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**TECHSPEC® 12mm Diameter VIS-NIR Coated, PCX Lens Kit**



Stock #48-162 [CONTACT US](#)

- 1 + S\$680<sup>00</sup>

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**General**

13.00 **Number of Lenses:**

Optical Kit **Type:**

See Technical Information tab for focal lengths of included lenses. **Note:**

PCX Lens Kit **Contents of Kit:**

**Physical & Mechanical Properties**

Diameter (mm):  
12.00 +0.00/-0.10

Bevel:  
Protective as needed

## Optical Properties

Coating:  
VIS-NIR (400-1000nm)

Coating Specification:  
R<sub>abs</sub> ≤ 0.25% @ 880nm  
R<sub>avg</sub> ≤ 1.25% @ 400 - 870nm  
R<sub>avg</sub> ≤ 1.25% @ 890 - 1000nm

Wavelength Range (nm):  
400 - 1000

## Regulatory Compliance

Certificate of Conformance:  
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## Product Details

- Simple Lens Kits Include PCX, DCX, PCV, and DCV Lenses
- Kits Available for 12mm and 25mm Diameter Lenses
- Uncoated or BBAR Coating Options
- Note: Potential change of packaging

TECHSPEC® Plano-Convex (PCX) and Simple Lens Kits are an ideal complement to any engineering or R&D laboratory. Offered with a variety of coating options, each lens kit contains our highest quality optics with various effective focal lengths. Available uncoated or with broadband anti-reflection (BBAR) coating options. Simple lens kits feature a selection of plano-convex (PCX), double-convex (DCX), plano-concave (PCV), and double-concave (DCV) lenses. These kits are available with 12 or 25mm diameters.

**Note:** Due to supply chain issues, our kits may be delivered with an alternative packaging solution in place of a wooden box. For any questions, please contact [kits@edmundoptics.com](mailto:kits@edmundoptics.com).

## Technical Information

Lens Specifications		Coating Options				
Effective Focal Length EFL	f/#	Uncoated (#65-576)	MgF <sub>2</sub> (#54-672)	VIS 0° (#48-161)	VIS-NIR (#48-162)	NIR I (#65-577)
12.00mm	1.00	<a href="#">#45-083</a>	<a href="#">#45-084</a>	<a href="#">#47-329</a>	<a href="#">#45-480</a>	<a href="#">#48-732</a>
15.00mm	1.25	<a href="#">#45-302</a>	<a href="#">#45-303</a>	<a href="#">#47-330</a>	<a href="#">#45-481</a>	<a href="#">#48-733</a>
18.00mm	1.50	<a href="#">#32-006</a>	<a href="#">#32-007</a>	<a href="#">#47-331</a>	<a href="#">#45-482</a>	<a href="#">#48-734</a>
24.00mm	2.00	<a href="#">#32-011</a>	<a href="#">#31-855</a>	<a href="#">#47-332</a>	<a href="#">#45-483</a>	<a href="#">#48-735</a>
30.00mm	2.50	<a href="#">#45-085</a>	<a href="#">#45-086</a>	<a href="#">#47-333</a>	<a href="#">#45-484</a>	<a href="#">#48-736</a>
36.00mm	3.00	<a href="#">#33-352</a>	<a href="#">#33-353</a>	<a href="#">#33-354</a>	<a href="#">#33-355</a>	<a href="#">#33-356</a>
42.00mm	3.50	<a href="#">#45-123</a>	<a href="#">#45-124</a>	<a href="#">#47-335</a>	<a href="#">#45-485</a>	<a href="#">#48-738</a>
48.00mm	4.00	<a href="#">#32-852</a>	<a href="#">#32-853</a>	<a href="#">#47-336</a>	<a href="#">#45-486</a>	<a href="#">#48-739</a>
54.00mm	4.50	<a href="#">#45-304</a>	<a href="#">#45-305</a>	<a href="#">#47-337</a>	<a href="#">#45-487</a>	<a href="#">#48-740</a>
60.00mm	5.00	<a href="#">#32-854</a>	<a href="#">#32-855</a>	<a href="#">#47-338</a>	<a href="#">#45-488</a>	<a href="#">#48-741</a>
72.00mm	6.00	<a href="#">#45-125</a>	<a href="#">#45-126</a>	<a href="#">#47-339</a>	<a href="#">#45-705</a>	<a href="#">#48-742</a>
84.00mm	7.00	<a href="#">#32-856</a>	<a href="#">#32-857</a>	<a href="#">#47-340</a>	<a href="#">#45-489</a>	<a href="#">#48-743</a>
100.00mm	8.33	<a href="#">#45-274</a>	<a href="#">#45-275</a>	<a href="#">#47-341</a>	<a href="#">#45-490</a>	<a href="#">#48-744</a>

Lens Specifications		Coating Options				
Effective Focal Length EFL	f/#	Uncoated (#65-578)	MgF <sub>2</sub> (#48-610)	VIS 0° (#48-611)	VIS-NIR (#48-612)	NIR I (#65-579)
25.00mm	1.00	<a href="#">#45-097</a>	<a href="#">#45-098</a>	<a href="#">#47-342</a>	<a href="#">#45-504</a>	<a href="#">#48-766</a>
30.00mm	1.20	<a href="#">#45-364</a>	<a href="#">#45-363</a>	<a href="#">#47-343</a>	<a href="#">#45-505</a>	<a href="#">#48-767</a>
35.00mm	1.40	<a href="#">#45-145</a>	<a href="#">#45-146</a>	<a href="#">#47-344</a>	<a href="#">#45-506</a>	<a href="#">#48-768</a>
40.00mm	1.60	<a href="#">#45-278</a>	<a href="#">#45-279</a>	<a href="#">#47-345</a>	<a href="#">#45-507</a>	<a href="#">#48-769</a>
50.00mm	2.00	<a href="#">#32-477</a>	<a href="#">#32-478</a>	<a href="#">#47-346</a>	<a href="#">#45-508</a>	<a href="#">#48-770</a>
60.00mm	2.40	<a href="#">#45-127</a>	<a href="#">#45-128</a>	<a href="#">#47-347</a>	<a href="#">#45-509</a>	<a href="#">#48-771</a>
75.00mm	3.00	<a href="#">#32-479</a>	<a href="#">#32-480</a>	<a href="#">#47-348</a>	<a href="#">#45-510</a>	<a href="#">#48-772</a>
100.00mm	4.00	<a href="#">#32-481</a>	<a href="#">#32-482</a>	<a href="#">#47-350</a>	<a href="#">#45-512</a>	<a href="#">#48-774</a>
125.00mm	5.00	<a href="#">#32-861</a>	<a href="#">#32-862</a>	<a href="#">#47-351</a>	<a href="#">#45-513</a>	<a href="#">#48-775</a>
150.00mm	6.00	<a href="#">#32-863</a>	<a href="#">#32-864</a>	<a href="#">#47-352</a>	<a href="#">#45-514</a>	<a href="#">#48-776</a>
175.00mm	7.00	<a href="#">#32-865</a>	<a href="#">#32-866</a>	<a href="#">#47-353</a>	<a href="#">#45-515</a>	<a href="#">#48-777</a>
200.00mm	8.00	<a href="#">#33-358</a>	<a href="#">#33-359</a>	<a href="#">#33-360</a>	<a href="#">#33-361</a>	<a href="#">#33-362</a>
400.00mm	16.00	<a href="#">#33-364</a>	<a href="#">#33-365</a>	<a href="#">#33-366</a>	<a href="#">#33-367</a>	<a href="#">#33-368</a>

500.00mm	20.00	#45-280	#45-281	#47-356	#47-387	#48-780
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Lens Specifications		Coating Options				
Effective Focal Length EFL	f/#	405nm V-Coat (#66-117)	532nm V-Coat (#66-118)	633nm V-Coat (#66-119)	785nm V-Coat (#66-120)	1064nm V-Coat (#66-121)
25.00mm	1.00	#65-464	#65-484	#65-504	#65-524	#65-544
50.00mm	2.00	#65-465	#65-485	#65-505	#65-525	#65-545
75.00mm	3.00	#65-466	#65-486	#65-506	#65-526	#65-546
100.00mm	4.00	#65-467	#65-487	#65-507	#65-527	#65-547
125.00mm	5.00	#65-468	#65-488	#65-508	#65-528	#65-548

Lens Specifications			Coating Options				
Effective Focal Length EFL	f/#	Lens Type	Uncoated (#65-580)	MgF <sub>2</sub> (#55-249)	VIS 0° (#48-163)	VIS-NIR (#48-539)	NIR I (#66-109)
12.00mm	1.00	PCX	#45-083	#45-084	#47-329	#45-480	#48-732
24.00mm	2.00	PCX	#32-011	#31-855	#47-332	#45-483	#48-735
36.00mm	3.00	PCX	#33-352	#33-353	#33-354	#33-355	#33-356
48.00mm	4.00	PCX	#32-852	#32-853	#47-336	#45-486	#48-739
60.00mm	5.00	PCX	#32-854	#32-855	#47-338	#45-488	#48-741
12.00mm	1.00	DCX	#32-014	#32-015	#47-358	#45-872	#49-474
24.00mm	2.00	DCX	#33-388	#33-389	#33-390	#33-391	#33-392
36.00mm	3.00	DCX	#32-869	#32-870	#47-362	#45-876	#49-478
48.00mm	4.00	DCX	#45-159	#45-160	#47-363	#45-877	#49-479
72.00mm	6.00	DCX	#32-871	#32-872	#47-364	#45-878	#49-480
-12.00mm	-1.00	PCV	#45-014	#45-015	#47-905	#45-916	#49-525
-24.00mm	-2.00	PCV	#45-016	#45-017	#47-906	#45-917	#49-528
-48.00mm	-4.00	PCV	#45-018	#45-019	#47-907	#45-918	#49-530
-12.00mm	-1.00	DCV	#32-988	#32-989	#47-915	#45-928	#49-546

Lens Specifications			Coating Options				
Effective Focal Length EFL	f/#	Lens Type	Uncoated (#66-110)	MgF <sub>2</sub> (#52-305)	VIS 0° (#48-613)	VIS-NIR (#48-614)	NIR I (#66-111)
25.00mm	1.00	PCX	#45-097	#45-098	#47-342	#45-504	#48-766
50.00mm	2.00	PCX	#32-477	#32-478	#47-346	#45-508	#48-770
75.00mm	3.00	PCX	#32-479	#32-480	#47-348	#45-510	#48-772
100.00mm	4.00	PCX	#32-481	#32-482	#47-350	#45-512	#48-774
125.00mm	5.00	PCX	#32-861	#32-862	#47-351	#45-513	#48-775
150.00mm	6.00	PCX	#32-863	#32-864	#47-352	#45-514	#48-776
175.00mm	7.00	PCX	#32-865	#32-866	#47-353	#45-515	#48-777
200.00mm	8.00	PCX	#33-358	#33-359	#33-360	#33-361	#33-362
400.00mm	16.00	PCX	#33-364	#33-365	#33-366	#33-367	#33-368
25.00mm	1.00	DCX	#32-489	#32-490	#47-365	#45-887	#49-489
50.00mm	2.00	DCX	#32-624	#32-625	#47-368	#45-890	#49-492
75.00mm	3.00	DCX	#32-626	#32-627	#47-369	#45-891	#49-493
100.00mm	4.00	DCX	#32-717	#32-718	#47-370	#45-892	#49-494
125.00mm	5.00	DCX	#32-873	#32-874	#47-371	#45-893	#49-495
150.00mm	6.00	DCX	#32-875	#32-876	#47-372	#45-894	#49-496
175.00mm	7.00	DCX	#32-877	#32-878	#47-373	#45-895	#49-497
200.00mm	8.00	DCX	#33-394	#33-395	#33-396	#33-397	#33-398
-25.00mm	-1.00	PCV	#45-030	#45-031	#47-911	#45-922	#49-534
-50.00mm	-2.00	PCV	#45-028	#45-029	#47-912	#45-923	#49-536
-100.00mm	-4.00	PCV	#45-026	#45-027	#47-913	#45-924	#49-537
-25.00mm	-1.00	DCV	#32-992	#32-993	#47-917	#45-930	#49-550
-50.00mm	-2.00	DCV	#32-996	#32-997	#47-918	#45-931	#49-551
-100.00mm	-4.00	DCV	#32-994	#32-995	#47-919	#45-932	#49-552

Lens Specifications		Coating Options				
Effective Focal Length EFL	f/#	Uncoated (#66-112)	UV-AR (#66-113)	UV-VIS (#66-114)	VIS 0° (#66-115)	VIS-NIR (#66-116)
38.00mm	1.52	#48-273	#48-283	#48-821	#48-961	#63-806
50.00mm	2.00	#48-274	#48-284	#48-822	#48-962	#63-807
60.00mm	2.40	#48-670	#48-677	#48-823	#48-963	#63-808

75.00mm	3.00	#48-275	#48-285	#48-824	#48-964	#63-809
100.00mm	4.00	#48-276	#48-286	#48-825	#48-965	#63-810
125.00mm	5.00	#48-277	#48-287	#48-826	#48-966	#63-811
150.00mm	6.00	#48-278	#48-288	#48-827	#48-967	#63-812
175.00mm	7.00	#48-279	#48-289	#48-828	#48-968	#63-813
200.00mm	8.00	#48-280	#48-290	#48-829	#48-969	#63-814
250.00mm	10.00	#48-281	#48-291	#48-830	#48-970	#63-815
400.00mm	16.00	#48-282	#48-292	#48-831	#48-971	#63-816

## Coating Curves

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