

For current pricing, please see our website.



Specs Updated
7-11-13 - LF

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Viewing Cards

- Detects Beams as Low as 1 nW/cm^2
- Minimal Optical Charging
- Free of Hazardous Reflections
- Cards for the UV, Visible, and IR

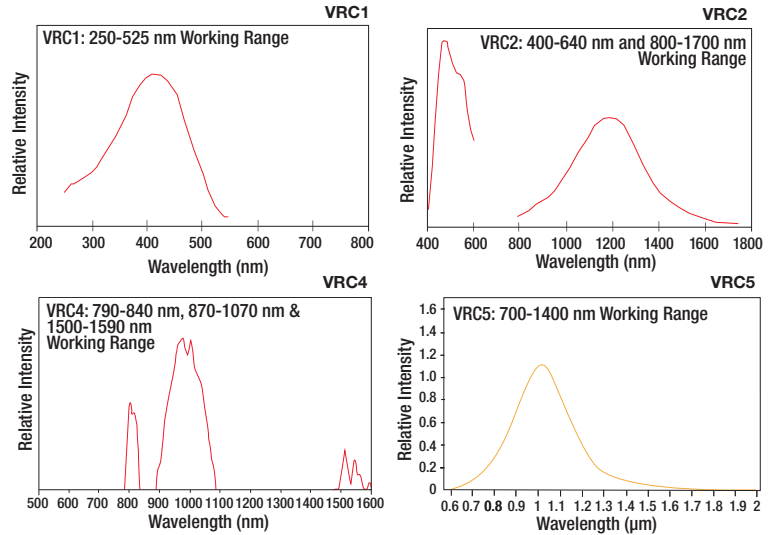
Thorlabs offers viewing cards for UV, visible, and IR beams. As UV and IR light are invisible to the human eye, these cards emit a visible spot at the location of the beam. They are commonly used for beam alignment and when collimating a laser beam.



VRC1, VRC2, and VRC4

The cards are made from a durable plastic with a photosensitive region adhered to the front surface of the card. The active region on the VRC1 and VRC4 is fast charging; hence, emission is persistent even when used in CW applications in a darkened room. The 1.25" x 2.1" (31.8 mm x 54 mm) detection region on these cards extends all the way to the edge of the card in order to facilitate its use during alignment procedures.

When the card is used in a darkened room with a sufficiently bright source, the fluorescence from the activated photosensitive region can be seen through the back of the card. This is especially useful for aligning the overlap of two beams. The VRC2 is similar to the VRC4 and VRC1 except that it requires the user to charge the card with light from a visible light source.



VRC5

Our VRC5 IR viewing card has a photosensitive region sandwiched between two plastic layers. The card has a smaller detection region than our other viewing cards but offers a broader working range.

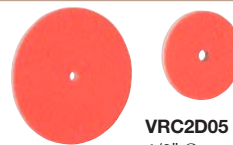
ITEM #	\$	£	€	RMB	WORKING RANGE (nm)	ACTIVE AREA
VRC1	\$ 73.00	£ 52.56	€ 63.51	¥ 581.81	250 - 540 nm	1.25" x 2.1" (31.8 mm x 54 mm)
VRC2	\$ 73.00	£ 52.56	€ 63.51	¥ 581.81	400 - 640 nm, 800 - 1700 nm	1.25" x 2.1" (31.8 mm x 54 mm)
VRC4	\$ 73.00	£ 52.56	€ 63.51	¥ 581.81	790 - 840 nm, 870 - 1070 nm, 1500 - 1590 nm	1.25" x 2.1" (31.8 mm x 54 mm)
VRC5	\$ 114.00	£ 82.08	€ 99.18	¥ 908.58	700 - 1400 nm	0.75" x 1.5" (19.1 mm x 38.1 mm)

IR Alignment Disks



- Use with $\text{Ø}1/2"$ or $\text{Ø}1"$ Optic Mounts
- $\text{Ø}1.5 \text{ mm}$ Alignment Hole

VRC2D1 Shown with LMR1 and Post (Sold Separately)



VRC2D05 1/2" Outer Diameter
VRC4D05 1" Outer Diameter

These IR alignment disks are ideally used as drop-in tools to simplify active alignment of IR and visible setups. Available in $\text{Ø}1/2"$ or $\text{Ø}1"$ sizes, these drop-in disks align beams to the optical axis of our mounts or lens tubes. They are made of slow-fading phosphor that is active in the IR. See graphs above for absorption spectrums.

ITEM #	SIZE	\$	£	€	RMB	DESCRIPTION
VRC2D05	$\text{Ø}1/2"$	\$ 21.00	£ 15.12	€ 18.27	¥ 167.37	$\text{Ø}1/2"$ IR Alignment Disk, Working Ranges: 400 - 640 nm and 800 - 1700 nm
VRC2D1	$\text{Ø}1"$	\$ 32.50	£ 23.40	€ 28.28	¥ 259.03	$\text{Ø}1"$ IR Alignment Disk, Working Ranges: 400 - 640 nm and 800 - 1700 nm
VRC4D05	$\text{Ø}1/2"$	\$ 21.00	£ 15.12	€ 18.27	¥ 167.37	$\text{Ø}1/2"$ Enhanced Alignment Disk, Working Ranges: 790 - 840 nm, 870 - 1070 nm, and 1500 - 1590 nm
VRC4D1	$\text{Ø}1"$	\$ 32.50	£ 23.40	€ 28.28	¥ 259.03	$\text{Ø}1"$ Enhanced Alignment Disk, Working Ranges: 790 - 840 nm, 870 - 1070 nm, and 1500 - 1590 nm

Threaded IR Viewing/Alignment Disk

- Made with Slow-Fading Phosphor
- RMS or SM1 Threaded
- 400 - 640 nm and 800 - 1700 nm Absorption Bands, see VRC2 Graph Above



ITEM #	CA*	\$	£	€	RMB	DESCRIPTION
VRC2RMS	$\text{Ø}0.70"$	\$ 80.00	£ 57.60	€ 69.60	¥ 637.60	RMS Alignment Disk, Working Ranges: 400 - 640 nm and 800 - 1700 nm
VRC2SM1	$\text{Ø}0.79"$	\$ 76.50	£ 55.08	€ 66.56	¥ 609.71	SM1 Alignment Disk, Working Ranges: 400 - 640 nm and 800 - 1700 nm

*Clear Aperture