

New Virginia Driver's License Security Features

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PRESENTED TO THE
Virginia State Crime Commission

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Overview

Driver's license card technology

- Card construction
- Production equipment
- Security features

New Virginia driver's license

- Implementation
- Design features
- Security features
- Temporary driving permit
- Sample card types

Discussion, questions & answers



Card Technology - Construction

Current driver's licenses

- Poly-vinyl chloride (PVC) material
- Dye sublimation personal data printing
- Adhesive vinyl security overlay
- Laminated construction

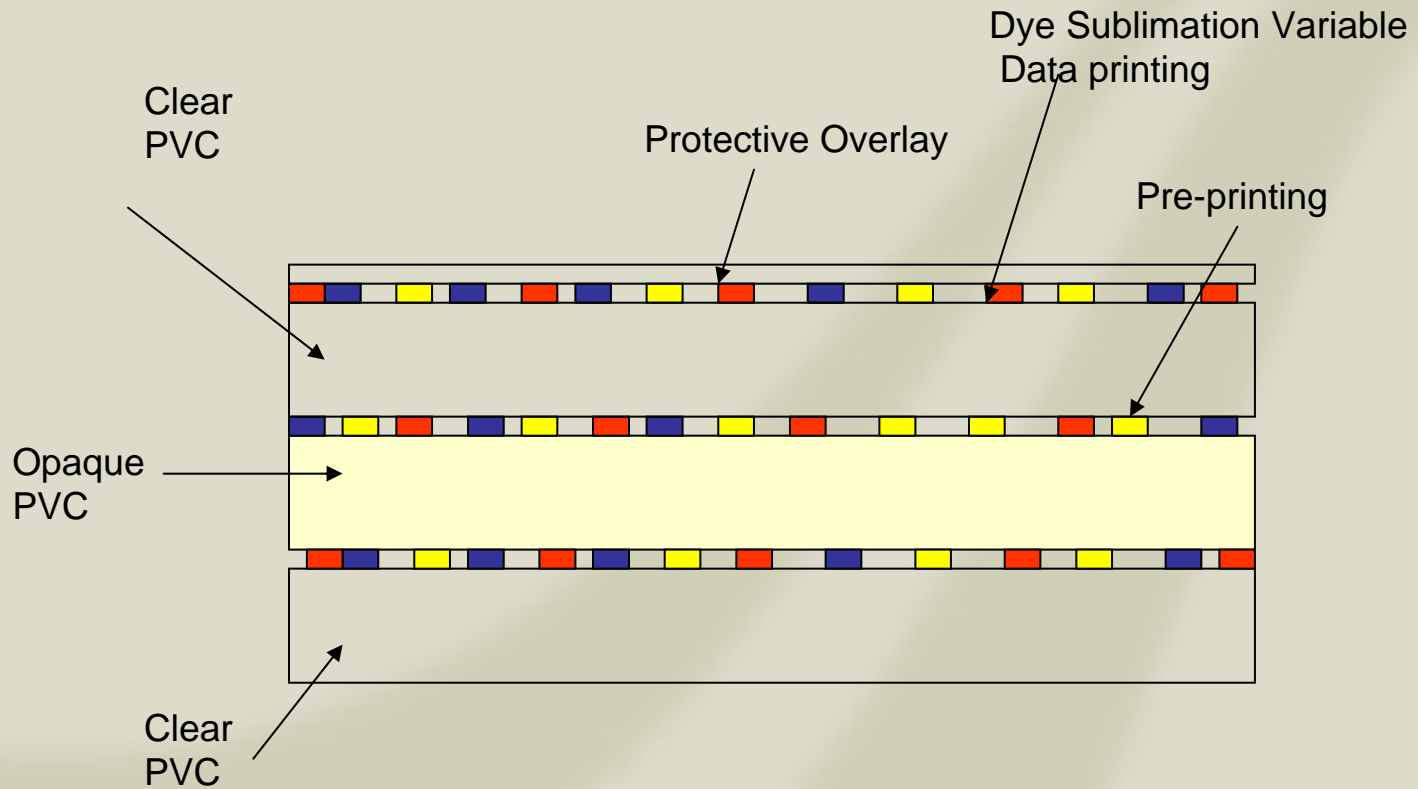
New driver's licenses

- Polycarbonate (PC) material
- Laser engraved personal data
- Security printed graphic designs
- Monolithic construction



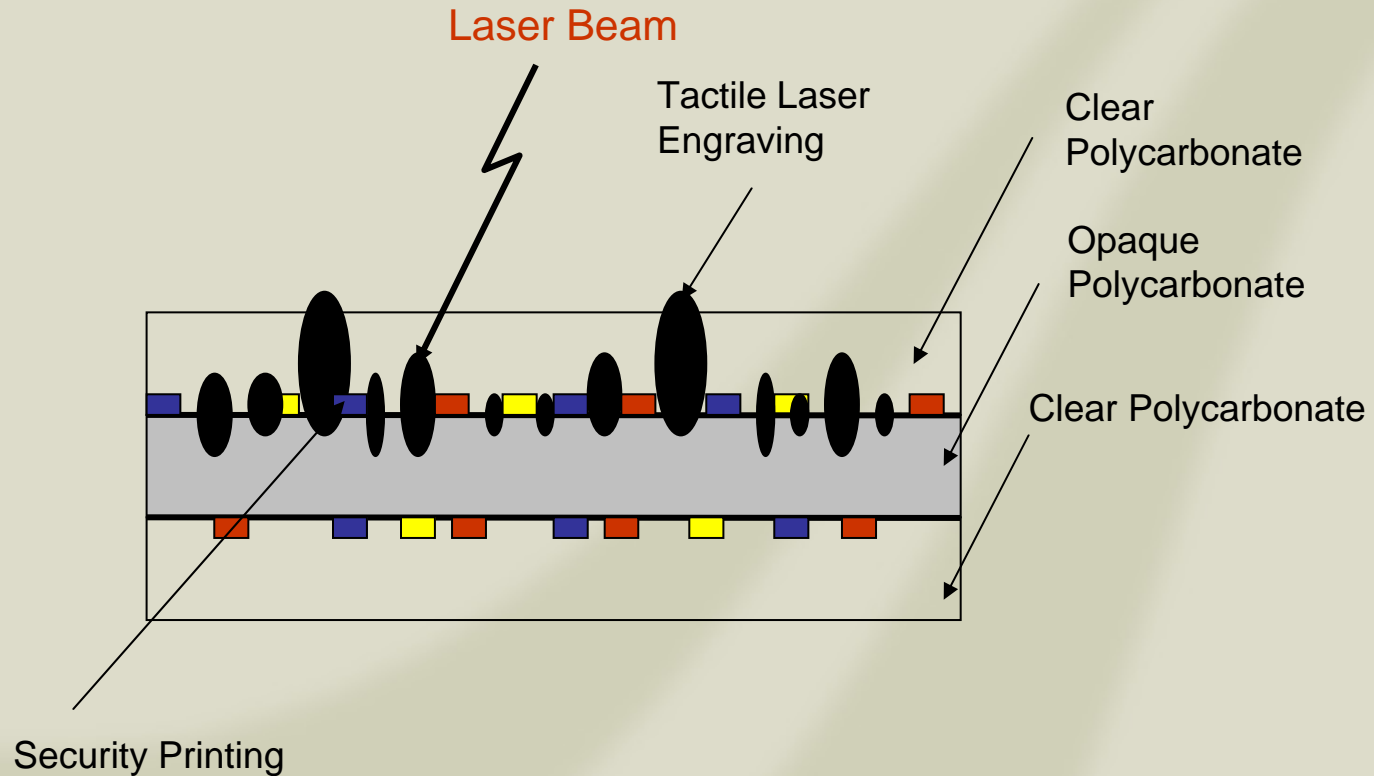
Card Technology - Construction

Current driver's license



Card Technology - Construction

New driver's license



Card Technology - Production

Current driver's licenses

- Over-the-counter (OTC) issue
- Printers at every DMV office
- Card materials at every DMV office
- No after-hours onsite security

New driver's licenses

- Driver's license central issue (DLCI)
- Card blank production at manufacturer
- Card personalization at production center
- 24 hour armed security onsite



Card Technology - Production

Current driver's license



Home printers and laminators
from \$75 to \$250



Laminating desktop printers
from \$750 to \$2,000

Commercial laminating printers
from \$5,000 to \$10,000



Card Technology - Production

New driver's license



Card security printing, card sheet fusion and card blank production are done in a secure Canadian Banknote manufacturing facility in Canada that prints Canadian currency



Card Technology - Production

New driver's license

Card security printing and laminating equipment are only available to legitimate manufacturers and require substantial investment



Card Technology - Production

New driver's license



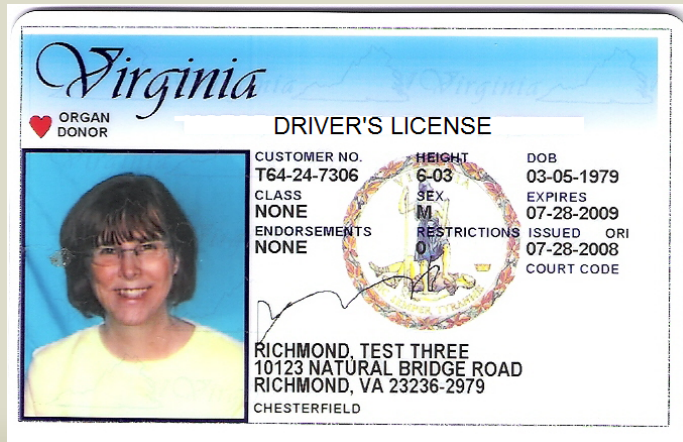
Card personalization is done on high tech laser engraving equipment at a new secure production facility in Danville



Card Technology - Security

Current driver's licenses

- Security overlay with reflective design
- Microprint border with deliberate error
- 1D and 2D barcodes with personal data



Card Technology - Security

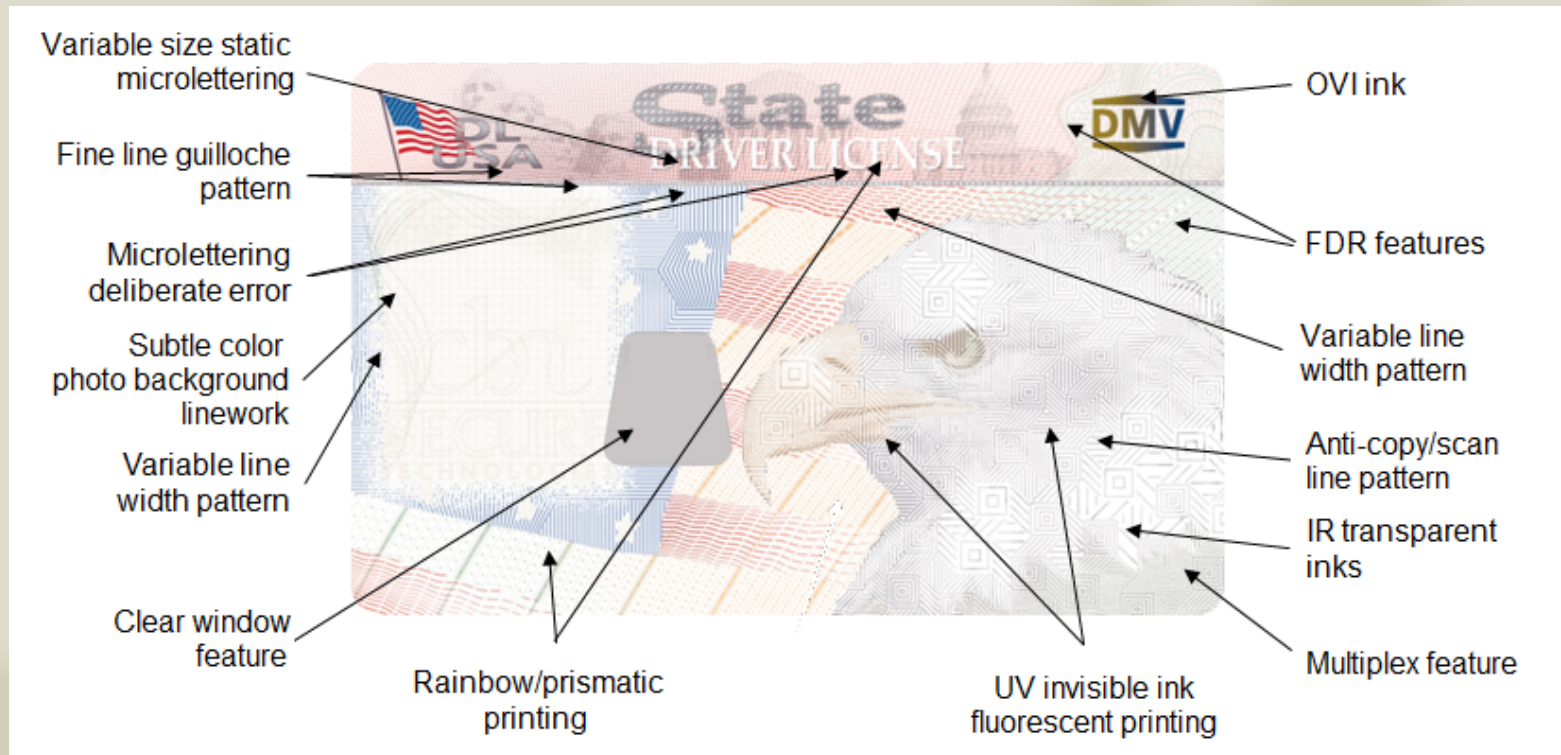
New driver's licenses

- Security printed graphic designs
- Tactile black and clear laser engraving
- Laser engraved grayscale primary photo
- Microprinting with deliberate errors
- Variable wave printing feature
- Clear window secondary photo
- Ultraviolet (UV) security printed design
- Redundant personal data
- Personal data on card front and back
- 2D barcode with personal data
- 1D barcode individual card serial number



Card Technology - Security

Security features applied at manufacturing in the Canadian manufacturing plant



Card Technology - Security

Security features applied at personalization at the Danville production facility



New Virginia Driver's License

DMV started issuing the new secure driver's licenses and identification cards in March 2009.

The clear window photo is the most distinctive feature. Virginia is the third deployment of this worldwide. Northwest Territories, Canada, was first in 2006 and Sweden was second in 2007.

These new secure cards will be mailed to applicants' home addresses instead of handed to them over the counter at the DMV office.

Applicants will receive a temporary paper driving permit receipt to use with their old license or ID until they receive the new card.



New Card Design Features

Polycarbonate card construction features:

- Currency grade security printing on internal layers during manufacture of card blanks
- Multiple layers are fused into solid body that cannot be delaminated
- Clear window secondary photo

Laser engraved personalization features:

- Black printing burned into card body
- Grayscale photos burned into card body
- Tactile raised black engraving
- Tactile raised clear engraving



New Card Design Features

New card design and format changes:

- Underage dates are printed in black
- Organ donor heart is printed in black
- No red R for court restrictions
- No printed residence jurisdiction
- Smaller printing on card back for class, restrictions and endorsements
- Printed “Unable to sign” for signature when person cannot sign name
- Paper temporary driving permit receipt will be used until real DL is received by mail



New Card Design Features

Underage card design features:

- Vertical card format like current cards
- Unique dogwood flower design instead of Capitol design used for all over 21 cards
- UNDER 21 printed in card banner
- UNDER 21 printed on card back
- Bracketed UNDER 18 UNTIL date
- Bracketed UNDER 21 UNTIL date
- Tactile raised engraving date of birth
- All dates grouped across card bottom

