

**Example:**

Horizontal FOV = 25 mm  
 Working Dist. = 570 mm  
**Best Lens:**  
 50 mm plus  
 2 mm Extension Tube

**Directions:**

1. Determine Field-of-View (FOV) in millimeters.
2. Determine working distance in millimeters.
3. Locate FOV in the first column of the table at right.
4. Scan across the row to the working distance closest to desired application.
5. Use the lens size and extension tube indicated for that row.

**Definitions:**

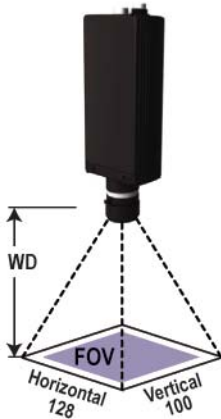
**Field-of-View (FOV):**

The area of the inspection to be captured by the sensor.

**Working Distance (WD):** The distance between the front of the sensor and the target object.

**Extension Tubes:**

Spacers between the lens and the sensor that allow the lens to focus at closer working distances.



Horizontal x Vertical FOV (mm)	Working Distance in Millimeters (+ Extension Tube in Millimeters)							
	Lens Choices							
	4mm	6.5mm	8mm	12mm	16mm	25mm	50mm	75mm
5 X 4							216 20*	311 30*
10 X 8						127 5*	305 10*	433 10*
15 X 12						176 3*	394 5*	555 5*
20 X 16					146 3*	225 2*	483 5*	677 5*
25 X 20				133 2*	178 2*	274 2*	572 2*	799
30 X 23			111 0.5*	157 0.5*	211 2*	322 2*	661	921
40 X 31			143 0.3*	203 0.5*	275 0.5*	420 2*	839	1165
50 X 39			175	250 0.5*	340 0.5*	518	1017	1409
60 X 47	105		207	297 0.5*	405 0.5*	616	1195	1653
70 X 55	121		239	343	470	713	1373	1879
80 X 62	137		270	390	535	811	1551	2141
90 X 70	153		302	437	599	909	1729	2385
100 X 78	169		334	484	664	1006	1907	2629
110 X 86	184	305	366	530	729	1104	2085	2873
120 X 94	200	330	398	577	794	1202	2263	3117
130 X 101	216	356	429	624	859	1299	2441	3361
140 X 109	232	381	461	670	923	1397	2619	3605
150 X 117	248	407	493	717	988	1495	2797	3849
160 X 125	263	433	525	764	1053	1593	2975	4093
170 X 133	279	458	557	810	1118	1690	3153	4337
180 X 140	295	484	588	857	1183	1788	3331	4581
190 X 148	311	509	620	904	1247	1886	3509	4825
200 X 156	327	535	652	951	1313	1983	3687	5069
210 X 164	342	561	684	997	1377	2081	3865	5313
220 X 172	358	586	716	1044	1442	2179	4043	5557
230 X 179	374	612	747	1091	1507	2276	4221	5801
240 X 187	390	637	779	1137	1571	2374	4399	6045
250 X 195	406	663	811	1184	1636	2472	4577	6289
260 X 203	421	689	843	1231	1701	2570	4755	6533
270 X 211	437	714	875	1277	1766	2667	4933	6777
280 X 218	453	740	906	1324	1831	2765	5111	7021
290 X 226	469	765	938	1371	1895	2863	5289	7265
300 X 234	485	791	970	1418	1960	2960	5467	7509
310 X 242	500	817	1002	1464	2025	3058	5645	7753
320 X 250	516	842	1034	1511	2090	3156	5823	7997
330 X 257	532	868	1065	1558	2155	3253	6001	8241
340 X 265	548	893	1097	1604	2219	3351	6179	8485
350 X 273	564	919	1129	1651	2284	3449	6357	8729
360 X 281	579	945	1161	1698	2349	3547	6535	8973
370 X 289	595	970	1193	1744	2414	3644	6713	9217
380 X 296	611	996	1224	1791	2479	3742	6891	9461
390 X 304	627	1021	1256	1838	2543	3840	7069	9705
400 X 312	643	1047	1288	1884	2608	3938	7247	9949