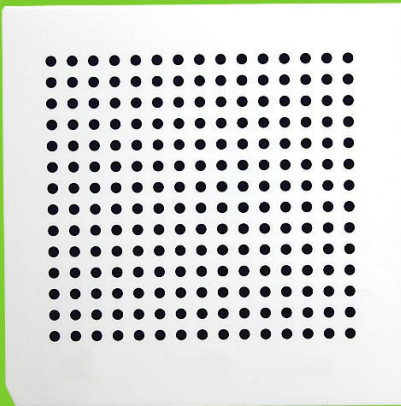


pvCal Dot Ceramic

Calibration targets dot pattern for accurate & precise measurements, compatible to OpenCV, Sherlock, etc.



Chrome pattern (blue matte) printed on ceramic, ideal for front light applications

White ceramic substrate 1.0 mm thick

- surface roughness 0.3-0.4 μm
- surface flatness: <100 mm: 10-30 μm , 100-150 mm: 60-100 μm

Standard coating: blue matte chrome

- reflectivity <5%@632 nm
- coating thickness ~150 nm
- no pinhole bigger than 0.001 mm

Overall accuracy: <100 mm: +/-2 μm , 100-150 mm: +/-3 μm

Dot diameter tolerance: +/-0.001 mm

Dot spacing tolerance: +/-0.001 mm center to center

Thermal expansion coefficient: $7.2 \times 10^{-6} / ^\circ\text{C}$

Accuracy from target edge to pattern: +/-0.05 mm

Dimension & thickness tolerance: +/-0.1 mm

Sharp edges: +/-1° angle

| | | | | | |
|-----------------|-----------|-----------|-------------|-----------|-----------|
| Pattern size mm | 20.1x20.1 | 31.4x31.4 | 35.25x35.25 | 60.5x60.5 | 84.6x84.6 |
| Dot diameter mm | 0.1 | 0.2 | 0.25 | 0.5 | 0.6 |
| Dot array | 101x101 | 79x79 | 71x71 | 61x61 | 71x71 |
| Dot spacing mm | 0.4 | 0.5 | 0.5 | 1.0 | 1.2 |
| Dimensions mm | 30x30 | 38x38 | 50x50 | 76x76 | 100x100 |

Larger dimensions / patterns available on request.