

Counterfeiting in Today's World



- What are counterfeiters really interested in? Answer: **Money \$\$\$**

“Counterfeiting is a **BIG Business”**

- **We will examine processes and equipment used by counterfeiters**
- **And, we will show how they use a variety of materials and equipment**

The four AAMVA threats:



1. Simulation
 2. Alteration of existing DL
 3. Photo substitution
 4. Cannibalization
- The one that makes the most money and is the easiest for the counterfeiter's business is #1.

Counterfeiter business approach



- Target the jurisdictions with little security and only one personalization means
- Make it easy for the customer
- Charge a sum that even a college student can bear (\$200-300 each)
- Use the internet and the mail system
- Use easily accessible material and personalization means that States use

Personalization Means in use Today in the US



- The main types of personalization technologies are:
 - Dye Diffusion Thermal Transfer (D2T2 or desktop printing)
 - Laser Engraving (YAG laser either grey scale or tactile)
 - Xerography
 - Laser Ablation
 - Indigo
 - Ink Jet
- In the US, the top four are the only ones in use today
- By contrast, the most widely used methods of counterfeiting are Dye Diffusion Thermal Transfer (D2T2) and Ink Jet

Characteristics of a “Targeted” Credential

1. No offset preprint in background
2. Only one perso technology – worst case is if it is the same as the counterfeiters choice
3. Simple holograms (1-800-China); pressure sensitive patches
4. Basic/vanilla security features; UV in blue



Example "Novelty"/Counterfeit Card



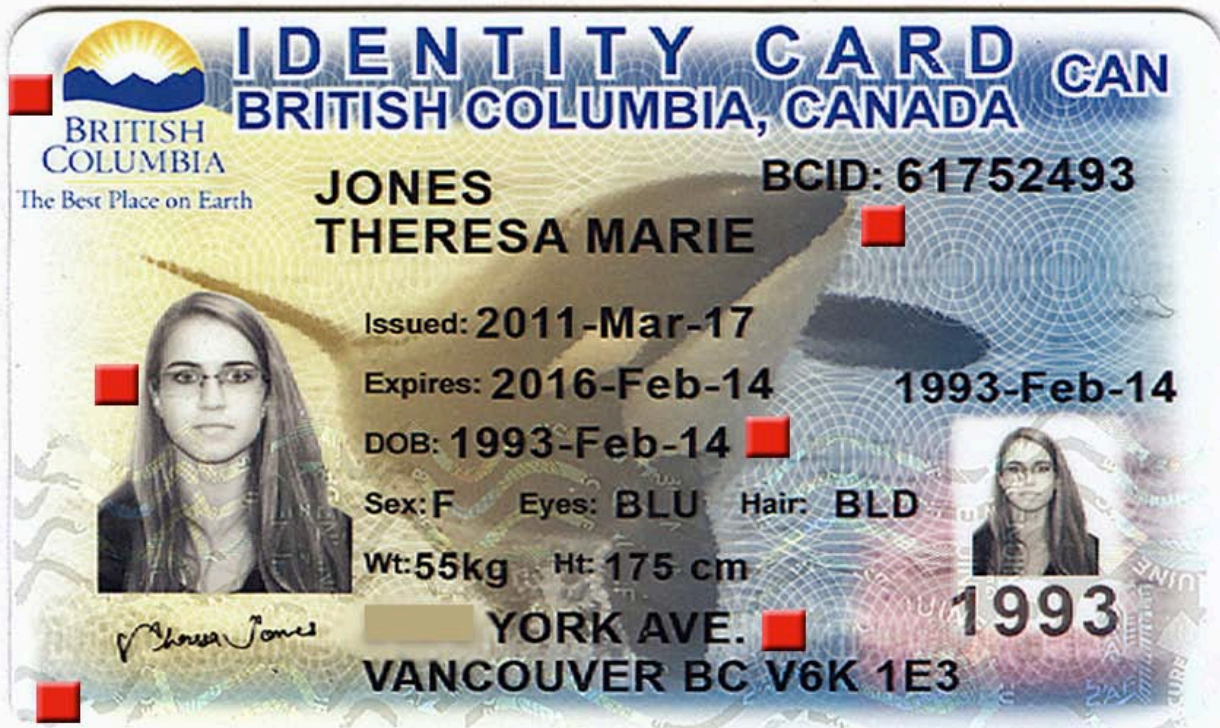
Dissecting a fake ID

CBC News investigation shows the sophistication behind 'novelty' identification cards

CBC News Last Updated: Jan 3, 2013

A CBC News investigation into the accessibility and look of "novelty" IDs found that underage kids can get a card with many of the security features of a real government-issued ID. The phony IDs are so good, they're often hard to catch.

The image below is a scan of a fake B.C. ID that was made during the investigation. **Roll your mouse over the red squares below to learn more about all the elements.**



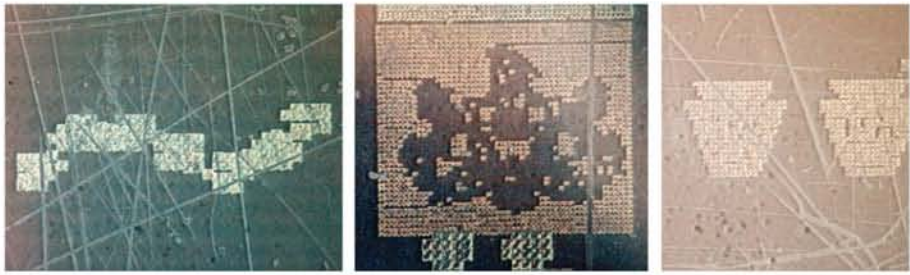
On reverse -

ID Chief – the most notorious internet based counterfeit house



ID Chief was present on the internet for many years and the site is now down. However, they produced and sold many hundred thousand counterfeits and more than a dozen jurisdictions were targeted.

ID Chief Example Hologram



Low Resolution Hologram
Imprecise Hologram



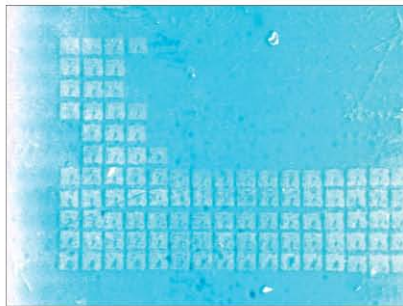
High Resolution Hologram
Precise Vector Hologram

Poor Quality of Holograms

ID Chief's holographic applied laminate patches are typically of low resolution, with poor recreations of the elements.

In comparison with the authentic applied laminate patches, the elements are typically not crisp – showing only a poor outline of photographic images, or choppy renditions of the line work or other security features.

Additional Optical Variable Device (OVD) variances can be confirmed with use of a microscope, clearly showing the counterfeit's difference in clarity and image resolution.



Hologram
Low Resolution
Imprecise
Not mastered



Hologram
High Resolution
Precise Vector
Mastered

Some present day Internet Sources



ADVERTISING FROM COUNTERFEIT VENDORS:

<http://statigr.am/noveltyidstore>

<http://statigr.am/noveltylicensestore>

<http://statigr.am/getafakeid>

<http://statigr.am/fakesplanet>

<http://statigr.am/unccfakes>

Counterfeiter's supply chain



Where do they get their materials
Where do they get their printing
equipment

Transparent Cards available: 1 – 800 - China



Specifications

1. over 10 years experience for producing
2. wonderful color printing
3. Approved ISO/SGS
4. Strict for QC

Window Transparent Card

1. Material:	PVC/ABS/PET/PS
2. Size:	ISO CR80 Standard: 85.5mm*54mm or on demand
3. Thickness:	ISO standard 0.76mm, other size is available 0.03mm/0.38mm/0.5mm/0.76mm or according your requirement.
4. Minimum QTY:	1000pcs
5 Available crafts:	scratch-off panel, series number punch, pin number, 4 color offset printing, magnetic stripe, embossing number, signature panel, photo, barcode, hot-stamping gold/shiver color, hole punched, UV Printing etc.
6. Applications:	Club, visiting, promotion, advertising, enterprises, bank, traffic, insurance, super marketing, parking, school, access control, ect. Surface option: glossy, matte/rough matte/ frosting transparent/ transparent
7. Price terms:	We accept FOB /CNF/CIF price. Payment: T/T or Western Union.
8. Lead time:	5~7days after the receipt of 50% deposit of the total payment (below 50000 pcs.)
9. Delivery way:	By express, by sea or air
10. Package details:	Packaging Details (for standard size): White Box: 22.5 cm 250 PCS /BOX, Our Carton: 13× 23.5× 50 cm, 10Boxes/CTN.Or on demand.
11. Standard size card weights (only for reference)	1,000pcs 6KG 5,000pcs 30KG
12. Sample Availability:	Free samples are available .
13. Certificate:	ISO 9001-2000, SGS, ICCR, ISO 14443A 14443B
Remark:	That is one of our cards . We are glad to show you other design . Your design is possible to achieve !

Communicate with Supplier



Ms. Tan:
What can I do for you?



Chat Now!



Contact Supplier



Suggestions

Where counterfeiters get equipment



1. Ebay for YAG lasers and OTC printers
2. Order direct from an issuing company (eg – Rofin for YAG laser or www.semicron.com for cards/laminate/printers)
3. For holograms – internet suppliers
1 – 800 – china at eg – <http://sell.bizrice.com>

Techniques Used to mimic Features/photos



1. Screen printing – tactile features and OVIs
2. Ink Jet followed quickly by the desired material (e.g. – glitter)
3. Transfer sheets like T shirt print and transfer films
4. Hand-held dies for cutting out holes and for embossing features

Techniques to simulate laser engraving and clear windows



1. Purchase specialty cards and D2T2 print black images/text; front and back
2. Purchase PC with inkjet coatings and reverse print images/text; then laminate to white base; die cut
3. For window character: die cut hole in white base and fill with equal caliper clear film prior to laminating

Summary: Counterfeiting Today



- 1. Prime Mode** – Simulation from Internet based suppliers; you email or upload photo, demographic information and payment; they mail you the card
- 2. Secondary Mode** – small scale operation orders equipment and supplies on internet; business by referral; typical college enterprise

We have gone from knowing a
guy who knows a guy

To

Connect on the internet; order on
the internet and receive in the US
Mail