

## **Company & Product Introduction**



No.1 Product Authenticity Verification Service



Content DNA Search Service

**SSELF**<sup>™</sup>

**Product Test Automation Solution** 

**Multimedia Solution** 

Multimedia Application Solution

Company CK&B Co., Ltd.

Established December 3, 2007

CEO Ki-Hyeok Bae

Business parts Product Authenticity Verification Service, Mobile Solution Multimedia Solution, Content DNA

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### Leading company using the latest technology in the brand-authentication field

- Provide the product authenticity verification, content monitoring service and copyright protection by the digital watermarking and image recognition technology.
- Launch the HiddenTag® which enables watermarking images to be scanned in a digital way via smartphone.
- Over 700 brands have partnered with HiddenTag and selected as an official authenticity verification organization by KITA&KOTRA.

#### **Business parts**

HiddenTag® for C.O.P is the product authenticity verification service that helps identifying the hidden data of the label through the smartphone application.

An optimal solution, which provides copyright protection and similar content search, using the unique DNA information of the digital content

Perform automated test to detect errors in software/hardware for multimedia output devices during the pre-shipment inspection phrase.

the multimedia solution, copyright protection and object recognition solution, through the multimedia image processing technology

#### Competitiveness



#### Advanced Technology



- We have domestic patents and intellectual property rights including America, japan and China
- More than 30 domestic/ international patents
- HiddenTag has been certified by CTAAC to provide anti-counterfeit solution



#### Global competence



- The number of international partners consistently increase
- Partnership with various fields of business including cosmetic, medicine, fashion and home appliance

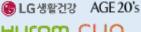


#### Reference

Official organization



Partners









Chem LG Chem

Partnered with over 700 brands

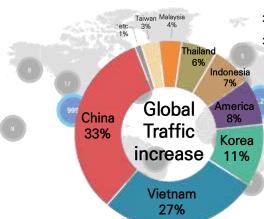


## **Company Introduction**

## History

#### Established the business foundation

2007.12	Establishment
2008.05	Watermarking Solution to KBS
	•
2008.11	Recognized as a Research Institute
2009.03	Completed the Transmission of Terrestrial
	broadcasting connecting with UCI for SBS
2009.12	Supply Contract on Automation Monitoring
	System with Samsung SDS
2010.10	Moved to a larger facility located in
	Samsung-dong
2010.12	Excellent IT performance for National IT
	industry Promotion Agency



#### Accelerated the market share

Applaimed as a Datast Ctar Company by Cooul

2011.05	Acciaimed as a Patent Star Company by Seoul
2011.08	Business Agency Acquired the certification for INNO-Biz -Best
2011.10	Entrepreneur among Small and Medium Sized Enterprises
2011.12	Awarded at Korea Invention Patent Exhibition by the Korean Patent office for Intellectual Property Protection
2012.04	Received the IT Convergence Enterprise Award by the Ministry of Knowledge Economy
2012.05	WIPO award for the best inventor at Korea Invention Patent Exhibition(KIPO)
2013.10	Received the President's Award on the Day of Electronics and IT
2014.02	Korea Software Awards by Ministry of Science, ICT and Future Planning
2014.10	Moved to a larger facility located in Sungsu-dong

#### Leading the Brand-Authentication Field and International Expansion

2018.02	Received the International Expansion Excellent Firm Award
2018.05	Awarded as role model enterprises from "2018 small and
	Medium-Size Enterprises Award"
2018.12	Prime Minister Citation by Mobile Technology Awards

Selected as an official brand protection solution of "Export

Voucher" program by KITA 2019.11 Selected as the IBK innovator

2019.11 Selected as one of the world-class goods 2019.12 Selected as an official organization by China Trade Association

for Anti- Counterfeiting

2019.12 Selected as a promising small and medium exporting

company

2019.10

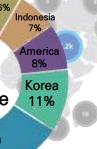
2020.02 Received the excellence award in the 'SW Enterprise Competitiveness Award

2020.04 Participated the Global Start-Up Fostering Program by Seoul

Business Agency(SBA)

2020.09 Received the Prime Minister's Award at the small and

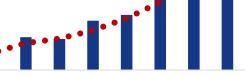
medium business competition











2014 2015 2016 2017



















#### ■ Domestic/International Patents

	Patent rights	Trademark rights
Domestic	23(1)	5
International	4(5)	10(1)



Sales statuses

## Authenticity Verification App with the Highest User Awareness in the industry

## Operates Subsidiaries and Agencies around World



- We have been operating several overseas subsidiaries and agents to provide tailored solutions globally.
- HiddenTag technology has been certified in China by the CTTAC( China Trade Association of Anti-Counterfeiting) to sell anti-counterfeit technology HiddenTag since 2019.

## Global Authenticity Verification Service



- HiddenTag app is registered in app markets around the world and has been accessed and used in over 150 countries.
- HiddenTag App has been ranked #1 in app evaluation/ 1# in cumulative downloads among all product authenticity verification apps.
- Multi-languages support → Korean, Chinese, English, Japanese, Vietnamese, Indonesia. Also, Hindi. Spanish and Arabic will be added soon

### **Export Voucher**



SBC 🎉 💆 🗖



Selected as an official agency in the field of authenticity certification for export vouchers for 5 consecutive years



 HiddenTag has been selected as an official organization of export voucher by KOTRA and KOSME for five consecutive years, from 2016 to 2020.

## Optimized service for your international expansion

## The only Korean technology obtains a certificate from CTAAC



- HiddenTag had certified in China by CTAAC(China Trade Association of Anti-Counterfeiting) and passed through technology examination from CTAAC in 2016 as the first Korean Technology
- Since 2016, HiddenTag passed through a test that renews technology certificate for 3 years in 2019.

Will aid with client's effort in internationalization – client centered approach



- HiddenTag aims to provide effective counterfeit control services in cooperation with public institutions with judicial authority in China through the data reported by users.
- It protects the products of companies that have not fully secured trademark rights in China.
   Provision of service with intention to aid increase of overseas sales.

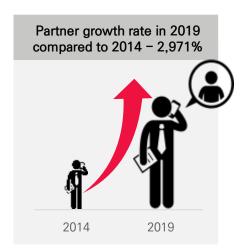
# Acquired Chinese ICP (Internet content provider certification of China)

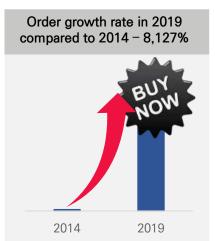


- An ICP(Internet Content Provider) license is a state—issued registration number that allows you to host your website on a mainland Chinese server and operate business online
- HiddenTag acquired IP license to provide trusted and stable service at WeChat application which has 1 billion users.

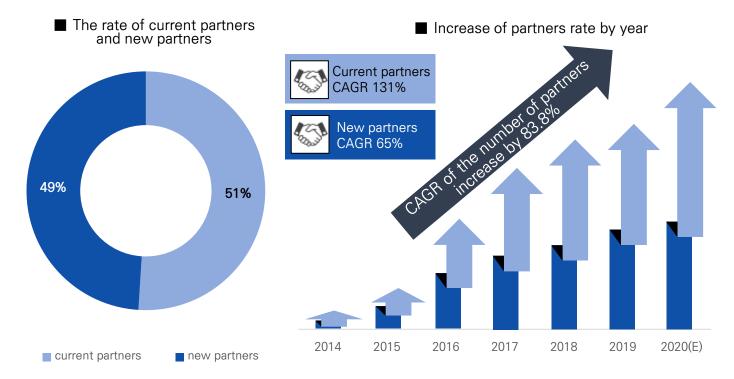


### The number of partners increase and high rate of reorders



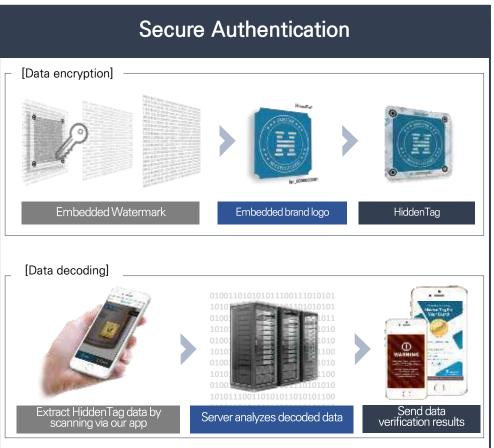


- The rate of current partners and new partners is 51% and 49% respectively. Current partners have increasingly reordered HiddenTag due to satisfaction with our services.
- CAGR of new partners is 65% and of current partners is 131%.



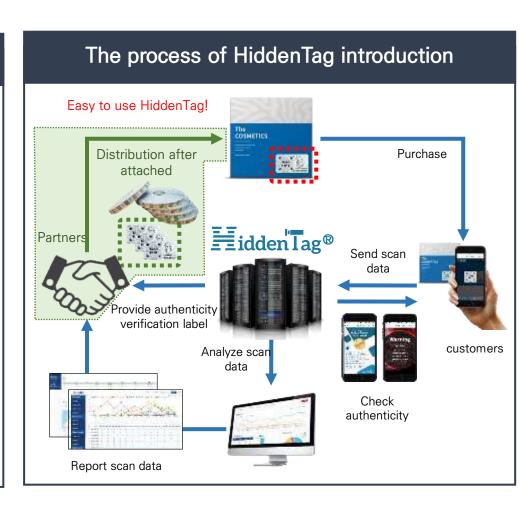
## The Solution: An easy-to-use authenticity verification service **lidden** lag®

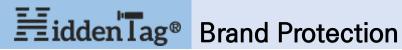




### HiddenTag with Security, convenience, expandability

## The major services HiddenTag label Hard to differentiate with naked eyes One-of-a-kind data Prevent illegal counterfeit through leading authentication technology HiddenTag mobile application Authenticity verification possible via HiddenTag app Provide the services by 6 different languages for global customers HiddenTag server Produce the label data, collect authentication data and analysis Check authenticity and additional services available Analyze scan data





## HiddenTag allows brands to have customized designs of the labels

LabelTypes					* Can be further customized
Design		HiddenPick HiddenPick	OPTION		Destructive Type  All sizes available  Various shapes  Label breaks apart when removed  non-reusable
Minimum Size	12mm * 12mm [Scratch area + 2mm]	20mm * 8mm [Scratch area + 2mm]			Seal Type  • Application to append
Material	Hologram + Transparent PT			THE STATE OF THE S	<ul><li>Package seal</li><li>Seal part on desired area</li></ul>

Material Types				*Can be further customized
Type	International Internation International Inte	Care Label	Francisco de la constante de l	Epoxy
Minimum size	140mm * 190mm	30mm * 84mm	50mm * 90mm	
Material	PET	PP	Snow White art paper 200g	Can be customized



### User customized mobile landing pages for better content-engagement















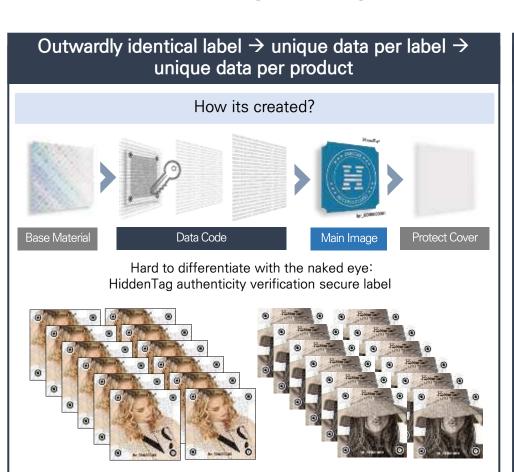






#### Each label has an embedded identification

"Digital Analogue" - authenticity verification secure label



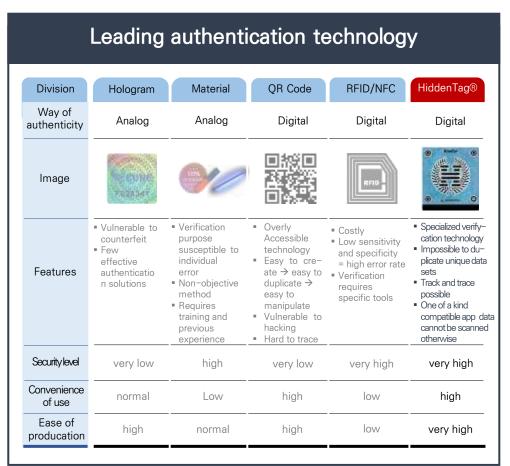
#### One-of-a-kind data

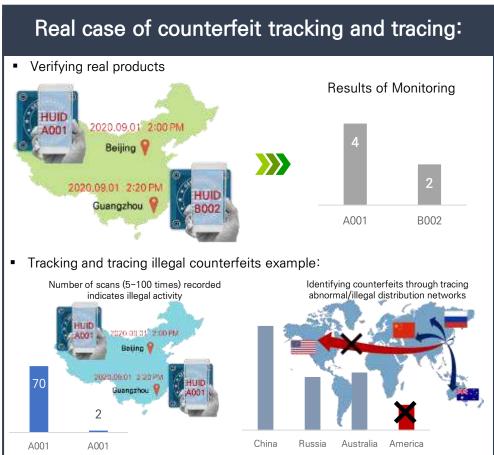
#### Data embedded in HiddenTag is different per product type per brand!

- Using unique technology to identify authenticity
- Same appearance but unique data per label



## Using the latest technology in the brand-authentication field







- Provide the production and distribution information of each product (manufacturer, vender date of production, batch/lot number)
- Customized distribution information pages depending on client' need
- Can be a accessed both from smartphone and web system



Scan the label on the product

Click the hidden button in the





- Enter Administrator's ID and password







Check distribution information



#### Admin webpage for data analytics

- Individual product information is linked to each HiddenTag data
- Select the search fields e.g. serial number and name of products
- Individual and mass search possible, excel format download functions available



landing page

Abnormal distribution monitoring

- Inventory protection, labor force control, reduction of unnecessary costs
- Enable efficient product supply and check global distribution channel
- Adjust production through sales volume and consumer real-time information

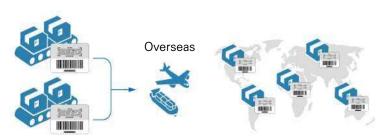






On-off line Store and Consumer





- Products are connected with blockchain via HiddenTag
- Observe the production, distribution and consumption process without risk of forgery





- Consumer purchase pattern and quantity analysis possible
- Analysis of intermittent time between purchases made by the same customer



#### Vendor monitoring

- Tracking unusual vendor activity
- Can analyze market success depending on specific distribution channels





- Monitoring sales status by time periods
- Distribution channel details by product available
- Can record time spent at each stage of distribution





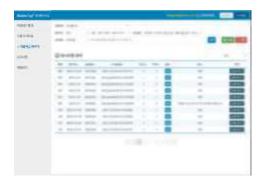
- Area distribution analysis by nation and city
- Monitoring areas of unusual distribution activity





- Scan the GPS data → Global monitoring possible
- Available information:
  - Number of Scans
  - Country/ Scan location
  - Duplicated data monitoring









- View all HiddenTag scan records
- Check the scan records of each product separately
- Scan data statistics (number of scans, country of scan etc)
- Show different types of scan data through specific search criteria/filters(number of scans, country) and check graphs
- Duplicate attempt detection
  - Show overall scan statistics as well as statistics of suspicious scans

- Channels for collecting consumer data
- After-sales information service for the purchased products
- Using collected consumer data to create consumer-specific marketing strategies





- Consumers scan the label on the product





- Once consumers enter their information, the server records user information as related the product



HiddenTag provides consumer reports

- User information data reports can be delivered to brands daily, weekly or quarterly



- Stage plenty of marketing events through management of products
- Targeted Ads by language
- · Various coupon drawing events



- Scan HiddenTag
  - Scan HiddenTag label on the product





- Authentication page or Event winner page
  - Pop-up of the general authentication page + random event winner pages
  - HiddenTag can be used to optimize marketing strategy access

**>>>** 

- Prevention of illegal identity theft
- Can check the identity accurately by smartphone
- Proper information can be easily collected by smartphone without specific tools





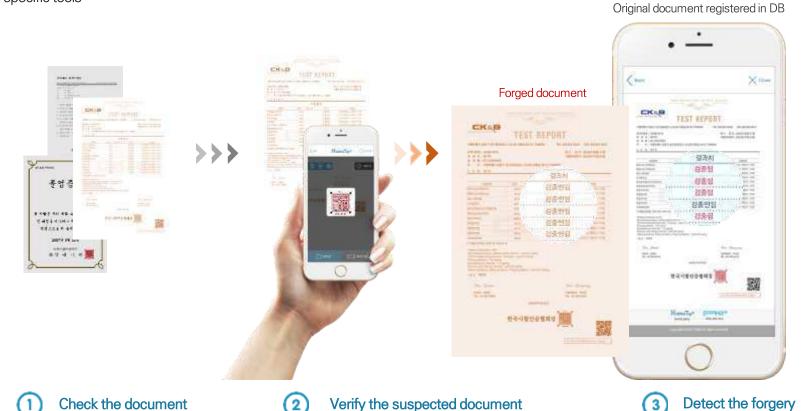


- Check the name card holder
- Check out whether the photo on the name card and the name and holder are the same person

- - Verification

- Check the identity
  - Check whether the information on the name card coincides with the one in the DB

- Document security technology regardless of on/offline
- Insert authenticity information inside the corporate logo and seal
- Proper information can be easily collected by smartphone without specific tools



- Accurate content tagging and detecting technology
- · Provide copyright protection for both on and offline multimedia contents
- Detect watermark as various forms of transformation of watermarked contents









- Ownership of content
- Exposure of suspicious content
- Watermark verification
- Proof of ownership

- Protect copyrights of the broadcasted content
- Create new value-added services that can be connected to commerce/advertisement
- Monitor the effects of your advertisement
- Inserts unique ID watermark to the HD level broadcast and transmit it



#### **Copyright Protection**

Watermark insertion to the broadcasted Content-transmission Service



#### Creation of additional Service

Indirect Advertisement(PPL)
Commerce Linkage Service



#### **Monitoring Service**

Real-time Ad Monitoring Service



#### for Mobile

- O2O(Offline to Online) service connect on and offline channels based on the image search technology
- Use the effective marketing strategies regardless of on and offline



### for Rights

- · Report copyright infringement of images to you by tracking images available online
- After registration of images on server, find pirated images by the image collection technology



#### for Search

- Search for similar images and identical objects
- Mainly search trademarks, designs and patents
- Can search accurately and quickly with the customized search of using key word and image together



Search objects



Search result search type



- The new convergence of new generation computer and manufacturing technology
- Perform automated test to detect errors in software/hardware for multimedia output during the pre-shipment inspection phase

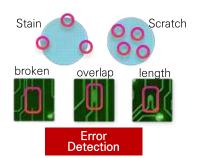
### for Display Device



Monitoring instantaneous error in video/audio files

#### for Semiconductor







### for Object



#### **VISION**



3D Content Solution

Copyright protection and quality test for 3D content



Artificial Intelligence and Pattern Recognition Solution

Production and editing tool solution for image processing



Computer Vision Solution

Image technology – object recognition, machine learning and pattern recognition

#### **AUDIO**



Voice Recognition Solution

Application on wearable devices



Multimedia Recognition Solution

Integrated content recognition technology

### **Object**



Image Object Recognition Solution

Trademarks, designs and patents search technology



#### Video Object Recognition Solution

Utilization in behavioral pattern and context recognition technology

## 03 Reference

## History

#### Development of Anti-Counterfeiting Technology and Innovation

#### 2010

- 12 Received the Research & Development Award by National IT Industry Promotion Agency
- 10 Moved to a larger facility located in Gangnam-gu

#### 2009

- 05 Developed Copyright Protection Monitoring System
- 04 Excellent IT performance for National IT Industry Promotion Agency

#### 2008

- 11 Established a Research Institute
- 08 Recognized as a venture business
- 06 Moved to a larger facility located in Gwangjin-gu
- 05 Approved as a Software Company (No. 2008-08504)

#### 2007

12 Established(New company name: CK&B Co., Ltd)

#### 2015

- 12 Business partnership with Daegyeong Investment Inc.
- 11 Received a letter of appreciation by KB Financial Group Inc.
- 10 Acknowledged as an official brand protection mark of KITA

#### 2014

- 10 Moved to a larger facility located in Sungdong-gu
- 02 Korea Software Awards by Ministry of Science, ICT and Future Planning
- 02 Acquired the "GS" certification for ScanHit®
- 01 HiddenTag ® C.O.P. developed

#### 2013

- 10 Received the President's Award on the Day of Electronics and IT
- 02 WIPO award for the best inventor at Korea Invention Patent Exhibition(KIPO)

#### 2012

- 11 Awarded at Korea Technology Transfer Agents Association
- 05 WIPO award for the best inventor at Korea Invention Patent Exhibition(KIPO)
- 04 Received the IT Convergence Enterprise Award by the Ministry of Knowledge Economy

#### 2011

- 12 Awarded at Korea Invention Patent Exhibition by the Korean Patent office for Intellectual Property Protection
- 10 Best Entrepreneur among Small and Medium Sized Enterprises
- 08 Acquired the certification for INNO-Biz
- 05 Acclaimed as Patent Star Company by Seoul Business Agency

## Leading the Brand-Authentication Field and International Expansion

#### 2020

- 09 Received the Prime Minister's Award at the small and medium business competition
- 04 Participated the Global Start-Up Fostering Program by Seoul Business Agency(SBA)
- 02 Received the excellence award in the 'SW Enterprise Competitiveness Award

#### 2019

- 12 Selected as a promising small and medium exporting company
- 12 Selected as an official organization by China Trade Association for Anti- Counterfeiting
- 11 Selected as one of the world-class goods
- 11 Selected as the IBK innovator
- 10 Renewed the Certificate by Anti-Counterfeiting Trade Association of China
- 10 Business partnership with Hana Financial Investment Co., Ltd.
- 10 Selected as an official brand protection solution of "Export Voucher" by KOTRA

#### 2018

- 12 Prime Minister Citation by Mobile Technology Awards
- 05 Awarded as role model enterprises from "2018 Small and Medium-Size Enterprises Award"
- 02 Won the excellence award in the "SW Enterprise Competitiveness Award" by Ministry of Science and ICT

#### 2017

- 09 Established a Hong Kong Corporation
- 06 Established a Chinese Corporation
- 05 Selected as an official brand protection solution of "Export Voucher" program by KITA.

#### 2016

- 08 Certified by Anti-Counterfeiting Trade Association of China
- 02 Business partnership with Korea Investment Partners



# 03 Reference

# Industry Credibility

## Number 1

HiddenTag has been chosen as the go-to product authenticity verification tool for various public institutions and associations



China Trade Association for Anti -counterfeiting

First Korean company acknowledged by the Chinese government as an official anti-counterfeit solution



Korea international Trade Association

Selected as K+ mark certification



Korea Trade-Investment PromotionAgency



Korea Broiler Council



Korea Fashion&Culture Development Agency



# **Directions**



#409-412, SK V1 TOWER, 5, Seongsuil-ro 8-gil, Seongdong-gu, Seoul, S. Korea

(#409-412, SK V1 TOWER, 5, Seongsuil-ro 8-gil, Seongdong-gu, Seoul, S. Korea)

4 min walking distance from exit 4 of Tukseom Station

6 min walking distance from exit 1 of Seongsu Station



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