

**Example:**

Horizontal FOV = 30 mm  
 Working Dist. = 280 mm  
**Best Lens:**  
 50 mm plus  
 10 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:**

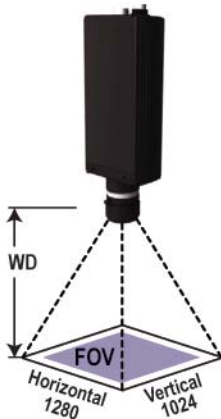
**Field-of-View (FOV):**

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						
	8 mm	12 mm	16 mm	25 mm	35 mm	50 mm	75 mm
5 X 4							
10 X 8							267 45*
15 X 12					107 15*		289 30*
20 X 16					127 10*		318 20*
25 X 20					147 7*		360 12*
30 X 24	47 1*		71 5.00*		159 6*	282 10*	384 10*
40 X 32	53 0.75*		97 2.00*	141 2.00*	187 5*	381 7*	510 2*
50 X 40	65 0.25*	81 1.0*	117 1.25*	174 0.75*	267 2*	381 5*	566
60 X 48	76	98 0.50*	136 0.75*	194 0.25*	294 1*	465 3*	649
70 X 56	86	111 0.25*	150 0.50*	231	342 0.50*	495 2*	732
80 X 64	96	121	169 0.25*	260	356	587 2*	814
90 X 72	106	136	189	290	395	604 1*	897
100 X 80	116	151	207	319	434	672 0.75*	979
110 X 88	126	166	226	348	473	745 0.25*	1062
120 X 96	136	181	244	378	512	781	1144
130 X 104	146	196	263	407	552	843	1227
140 X 112	156	211	282	436	591	905	1310
150 X 120	166	226	300	465	630	967	1392
160 X 128	176	241	319	495	669	1029	1475
170 X 136	186	256	338	524	708	1091	1557
180 X 144	196	271	356	533	747	1153	1640
190 X 152	206	286	375	583	787	1214	1723
200 X 160	216	301	394	612	826	1276	1805
210 X 168	226	316	412	641	865	1338	1888
220 X 176	236	331	431	670	904	1400	1970
230 X 184	246	346	449	700	943	1462	2053
240 X 192	256	361	468	729	982	1524	2135
250 X 200	266	376	487	758	1022	1586	2218
260 X 208	276	391	505	788	1061	1648	2301
270 X 216	286	406	524	817	1100	1709	2383
280 X 224	296	421	543	846	1139	1771	2466
290 X 232	306	436	561	876	1178	1833	2548
300 X 240	316	451	580	905	1217	1895	2631
310 X 248	326	466	599	934	1257	1957	2713
320 X 256	336	481	617	963	1296	2019	2796
330 X 264	346	496	636	993	1335	2081	2879
340 X 272	356	511	654	1022	1374	2143	2961
350 X 280	366	526	673	1051	1413	2205	3044
360 X 288	376	541	692	1081	1452	2266	3126
370 X 296	386	556	710	1110	1492	2328	3209
380 X 304	396	571	729	1139	1531	2390	3291
390 X 312	406	586	748	1168	1570	2452	3374
400 X 320	416	601	766	1198	1609	2514	3457