

# High-speed Processing

with an Ultra-short Pulse Laser and Polygon Scanner

Feature 1: Ultra-high-speed processing with a maximum scan speed of 200 m/second

Feature 2: Possible to directly capture image data\*

Feature 3: Possible to apply texture processing at high-speed on large areas

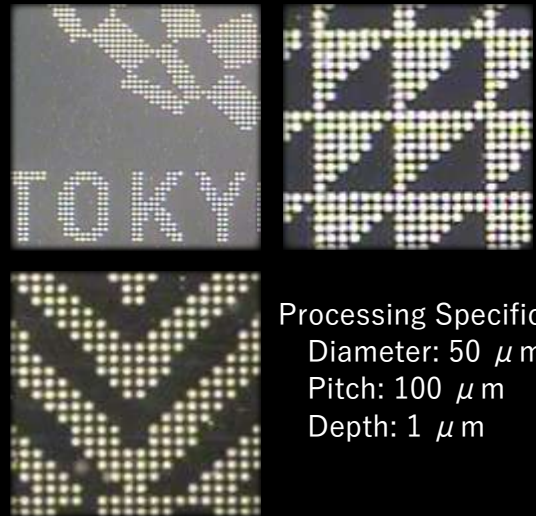
\*Supported data formats: PNG, JPEG, BMP and TIFF, etc.

## Design Processing Examples

Scan image data and draw various designs with dots



Actual Microscopic View (Excerpt)

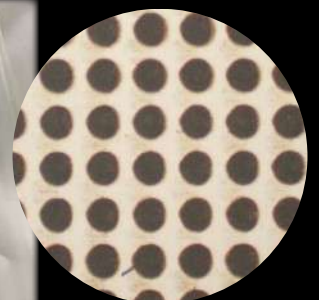


Processing Specifications  
 Diameter: 50  $\mu\text{m}$   
 Pitch: 100  $\mu\text{m}$   
 Depth: 1  $\mu\text{m}$

## Large Surface Dimple Processing Speed Comparison

Apply dimple processing  
 over the whole  
 150 × 150 mm area

Processing Specifications  
 Diameter: 70  $\mu\text{m}$   
 Pitch: 100  $\mu\text{m}$   
 Depth: 1  $\mu\text{m}$   
 Processing area: 150 × 150 mm  
 Total number of dimples: 2,250,000 holes



Magnified View

### 2,250,000 Hole Processing Time Comparison

Device	Machine equipped with a Galvano scanner	Machine equipped with a polygon scanner
Processing speed	54 minutes	2.7 minutes

**20 times  
 the throughput!**



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