ICS Solution
with HCC(Hidden Color Code)

Third-Generation Product Management Solution for SCM and CRM

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Change in Product Management Code

First-Generation

Bar Code

Limited data to be saved

Second-Generation

QR Code

Administrative security issues due to exposed code!

Third-Generation

HC (Hidden Color) Code

Keep the advantages of the existing management code and improve security with invisible management number!

Principle and Application Process of HC (Hidden Color) Code

Receive design file (ai) from clients

Create HC code (Unique ID, product information, production date, effective date, factory line, etc.

225 -> 0   230 -> 1

100110110...

Apply HC code via ICS conversion program (insert data through non-visible color difference)

Mass production after printing product design according to existing process (material-independent, no change in process)

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ICS Solution Applications – Build Brand Protection & Marketing Channels

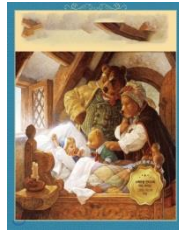**Special Materials and Special Printing X** ·······▶ **Applicable to all materials and general printing based on digital watermark!**

No Additional Labeling Process X ·······▶ **Applicable to the design file itself, thus applicable to printing and existing processes as well!**

Applied to Cosmetic Labeling

Applied to Fairytale Book / Album

Applied to Record Sleeve

Applied to Entrance Ticket

Applied to Flyer

Applied to Packaging

Applied to Pouch Packaging

Download ICS App and scan for a second!

Activation / Product Information

Join Event

Go to Purchase Page

Play Contents

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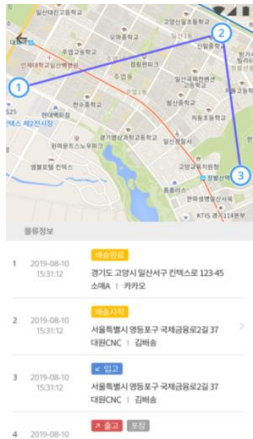# ICS Solution Applications–Individual Product Traceability Management

Exposed Management Code (Barcode / QR Code) ┈┈┈▶ Highly secure traceability management system by hiding the management number!

Tracking management in lot and box units ┈┈┈▶ Manage individual product tracking by assigning ID to each product at the lowest cost!
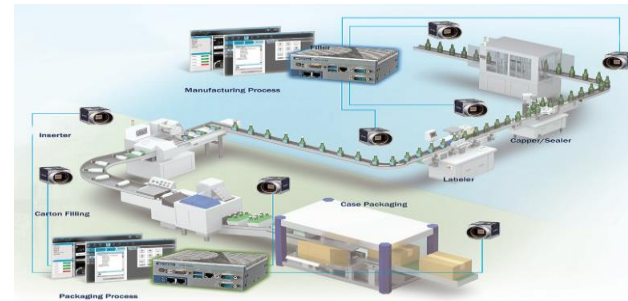

Id = 1   Id = 2   Id = 3   Id = n

1. Label Production and Labeling

Apply variable Unique–HC code via digital printer to packaging such as product label/ set

2. Factory Inspection and Product Release

Full inspection of individual products through vision camera / smartphone scanning
   –> Process product release after mapping with current box–by–box barcode system
   (Dashboard checks product scan and status of product release data)

3. Entering, Release and Inventory Management in DC / TC

Product entering/ release processing through existing barcode management system
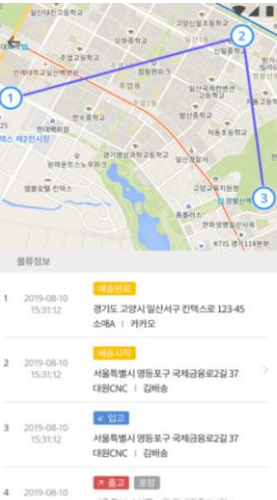(Identify the status of entering/ release, inventory and product expiration date through dashboard)

4. Enter Retail Store and Consumer Scanning

5. Check Product History

Expected Effects

Establish a Consumer-Directed CRM channel through two-way information exchange between customers and consumers!!

Individual product traceability control s product price and minimizes cost recovery by preventing illegal distribution!

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