



DEFLEX® LENSES

Selecting the right lens can optimise accuracy by maximising the number of available pixels for the measured area.



DEFLEX® LENS08



(SUPPLIED) LENS12



DEFLEX® LENS16



DEFLEX® LENS25



DEFLEX® LENS35



DEFLEX® LENS50



DEFLEX® LENS75

* Supplied as standard

PRODUCT REFERENCE	FOCAL LENGTH [MM]	SENSOR FORMAT	MINIMAL FOCUSING DISTANCE [MM]	F-STOP	DIMENSIONS [MM]	WEIGHT [G]	FILTER SIZE	MOUNT
Deflex® LENS08	8	2/3"	100	2.8	Ø32 x 35.5	60	M30.5x0.5	C
-	12*		100		Ø29 x 43.5	60	M27x0.5	
Deflex® LENS16	16		250		Ø29 x 29	40	M27x0.5	
Deflex® LENS25	25		200		Ø29 x 31.5	40	M27x0.5	
Deflex® LENS35	35		250		Ø29 x 38.5	50	M27x0.5	
Deflex® LENS50	50		300		Ø29 x 56	65	M27x0.5	
Deflex® LENS75	75		400		Ø36 x 75	100	M34x0.5	

ISO 9513 class	Field of View [mm]		Working Distance [mm]						
	TECQUIPMENT DIC 2D		LENS FOCAL LENGTH [MM]						
	HEIGHT	WIDTH	08	12	16	25	35	50	75
0.5	190	125	220	344	460	743	1080	1583	2275
1	380	250	473	718	961	1512	2159	3133	4572
2	760	505	980	1476	1964	3049	4318	6234	9166

ASTM E83 class	Field of View [m]		Working Distance [m]						
	TECQUIPMENT DIC 2D		LENS FOCAL LENGTH [M]						
	HEIGHT	WIDTH	08	12	16	25	35	50	75
A	3.860	2.580	5.112	7.575	10.148	15.559	21.932	31.531	46.638
B1	19.300	12.900	25.692	37.998	50.910	78.081	109.661	157.526	233.277
B2	38.600	25.800	51.417	76.027	101.862	156.188	219.321	315.020	465.573
C	193.000	129.000	257.217	380.257	509.478	781.045	1096.607	1574.970	2332.963



LENS COMPARISON

The chart below details which lenses are suitable for which TecQuipment products along with the approximate optimum working distances for each lens.

LENS COMPARISON TABLE										
PRODUCT CODE	RECOMMENDED LENSES	FIELD OF VIEW		OPTIMUM WORKING DISTANCE FOR EACH LENS (CM)						
		HEIGHT (MM)	WIDTH (MM)	8 MM LENS	12 MM LENS	16 MM LENS	25 MM LENS	35 MM LENS	50 MM LENS	75 MM LENS
STS4	8, 12, 16	400	600	65	100	130	205	285	405	610
STS10	8, 12, 16, 25	333	500	55	85	110	170	240	340	510
STS11	8, 12, 16, 25	333	500	55	85	110	170	240	340	510
STS14	8, 12, 16	480	720	80	120	160	245	340	490	730
STS15	8, 12, 16	500	750	85	125	165	255	355	505	760
STS16	12, 16, 25, 35	200	300	35	50	70	105	145	205	310
STS18	8, 12, 16, 25, 35	250	375	45	65	85	130	180	260	385
STS19	8, 12, 16, 25	333	500	55	85	110	170	240	340	510
SM1000	12, 16, 25, 35,	200	300	35	50	70	105	145	205	310
SM1002	25, 35, 50, 75	100	150	20	25	35	55	75	105	160
SM1004	8	900	1350	145	220	290	455	635	910	1360
SM1006	12, 16, 25, 35, 50	150	225	25	40	50	80	110	155	235
TM161 and 164-167	8, 12, 16	600	1000	100	150	195	305	425	605	910
TM1021V	8, 12, 16, 25	300	450	50	75	100	155	215	305	460
TE16	12, 16, 25, 35	333	500	55	85	110	170	240	340	510
TM1016	8, 12, 16	533	800	90	130	175	270	380	540	805
MF40 MkII	8, 12, 16, 25, 35	250	375	45	65	85	130	180	255	385

NOTE: It is possible to get good data with any combination of the product and lenses. The boxes shaded green are however recommended.