

Can you tell if these
diamond meleees are natural?



Now identifies synthetic diamonds
as small as 0.02 ct, instantaneously

SYNTHETIC DIAMOND SCREENER II
BY PRESIDIUM®



Able to test on mounted diamonds



Synthetic Diamond Screener II (SDS II)

is developed by Presidium to help screen out Type IIa colorless diamond from the natural Type Ia colorless diamond. This includes screening out chemical vapor deposition (CVD) and high pressure high temperature (HPHT) created diamonds which are typically Type IIa.

This portable device works quickly and can be used on both loose and even mounted colorless diamonds.

FEATURES

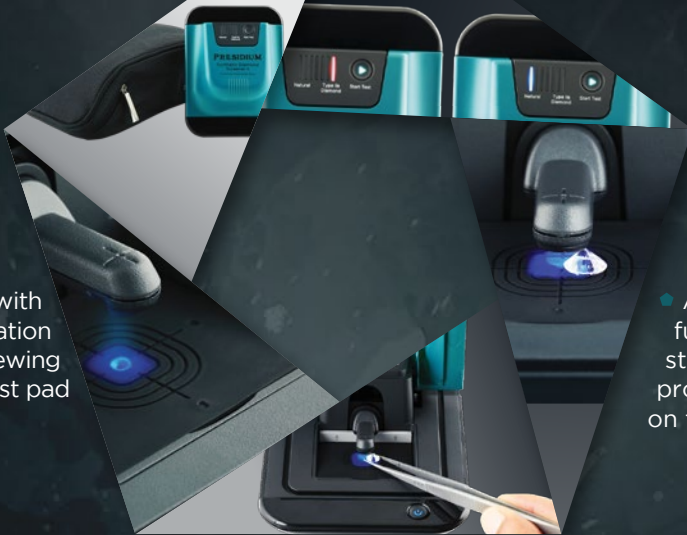
- ◆ Works on colorless diamonds from D color to J color, on any cut

- ◆ 2 color coded indicator light bars to give clear results of Natural Diamond (blue light) and Type IIa Diamond (red light)

- ◆ Mini probe with blue illumination for clear viewing of test pad

- ◆ Auto-Alert function when stone is not properly placed on test pad

- ◆ Convenient 5mm bar to raise the test probe for successive testing on loose stones



THE TYPES OF DIAMONDS

Diamonds can be classified into two Types.

Most Common Colors for
Diamond Types



Type I
(N impurities)
Diamonds
with Nitrogen

98%

of all diamonds

Type Ia

(aggregated
N impurities)

Colorless

Brown
Yellow
Orange
Pink
Violet
Green

0.1%

of all diamonds

Type Ib

(isolated single
N impurities)

Brown
Yellow
Orange



Type II
(no N impurities)
Diamonds
without Nitrogen

1.8%

of all diamonds

Type IIa

(no N or boron
impurities)

Colorless

Brown
Pink
Green

0.1%

of all diamonds

Type IIb

(boron impurities)

Blue
Gray

Synthetic Diamonds

Currently, known synthetic colorless diamonds are typically Type IIa diamonds. Type IIa colorless synthetic diamonds, also known as diamonds that are “lab-grown”, “man-made”, “created” or “cultured”, are diamonds that are created from chemical vapor deposition (CVD) or high pressure high temperature (HPHT) syntheses. They can also be CVD diamonds that have undergone HPHT treatment to change its color.

RECOMMENDED USE

For Colorless Diamonds of:

Color Grade	D color down to J color
Carat Size	From 0.02 carat to as large as 10 carats
Cut	All cuts as long as it has flat surface
Mounted Jewelry	For jewelry with "open-back" setting

What You Need To Know

- Ensure your colorless stone is a diamond. You may also check this through a diamond/moissanite tester.
- The diamond should not be more than 6mm in height as the specific UV wavelength has limited ray reach.

PRODUCT SPECIFICATIONS

Description	Specification
Dimensions	130mm (L) x 100mm (W) x 65mm (H)
Portability	Comes with protective convenient carrying case
Weight without batteries	210 grams
Startup time	Warms up in 4 seconds
Testing time	Results in 2 seconds
Battery life time (based on alkaline batteries)	Up to 2400 tests before low battery
Battery-saving auto shut-down time	10 minutes
Power	4x AAA batteries / USB

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