

NV Diamond Anvil

Anvils for high-pressure experimental research.

ViQium™ NV Diamond Anvils feature direct, high-resolution pressure sensing with in-situ magnetic field measurement and multi-physical-field detection. Used for extreme high-pressure magnetism studies, geoscience and planetary research, and new-state-of-matter exploration.



Product Parameters

Quantum Performance	Values
Center Type	Ensemble
NV Density	~ 1 – 2 ppm
Notes: NV center density measured using ODMR system.	

Thermal Properties	Values
Thermal Conductivity	> 2000 Wm ⁻¹ K ⁻¹
CTE (300 K)	1.0 ± 0.1 ppm · K ⁻¹
CTE (1000 K)	4.4 ± 0.1 ppm · K ⁻¹

Geometric Properties	Values
Standard Anvil Face Diameter	300μm, 200μm, 100μm, 50μm, 30μm, 20μm
Standard Anvil Height	~ 2.35 mm
Surface Roughness (Ra, nm)	Ra < 5 nm

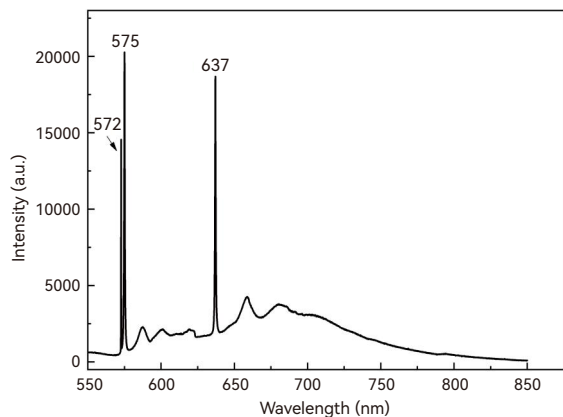


Fig 1. Fluorescence Spectrum of NV Diamond Anvil

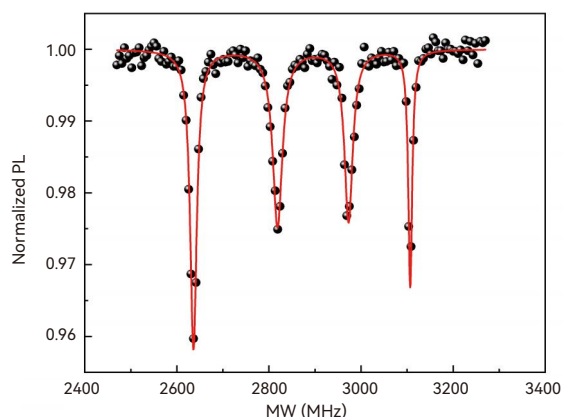


Fig 2. Continuous-Wave ODMR Spectrum of NV Diamond Anvil

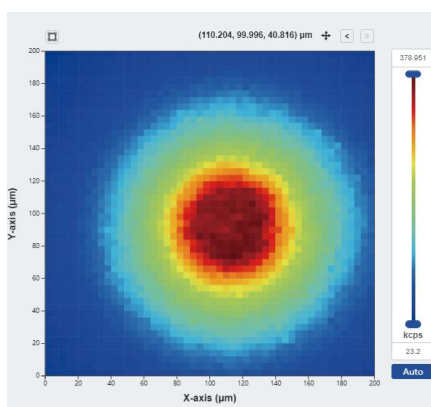


Fig 3. Confocal Fluorescence Image of NV Diamond Anvil

ViQium™ NV Diamond Anvil

No.	Product Code	Anvil Face (μm)	Crystal Orientation
1	NV-ANVIL-100-20	~ 20	<100>
2	NV-ANVIL-100-30	~ 30	<100>
3	NV-ANVIL-100-50	~ 50	<100>
4	NV-ANVIL-100-100	~ 100	<100>
5	NV-ANVIL-100-200	~ 200	<100>
6	NV-ANVIL-100-300	~ 300	<100>
7	NV-ANVIL-111-20	~ 20	<111>
8	NV-ANVIL-111-30	~ 30	<111>
9	NV-ANVIL-111-50	~ 50	<111>
10	NV-ANVIL-111-100	~ 100	<111>
11	NV-ANVIL-111-200	~ 200	<111>
12	NV-ANVIL-111-300	~ 300	<111>

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