SPECIAL OPTICS
A NAVITAR COMPANY

Pre-Engineered High NA Objective Lenses

Customer	Lens Type	Part Number	NA	F#	Aperture	EFL	Working Distance	FOV	Housing	Application
BSCI	Dry	54-20-60@633&1550nm	0.17	3.00	20	60	55mm Air + 3mm Bk7	1.5	Stainless	Quantum Physics
U of Stuttgart	Dry	54-17-25@532&421.3nm	0.34	1.47	17	25	19mm Air + 6.35mm Silica	0.06	Ultem	Ultra Cold Atom Reseach
Uni-kl.de	Dry	54-22-30@767-852nm	0.37	1.36	22	30	21mm Air + 5mm Silica	0.1	Stainless	Ultra Cold Atom Reseach
GWDG.DE	Water	54-20-25@532nm	0.40	1.25	20	25	13mm water	0.18	Stainless	Physics Research
U of Arizona	Dry	54-18-21@633nm	0.43	1.17	18	21	34.5mm Air	0.15	Stainless	Industrial
Excelsius	Dry	55-S10-3@1030nm	0.44	1.14	8.75	10	5mm Air	2.8	Stainless	Life Science
Uni-frankfurt	Dry	54-3.5-4@325nm	0.44	1.14	3.5	4	8.5mm Air	0.25	Stainless	Physics Research
MIT Physics	Dry	54-36-41@671nm	0.44	1.14	36	41	25.83mm Air + 6.1mm Silica	0.4	Stainless	Physics Research
MAX Planck	Dry	54-28-28@671&1064nm	0.50	1.00	28	28	16mm Air + 4mm Silica	0.15	Ultem	Quantum Physics
MAX Planck	Dry	54-25-25@532&767&780&1064nm	0.50	1.00	25	25	12mm Air + 5mm Silica	0.15	Ultem	Quantum Physics
HHMI	Water	54-19-19@800-1200nm	0.50	1.00	19	19	5.8mm water	1.4	Stainless	Life Science
U of Chicago	Dry	54-26-26@852nm	0.50	1.00	26	26	19mm Air + 6.336 Silica	0.15	Ultem	Ultra Cold Atom Reseach
Microcosm	Dry	54-10-10@266nm	0.50	1.00	10	10	1mm Air	0.7	Stainless	Industrial
Controlled Semi	Dry	54-5-5@266&488nm	0.50	1.00	5	5	4.5mm Air + 0.17mm Silica	0.09	Stainless	Industrial
USTC	Dry	54-26-25@780nm	0.52	0.96	26	25	19mm Air +7.1mm silica+1.9mm H-K9L	0.35	Ultem	Ultra Cold Atom Reseach
Monash.edu	Dry	54-33-31@767&780nm	0.53	0.94	33	31	15.5mm Air + 4mm Borofloat	0.1	Ultem	Quantum Physics
Microcosm	Dry	54-6-5@266nm	0.60	0.83	6	5	0.6mm Air	0.4	Stainless	Industrial
MAX Planck	Dry	54-36-30@767&589nm	0.60	0.83	36	30	18mm Air+4mm Silica	0.15	Ultem	Physics Research
U of Toronto	Dry	54-4-3.3 @ 405 nm	0.61	0.83	4	3.3	3.5mm Air + 0.2mm Sapphire	0.2	Stainless	Ultra Cold Atom Reseach
U of Hamberg	Dry	54-33-26@532-770nm	0.63	0.79	33	26	6.5mm Air+4mm Silica	0.15	Ultem	Quantum Physics
Excelsius	Dry	55-S5-0.4@1064nm	0.65	0.77	6.5	5	4.5mm Air	0.4	Stainless	Life Science
Allen Institute	Water	54-68-50@900nm	0.68	0.74	68	50	11.35mm water	5	Stainless	Life Science
HHMI	Water	54-10-7 @ 488-910 nm	0.71	0.70	10	7	3.6mm water	0.1	Stainless	Life Science
U of Bonn	Dry	54-25-17@589&670&760nm	0.74	0.68	25	17	3mm Air+3.5mm Silica	0.25	Ultem	Physics Research
Till	Water	54-3.3-1.8@VIS	0.92	0.55	3.3	1.8	0.486 typeA+0.6mm sapphire+0.25mm seawater	0.15	Stainless	Industrial
Ultra Point	Dry	54-3.1-1.62@244nm	0.96	0.52	3.1	1.62	0.3mm Air	0.13	Stainless	Industrial
Stanford U	Water	54-23-12@1-1.07nm	0.96	0.52	23	12	1.5mm water	0.4	Stainless	Life Science
HHMI	Oil	54-10.6-5.3@480-700nm	1.00	0.50	10.6	5.3	3mm Oil	0.1	Stainless	Life Science