

## UM06 Magnification Table: Lens 4x and 10 x, working distance, FOVs and magnifications

### Object lens 4X, focus distance from 1.95cm to 22cm (0.767 to 8.66 inch)

Object lens 4X on 21.5" screen								
Sensor position	1	2	3	4	5	6	7	8
Distance	22.0	15.2	9.70	7.35	5.75	4.75	4.15	3.65
F,S FOV	27.0	18.4	11.9	9.02	7.10	5.88	5.05	4.40
C FOV	19.9	13.6	8.80	6.67	5.25	4.35	3.73	3.25
F Magnification	<b>13</b>	20	30	40	50	61	71	81
S Magnification	17	26	40	53	67	81	95	109
C Magnification	23	34	54	70	90	109	127	145
Sensor position	9	10	11	12	13	14	15	unit
Distance	3.30	2.85	2.65	2.45	2.30	2.10	1.95	cm
F,S FOV	3.91	3.50	3.19	2.91	2.68	2.48	2.34	mm
C FOV	2.89	2.59	2.36	2.15	1.98	1.83	1.73	mm
F Magnification	92	102	112	123	134	145	154	X
S Magnification	122	137	150	164	179	193	205	X
C Magnification	165	183	201	221	241	261	<b>277</b>	X

### Object lens 10X, focus distance from 4.5mm to 7.7mm (0.177 to 0.303 inch)

Object lens 10X on 21.5" screen								
Sensor position	1	2	3	4	5	6	7	8
Distance	7.70	7.10	6.70	6.40	6.10	5.89	5.60	5.41
F,S FOV	1.39	1.30	1.21	1.14	1.07	1.01	0.96	0.91
C FOV	1.02	0.96	0.89	0.84	0.79	0.74	0.71	0.67
F Magnification	<b>260</b>	279	297	318	336	360	378	395
S Magnification	346	371	395	423	447	479	503	526
C Magnification	468	502	534	572	604	648	680	711
Sensor position	9	10	11	12	13	14	15	unit
Distance	5.27	5.10	4.96	4.84	4.73	4.62	4.51	mm
F,S FOV	0.87	0.83	0.79	0.76	0.73	0.70	0.68	mm
C FOV	0.64	0.61	0.58	0.56	0.54	0.52	0.50	mm
F Magnification	413	439	455	480	493	145	154	X
S Magnification	550	585	606	639	657	694	705	X
C Magnification	743	790	819	964	887	937	<b>952</b>	X