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**Product Name :**

Microwave Accessories Hollow Plano-convex Lens

**Product Code :**

SLE/PHY/247



# Description :

**Microwave Accessories Hollow Plano-convex Lens** (Product Code: SLE/PHY/247) is a large liquid-filled lens used to focus microwaves and demonstrate the refraction of electromagnetic waves in school and college physics laboratories. It consists of a thin moulded plastic dome, 260 mm in diameter, bonded to a 3 mm thick plastic plate 315 mm square, held upright on a channel base and filled with paraffin oil when in use. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

## Specifications

| Parameter | Detail |
|---|---|
| Lens type | Hollow plano-convex |
| Curved face | Thin moulded plastic dome, 260 mm diameter |
| Flat face | Plastic plate, 3 mm thick, 315 mm square |
| Construction | Dome bonded to the plate |
| Mounting | In a vertical plane by a channel base |
| Filling in use | Paraffin oil |
| Application | Microwave experiments |
| Product code | SLE/PHY/247 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM |
| Country of origin | India (made in Ambala, Haryana) |

## What Is the Microwave Hollow Plano-convex Lens Used For?

Placed between a microwave transmitter and receiver, the oil-filled lens converges the beam in the same way a glass lens converges light, so students can find a focus by moving the receiver until the signal peaks. It shows a class that microwaves and visible light obey the same laws of refraction, and it pairs naturally with the other microwave accessories for reflection, polarisation and prism work.

Microwaves have a far longer wavelength than light, so microwave lenses are built much larger than glass ones; the 260 mm dome also makes the idea of a focal point easy to show to a whole class. Fill the lens with paraffin oil on a level bench, make sure the channel base is stable before switching the transmitter on, and drain and wipe the lens before storing it. As optics lab equipment for the electromagnetic-spectrum topic, it helps bridge ray optics and wave physics.

## What to Specify When Ordering

- Whether paraffin oil for filling should be included in the quotation, as the listing does not say it is supplied.
- Whether your laboratory already has a microwave transmitter and receiver, or needs them
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