0,072	0,054	0,72	0,54
35,00	5,86	4,40	7,32	0,051	0,038	0,51	0,38
50,00	4,11	3,08	5,13	0,036	0,027	0,36	0,27
75,00	2,74	2,05	3,42	0,024	0,018	0,24	0,18
100,00	2,05	1,54	2,57	0,018	0,013	0,18	0,13

Note 1 : exact focal length depends on available models from lens manufacturers

Note 2 : each lens has a minimum object distance, that may be longer than 0,5 m