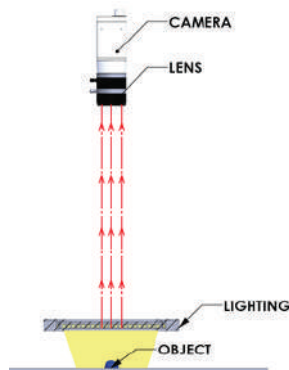


# Flat Dome Series



Scan or Click the QR code for more information









## Lighting Working Distance Effect



**10mm WD**  
The entire surface of the workpiece is illuminated uniformly, eliminating bumps in the image

**85mm WD**  
Show small bumps

**295mm WD**  
Every bump on the workpiece surface can be clearly emphasized in the image

Model	FDDS	FDDA	FDDH	FDDU
<b>Material</b>	Acrylic (SD)	Acrylic (HD)	Optic Glass (HD)	Optic Glass (UHD)
<b>Optical Characteristics</b>	<ul style="list-style-type: none"> <li>Moderate Clarity</li> <li>High Brightness</li> <li>More Low-Angle Light</li> </ul>	<ul style="list-style-type: none"> <li>High Clarity</li> <li>Slightly Lower Brightness</li> <li>More High-Angle Light</li> </ul>	<ul style="list-style-type: none"> <li>High Clarity</li> <li>Slightly Lower Brightness</li> <li>More High-Angle Light</li> </ul>	<ul style="list-style-type: none"> <li>Ultra-High Clarity</li> <li>Slightly Lower Brightness</li> <li>More High-Angle Light</li> </ul>
<b>Applicable Scenarios</b>	<ul style="list-style-type: none"> <li>Suitable for high reflective surfaces or scenes requiring diffused illumination</li> <li>Example: lithium-battery sealing pinhole inspection</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for applications requiring high image clarity and contrast</li> <li>Example: printed text or QR code inspection on reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for applications requiring high image clarity and contrast</li> <li>Example: printed text or QR code inspection on reflective surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Suitable for applications requiring extremely high clarity, offering the highest definition among current flat shadowless light technologies</li> <li>Example: semiconductor packaging inspection</li> </ul>
<b>Durability</b>	<ul style="list-style-type: none"> <li>Not scratch-resistant</li> <li>Easily contaminated by oil or organic gases</li> <li>Difficult to clean</li> </ul>	<ul style="list-style-type: none"> <li>Not scratch-resistant</li> <li>Easily contaminated by oil or organic gases</li> <li>Difficult to clean</li> </ul>	<ul style="list-style-type: none"> <li>Scratch-resistant</li> <li>Easy to clean</li> <li>Good general-purpose usability</li> </ul>	<ul style="list-style-type: none"> <li>Easy to clean</li> <li>Not resistant to organic gases or acidic/alkaline solutions and vapors</li> </ul>
<b>Price</b>	Low		Medium	High
<b>Dots Pattern</b>				
<b>Pattern Features</b>	Regular dot array		Dots are uniform and clear	Finer and denser dots
<b>Sample Images</b>				
<b>Images Clarity</b>	★★★★☆		★★★★☆	★★★★★

Customization				
Category	Model	Max.		Colour
		Length (mm)	Width (mm)	
Flat Dome	FDDS	480	400	Visible Colour
	FDDA	480	300	Visible Colour
	FDDH	300	300	Visible Colour, IR, UV
	FDDU	300	300	Visible Colour

## Features

- Flat optical structure with uniform light distribution
- Low-profile design, allowing close installation to objects
- Wide viewing angle for consistent illumination over a large area

## Advantages

- Provides even illumination without hotspots or shadows
- Can be installed in tight spaces, increasing flexibility
- Covers large areas evenly, reducing the need for multiple light sources

## Benefits

- Improves accuracy and consistency in inspection or imaging
- Saves space and simplifies system integration
- Reduces equipment cost and setup complexity by needing fewer lights