

Polished Diamond's

HOLISTIC SECURITY

Checks DNA of your diamonds
& imparts UNIQUE identity

integration with all
major databases



Secure linkage between
your Sales offices & Factory

invulnerable shield against Malpractices
provides Assurance to your Customers



Sahajanand
TECHNOLOGIES (P) LTD.

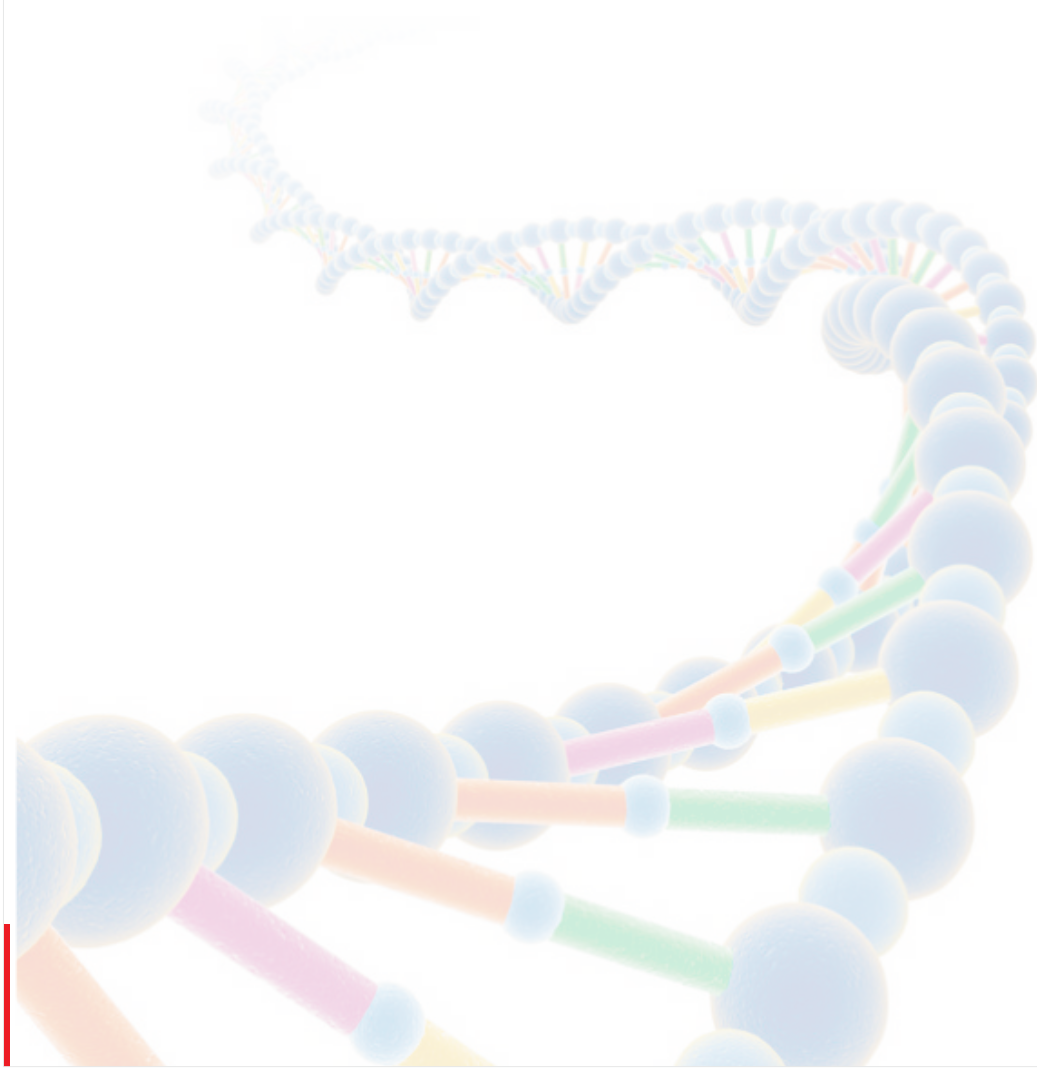
Where TECHNOLOGY
Becomes REVOLUTION

SMART-i[®]

The fifth C of Confidence



to Get Your Diamond's DNA Testing Done



SMART-*i*[®]

The fifth C of Confidence

High-end Non-invasive Identity Verification system for Polished Diamonds

It is an Optical Characteristics Recognition System, for diamonds with high luminescence. Each polished diamond has its unique optical characteristic, which is inherent and cannot be changed or eliminated. Smart-i senses this inherent optical characteristics of the polished diamond for identification and verification of individual stones using its sophisticated algorithm.

Application

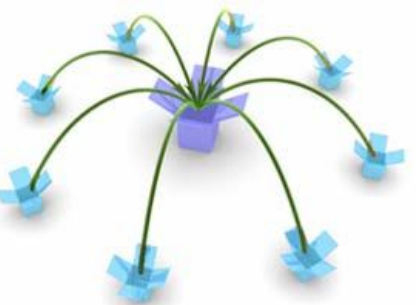
- invulnerable shield against Malpractices

Smart-i acts as an invulnerable shield against any Malpractices take place in factory to sales office, like polished diamond switching or stealing. Let your polished diamond reach to any of the sales office, it can be easily VERIFIED or IDENTIFIED.



- Database integration

Smart-i gives benefits beyond boundaries. Smart-i records & stores all important data of your precious diamonds. Moreover, data derived from Smart-i can be easily merged up with existing database of factory. For maximum utilization of this revolutionary technology, Smart-i can be placed in different geographic locations such as at factory in Surat, sales office in Mumbai, Hong Kong, Antwerp or Dubai. Once polished diamond is registered, data can be shared at each locations with the help of common server and internet or leased line.



Modules of 'Smart-i' application

1. Diamond Registration

- The Registration process is the foremost process of the application, where by the polished diamond is registered with 'Smart-i' system.
- Various details like Stone ID, Diameter, Weight, etc also can be recorded.
- After the successful registration, Smart-i generates a unique ID for the polished diamond. Once the polished diamond is registered, let it travel anywhere inside or outside of your premises, when it comes back, you can verify the polished diamond with CONFIDENCE.



2. Diamond Verification

- Verification is a process in which a registered diamond can be verified by its Registration ID.
- When a diamond undergoes to a verification process, the software decides whether the polished diamond is the same as the one registered or not.
- This takes hardly a few seconds.



3. Diamond Identification

- Identification function is designed to establish identity of the polished diamond from the database of registered diamonds, even without needing 'Registration ID'.
- Identification can be done at any point of time after Registration is completed.



4. Check Duplication

- You need not to worry about duplication in registration of polished diamonds. Smart-i is devised intelligently to check duplication of data.
- As per the criteria set by user, Smart-i checks diamond from database and search for the Diamonds registered for multiple times.
- Moreover, if same diamond is registered with two different registration id, then Smart-i makes you aware of that fact.



"Benefits Beyond Boundaries"

Salient Features of Smart-i

Unchangeable Identity - Be Confident

All the polished diamonds have unique optical characteristics or pattern naturally built into them. This cannot be erased, nor can be changed in any other manner.

In essence, the identity of any polished diamond registered with Smart-i cannot be changed or duplicated.



Non-invasive Process

The technology employed by Smart-i for a polished diamond's identification and verification is uniquely non-invasive. So there is no need for any material alteration in the polished diamond, or any markings on the face of the polished diamond.



Smart & Mistake Proof

The accuracy level of Smart-i for identification & verification is 99.999%.



Very Fast Process

The whole process of determining identity of the polished diamond is very fast. Smart-i deploys very fast and sophisticated image processing algorithm to bring down the entire time of requested operation within Seconds.



Complete Scalability

Smart-i gives you fully scalable solutions. The polished diamond can be identified, verified or certified on a single machine, or locally on multiple machines connected by LAN, or across the whole enterprise, on multiple machines located at multiple sites. For example, A stone registered in Surat can be verified or identified on multiple machines located @ multiple sites, using your existing WAN infrastructure.



Who ~~should~~ ^{must} use Smart-i?



1. Polished Diamond Manufacturers.
2. Polished Diamond Traders.
3. Everyone, who wants to check and ensure the genuineness of the Polished Diamonds returned back to them.

Smart - i Specifications

Stone type	:	Polished Diamond with culet with high luminescence.
Size range	:	From 0.20 ct. to 5.00 ct.
Machine Dimensions	:	480 H x 330 D x 230 W (mm) (Excluding Computer System)



**Register your precious
Diamonds with their four 'C's & add
*The fifth C of Confidence***

Do SMART - *i*

The fifth C of Confidence®



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