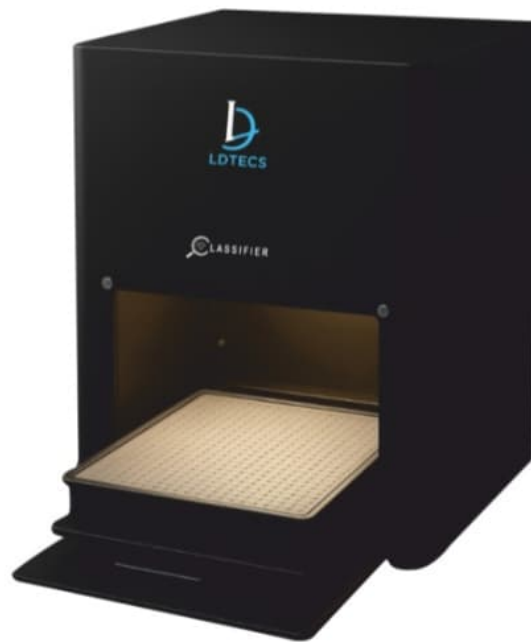




# CLASSIFIER

Leading the Science of Diamond Detection



**Advanced Lab-Grown Diamond Detection Machine**

**Detect with Confidence. Differentiate with Precision**

# CVD & HPHT Diamond Detector



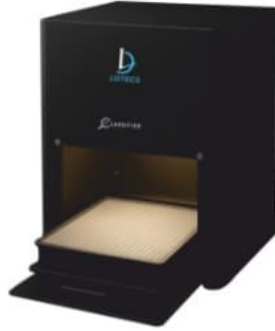
Loose & Mounted



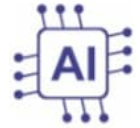
CVD/HPHT  
Stimulants



Colours  
D to K



Scanning Time  
25 to 30 Seconds



AI Based



Screening  
Devices

Scanning Area

190 x 180 mm

Dimension

300 x 280 x 320 mm



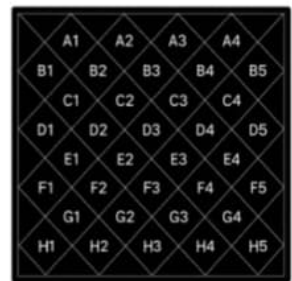
Big Diamond tray  
(20 x 22 cm)



Bangle tray  
(20 x 18 cm)



Ring Tray  
(20 x 18 cm)



Necklace tray  
(20 x 22 cm)

Classifier is a next-generation lab - grown diamond screening solution designed to accurately detect synthetic diamonds (CVD, HPHT) and simulants (Cubic Zirconia, Moissanite). Powered by Artificial Intelligence, it delivers fast, reliable results in 25–40 seconds, making it an essential tool for gem labs, jewelers, and diamond traders.

## KEY FEATURES

- Identifies Synthetic and Simulant diamonds like CVD, HPHT, CZ, Treated
- 98% Accuracy in Synthetic Diamond Detection
- 70% Accuracy in Simulants Detection
- Advanced AI algorithms for high-confidence detection
- Detects loose diamonds and mounted in jewellery
- Detects rough and polished diamonds
- Detects diamonds primarily through D to K colour
- Detects all shapes and sizes from 0.001Cts and larger
- Simple and user-friendly software interface
- Compact, lightweight, and durable design
- Tamper-proof and consistently reliable operation

## SOFTWARE FEATURES

- **16 MP Auto-Focus Camera** for high-resolution diamond images
- **20X+ Zoom** capability for microscopic clarity
- **256GB Local Storage** for offline record keeping
- **15GB Cloud Storage (Free)** with upgradable options
- **Email Sharing** of records and reports
- **Custom Theme Report Generation** of result
- **QR Code Generation** for linking to uploaded report URL
- **Auto-Save Records with minimal manual steps**
- **Auto-Delete Old Records to manage storage efficiently**
- **Wi-Fi Connectivity** for real-time sync and updates



Full HD IPS Display Wireless Keyboard & Mouse

## APPLICATIONS

- Gemological Laboratories
- Jewelry Showrooms & Retail Chains
- Diamond Trading & Appraisal
- Certification Agencies
- Auction & Verification Houses

## TECHNICAL SPECIFICATIONS

- **Dimension:** 30x28x32 cm (width x length x height)
- **Weight:** 10 kg
- **Power Supply:** 100-240V , 5A
- **Software Interface:** Standalone Linux OS
- **Accuracy:** 98%
- **Local Storage:** 256 GB
- **Cloud Storage:** 15 GB
- **Connectivity:** USB / Wi-Fi
- **Display:** Full HD IPS display

## About Us

At LDTECS, our state-of-the-art testing machines are designed to accurately distinguish between natural, CVD, and HPHT diamonds using advanced spectroscopy, fluorescence imaging, and intelligent detection algorithms. Built for speed, precision, and ease of use, our technology delivers trusted results within seconds — protecting your reputation and your customers' confidence and that's where we come in.

## Our Mission

To empower the gem and jewelry industry with advanced, reliable, and user-friendly diamond testing solutions that ensure transparency, build trust, and protect the integrity of every gemstone transaction.



Surat | Hyderabad



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