

Autotracker Cells (Series 561, 562, and 563)

These cells typically house BBO, KDP, KD*P, or LiNbO3 crystals of either Type I or Type II orientation.

The cells fit into any of the Autotracker that INRAD has manufactured over the years as well as the manually tuned 820-360 gimbal mount.

The 561-044 cell is windowless with the clear aperture set by the size of the crystal. Typically, BBO is housed in this cell with the surfaces of the BBO protected from attack by moisture with a thin dielectric coating.

The 563-1117/UV cell houses either 1 or 2 crystals with a maximum crystal length of 30 mm. The clear aperture is 11 x 17 mm. The cells have fused silica windows that keep the crystal surfaces clean and that seal the water-sensitive crystals against moisture. The windows of the cell, typically, have an AR coating to reduce reflection losses. Please, select the coatings from one of our standard AR Coatings. Typically, Type I KDP or Type II KD*P crystals are housed in this cell.

The 563-1117/IR cell houses either 1 or 2 crystals with a maximum crystal length of 30 mm. The clear aperture is 11 x 17 mm. The cells have calcium fluoride windows that keep the crystal surfaces clean and that seal the water-sensitive crystals against moisture. The windows of the cell are un-coated. Typically, Type I LiNbO3 crystals are housed in this cell.

Please note that the 562-126/UV and 562-126/IR cells have become obsolete. They are no longer offered.

Crystal Cells for Autotracker and 820-360 Gimbal		
Model	Description	Notes
561-044	Crystal cell, without windows. Clear aperture set by crystal size.	Used in Autotracker
563-1117/UV	Crystal cell for 1 to 2 crystals, with AR coated fused silica windows. Clear aperture 11 x 17 mm	Used in Autotracker, select standard coatings for windows
563-1117/IR	Crystal cell for 1 to 2 crystals, with uncoated CaF ₂ windows. Clear aperture 11 x 17 mm	Used in Autotracker
* Obsolete size cell — sold only as replacement		