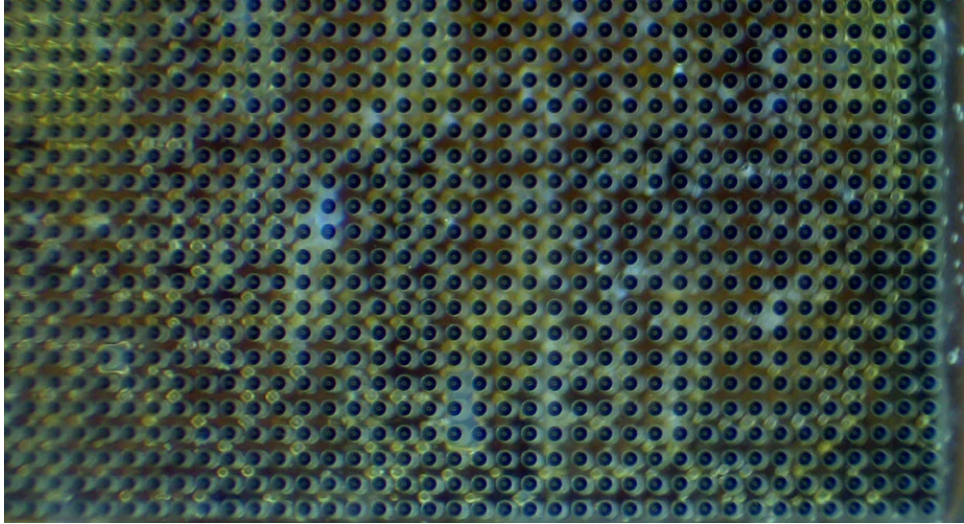


# 2D Matrix Fiber Array



Two-dimensional  $M \times N$  fiber array is a kind of fiber component that has many fibers arranged orderly and accurately in two-dimensional form, with arbitrary fiber core pitch. The pitch accuracy of 2D fiber array can be as small as  $1\mu\text{m}$ .

## 2D Fiber Array Features

- Arbitrary pattern
- Customer determined core pitch
- Pitch accuracy  $< 2\mu\text{m}$
- Fiber type: SM/MM/PM
- Compact Design
- Customized solutions
- Various materials (Glass / Ceramic)

## How 2d Fiber Array Works

A 2D fiber array normally includes: a two-dimensional microwell glass/ceramic plate, metal housing, and  $M \times N$  optical fibers. And it is described in the two-dimensional micro porous glass block for fixed fiber. The two-dimensional porous glass/ceramic plate is usually equipped with a number of a **two-dimensional fiber array** (/products/2d-fiber-arrays-assemblies/) of tiny holes.  $M \times N$  optical fiber goes through the small hole and fixed with adhesive. The metal case works as a support and protective cover to the fibers.

Two-dimensional fiber array is widely used in optical waveguide devices, integrated optics, optical imaging, etc. It is also a key component of two-dimensional optical collimator array. These array fiber collimators can be glued into a 2D array with high precision and all light channels are thus parallel.

