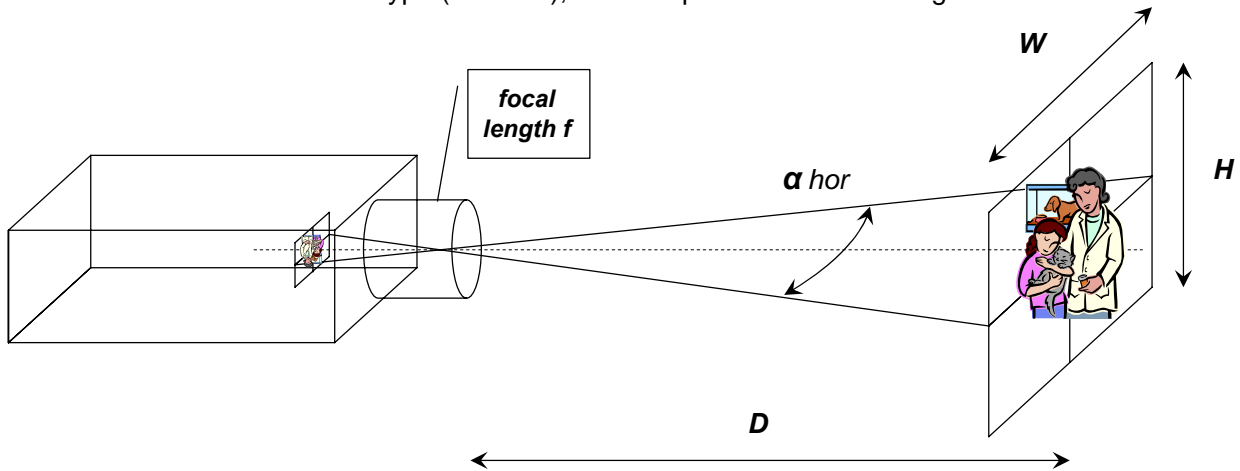


## Selecting a lens for **SONY XCD-V50** camera

Lens model must be C-Mount type ( not CS ), and compatible 1/3 inch or higher



$f$ (mm)	$\alpha_{hor}$ (°)	$\alpha_{vert}$ (°)	$\alpha_{diag}$ (°)	$W$ (m)	$H$ (m)	$W$ (m)	$H$ (m)
2.00	101.28	84.85	113.45	1.219	0.914	12.19	9.14
3.00	78.21	62.71	90.90	0.813	0.609	8.13	6.09
4.00	62.73	49.12	74.60	0.610	0.457	6.10	4.57
6.00	44.23	33.88	53.85	0.406	0.305	4.06	3.05
<b>8.00</b>	<b>33.90</b>	<b>25.74</b>	<b>41.71</b>	<b>0.305</b>	<b>0.228</b>	<b>3.05</b>	<b>2.28</b>
<b>12.00</b>	<b>22.97</b>	<b>17.32</b>	<b>28.50</b>	<b>0.203</b>	<b>0.152</b>	<b>2.03</b>	<b>1.52</b>
<b>16.00</b>	<b>17.33</b>	<b>13.03</b>	<b>21.57</b>	<b>0.152</b>	<b>0.114</b>	<b>1.52</b>	<b>1.14</b>
<b>25.00</b>	<b>11.14</b>	<b>8.36</b>	<b>13.90</b>	<b>0.098</b>	<b>0.073</b>	<b>0.98</b>	<b>0.73</b>
35.00	7.97	5.98	9.95	0.070	0.052	0.70	0.52
<b>50.00</b>	<b>5.58</b>	<b>4.19</b>	<b>6.98</b>	<b>0.049</b>	<b>0.037</b>	<b>0.49</b>	<b>0.37</b>
75.00	3.72	2.79	4.65	0.033	0.024	0.33	0.24
100.00	2.79	2.09	3.49	0.024	0.018	0.24	0.18

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