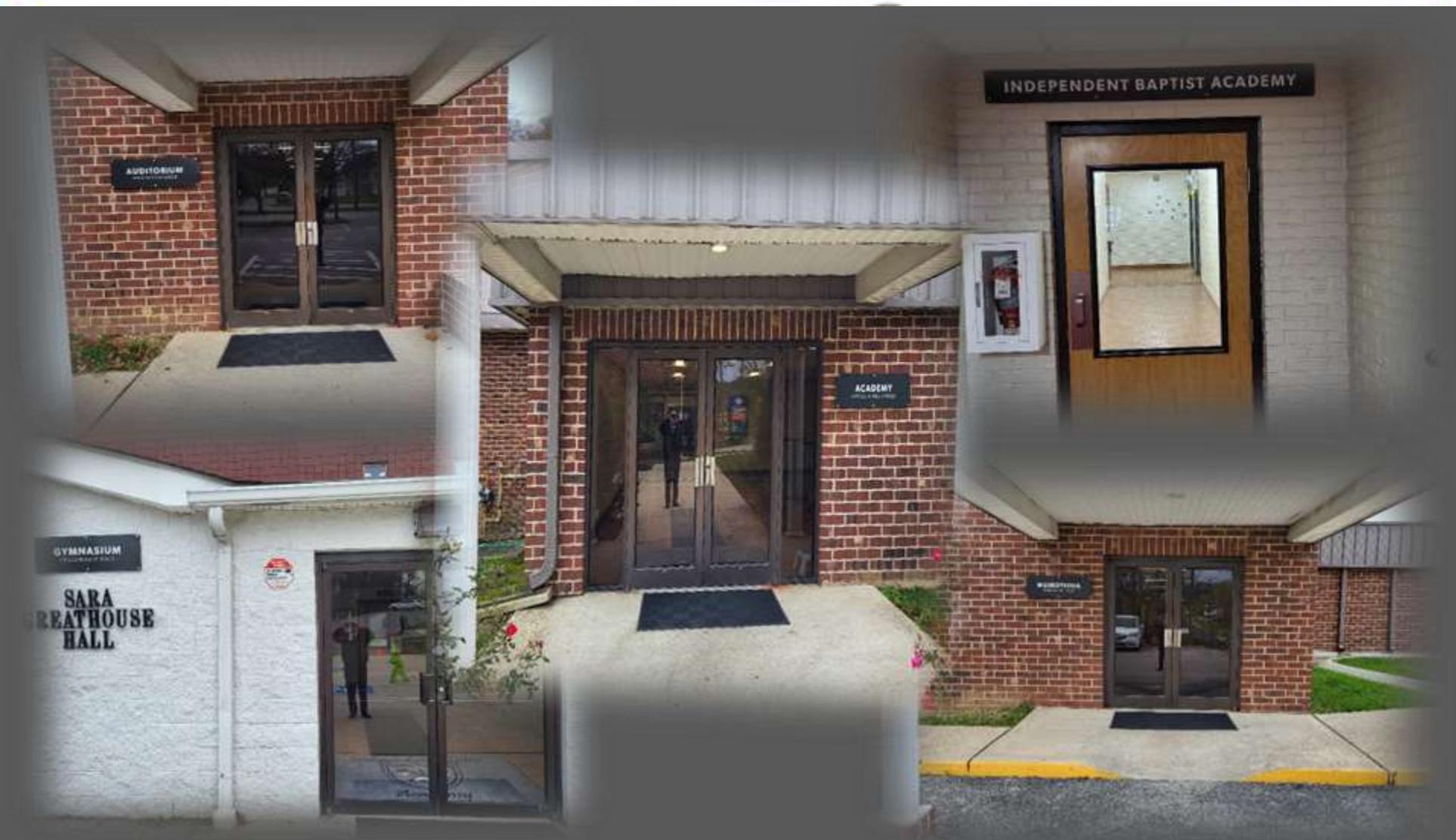


# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information



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Secure, Encrypted, and Instant Access to Vital Life Saving Information



After September 11<sup>th</sup>, school shootings, and other critical incidents, interoperability has been identified as a major challenge for first responders. With multiple agencies/first responders attempting to access communications and directives current technology/systems are overwhelmed.

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Too many times Police and Schools are in the news and criticized for delays in their response and lack of coordination responding to critical incidents.

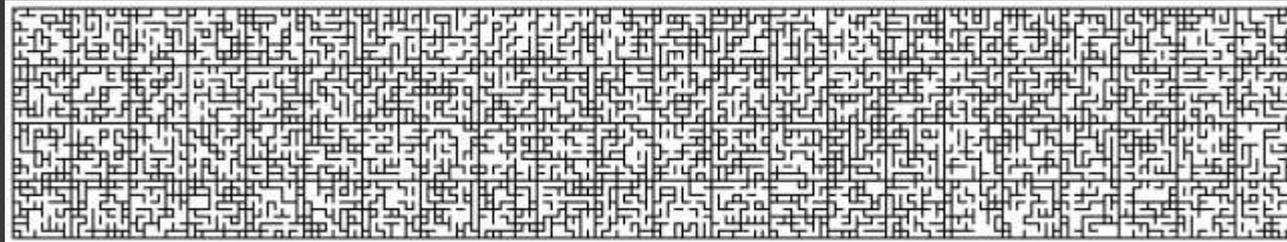
## **Problems:**

**Initial Arrival:** Securing schools at a moment's notice, lack of knowledge of the school layout by first responders, and lack of interoperability between agencies.

**Students and School Staff:** immediate identification of students and school staff, secure contact information for students and school staff, and reunification of students and school staff with families.

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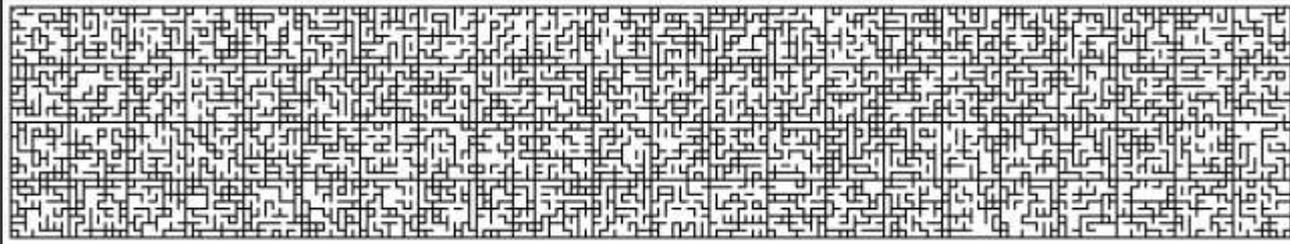


## Solution:

**HD CypherCode:** When seconds count, HD CypherCode provides all the information in the code that allows only authorized personnel access to detailed information and location maps utilizing a secure app on an authorized reader that stays with them...not back in their cars or office. HD CypherCode is an encrypted memory stick on paper that can hold up to 50,000 times more data than a retail store UPC code. ***No Internet, database or connectivity is required.*** Secure non-public access can be provided to all agencies eliminating the challenges of interoperability between agencies.

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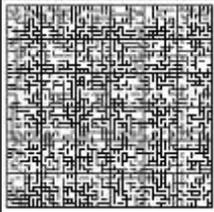


**HD CypherCode the most advanced, secure, encrypted 2D barcode in the world for first responders and individuals.**

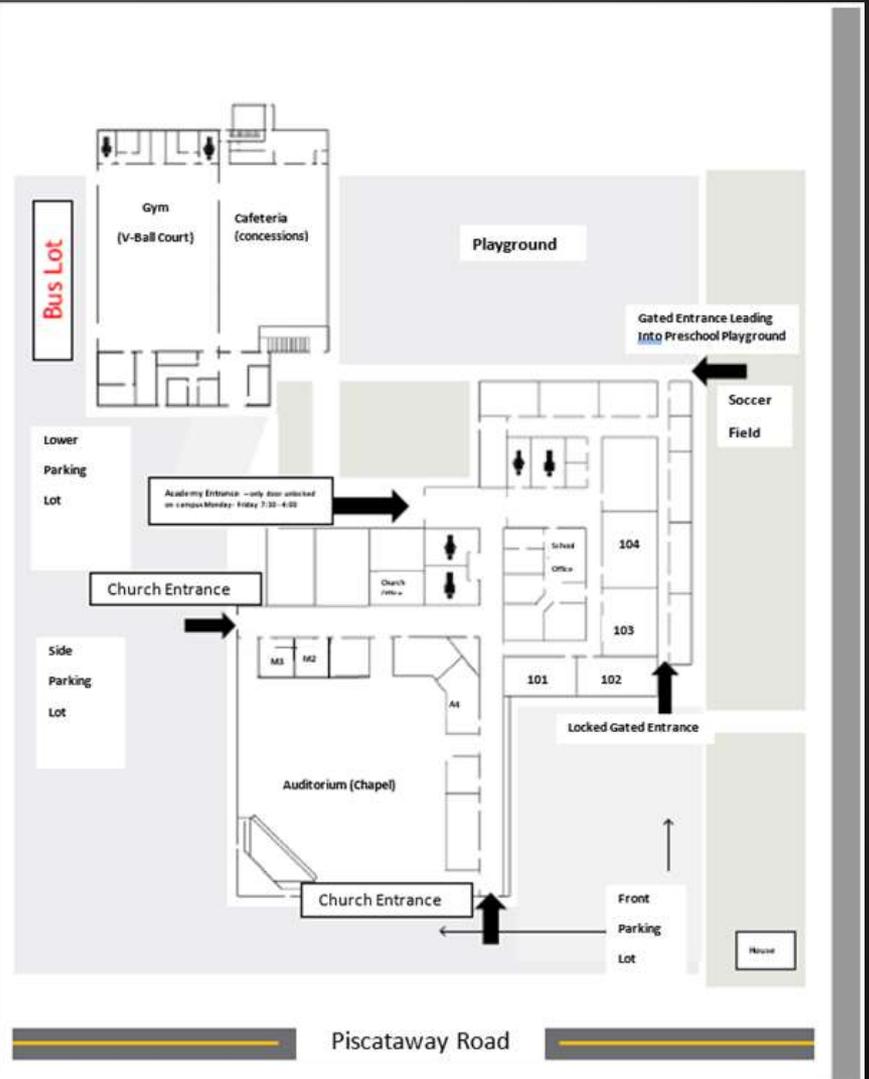
HD CypherCodes allow only authorized first responders with the matching app to read encrypted codes. HD CypherCodes can contain detailed maps and instructions that are encrypted/private and only readable via an authorized Smartphone or Tablet. The faster first responders have detailed site information, the faster they can work together to resolve the incident. HD CypherCodes can provide access to detailed pre-operation action plans including command post and staging locations.

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HD CypherCodes printed on a water-resistant PPG *Teslin*™ label will be affixed at each entrance and classroom at the Academy. Each label will embed information concerning the Academy layout or map of the building, blueprints, diagrams, and emergency contact number of administrative and support staff at the Academy.



# HD SafeStudent

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An additional code will be placed at classrooms, noting the teacher's cell number, students and emergency contact number(s).

## Door Label Information



9255 Piscataway Rd	HD SafeStudent
<b>Classroom Information</b>	
Building	1
Room	101
Teacher	Ben Dowdey
Classroom Telephone	301-856-XXXX
Teacher Cellphone	301-856-XXXX
Student Count	12
Additional Information	Exterior Exit
<b>Students</b>	
Name	Student Billy
Name	Student Mary
Name	Student Joe

# HD SafeStudent

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HD CypherCodes will also be provided on a *Teslin* sheet of paper and supplied to Police Officers and Firemen as a backup. If the coded sheets are lost, they cannot be read or changed by unauthorized individuals.



When radio and internet communication is out First Responders can still get direction and coordinate response with HD CypherCodes. The information can be in the First Responders hands for review/direction saving time and coordinating efforts.

# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information

HD CypherCode form fillable application creates HD CypherCodes to be printed on a water-resistant PPG *Teslin*<sup>TM</sup> labels.

## HD Safe Student Cyphercode Software

With custom fillable forms

The screenshot displays the HD Safe Student Cyphercode Software interface. The window title is "Cayzer Data Technology - Collectible". The interface is divided into several sections:

- HD SafeStudent** logo at the top left.
- Admin Login** section with fields for "Admin" and "Password", a "Remember Me" checkbox, and "Login", "Logout", and "Settings" buttons.
- Add New Fields** section with a red header "Classroom Information" and fields for "Building", "Room", "Teacher", "Classroom Telephone", "Teacher Cellphone", "Student Count", and "Additional Information". Below this is a red header "Students" with three "Name" fields.
- Form Size** section with a green bar and "Reset Form" and "Submit" buttons.
- Right Panel** with "Help" and "About" buttons, a list of "Classroom Information" entries, and buttons for "Print/Export Codes", "Import Forms", and "Scan Barcode".

# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information

Utilizing this approach, HD Barcode LLC has created secure programs to protect PII (Private Identifiable Information) yet have necessary lifesaving information available to First Responders. Unlike prior medical information programs that were accessible to anyone that could pick up and review the information, HD CypherCodes are secure, yet accessible to authorized First Responders, providing information that is secure, yet accessible without HIPAA violations.

## HD Safe Student Cyphercode Software

With custom fillable forms

The screenshot displays the HD Safe Student Cyphercode Software interface. The top left corner features the 'HD SafeStudent' logo. The main interface is divided into several sections:

- Admin Login:** A green box containing a 'Name' field, a 'Cyphercode' field, and buttons for 'Login', 'Logout', and 'Settings'. Below the fields, it says 'Successfully Logged in:'.
- Add New Fields:** A section with a red header 'Classroom Information' containing fields for Building, Room, Teacher, Classroom Telephone, Teacher Cellphone, Student Count, and Additional Information. Below this is a red header 'Students' with three 'Name' fields.
- Form:** A large form area with a red header 'Classroom Information' and the same fields as the 'Add New Fields' section. Below it is a red header 'Students' with three 'Name' fields. At the bottom of the form is a 'Form Size' indicator and 'Reset Form' and 'Submit' buttons.
- Right Panel:** A vertical panel with 'Help' and 'About' buttons at the top, a list of items, and buttons for 'Print/Export Codes', 'Import Forms', and 'Scan Barcode' at the bottom.

# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information

When the CypherCode is created, all information is customized as required to identify the facility, staff and students, photographs can also be embedded in the HD CypherCode.

## HD Safe Student Cyphercode Software

With custom fillable forms

The screenshot displays the HD Safe Student Cyphercode Software interface. The main window is titled "HD SafeStudent" and features a green header. The interface is divided into several sections:

- Admin Login:** A green box containing a "Admin Login" section with input fields for "Admin" and "Password", a "Remember Me" checkbox, and "Login", "Logout", and "Settings" buttons.
- Add New Fields:** A section with a red header "Add New Fields" containing a sub-section "Classroom Information" with fields for Building, Room, Teacher, Classroom Telephone, Teacher Cellphone, Student Count, and Additional Information. Below this is a "Students" section with three "Name" input fields.
- Form Size:** A green bar at the bottom of the form area with a "Form Size" label.
- Buttons:** "Reset Form" and "Submit" buttons are located at the bottom of the form area.
- Right Panel:** A vertical panel on the right side with "Help" and "About" buttons at the top, a list of items, and "Print/Export Codes", "Import Forms", and "Scan Barcode" buttons at the bottom.

# HD SafeStudent

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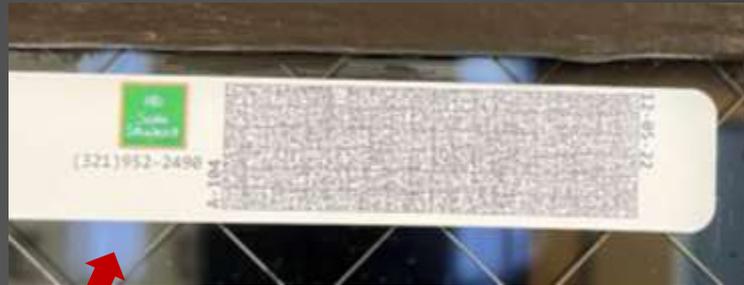
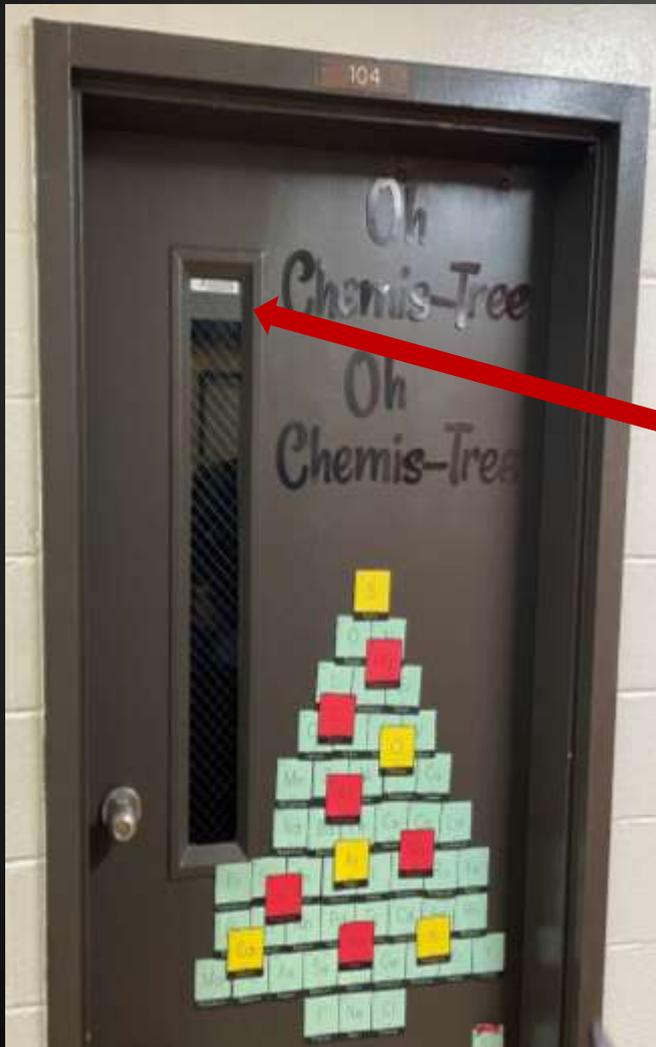


HD CypherCode labels can be placed in common areas, halls, windows, and doors, to be accessible.



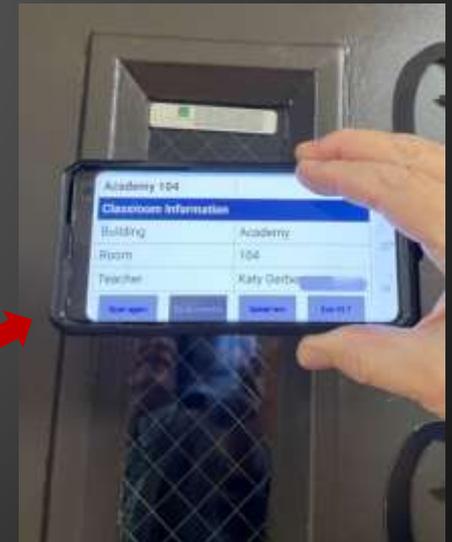
# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information



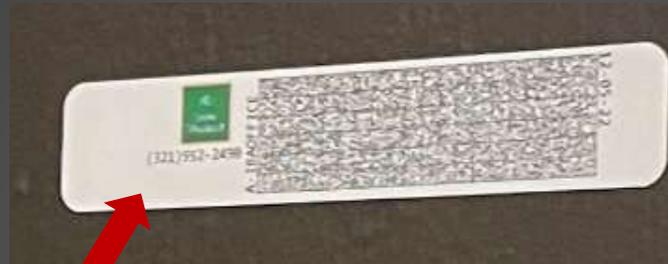
HD CypherCode label placed on classroom door window.

CypherCode decoded and displayed with authorized app on android tablet/phone



# HD SafeStudent

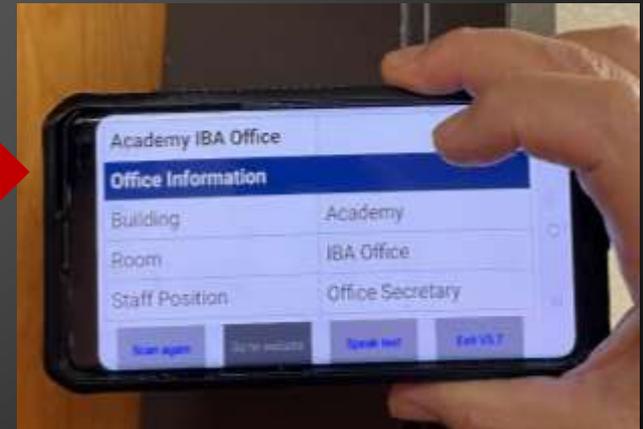
Secure, Encrypted, and Instant Access to Vital Life Saving Information



HD CypherCode label placed on metal door frame.

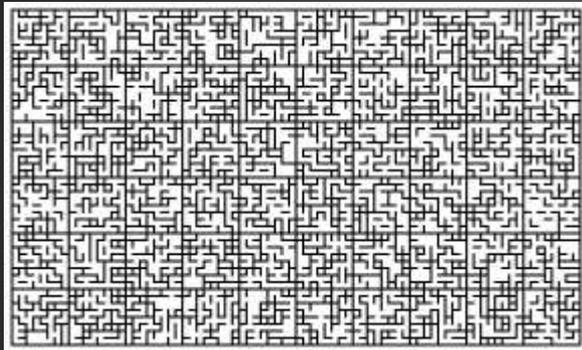


CypherCode decoded and displayed with authorized app on android tablet/phone

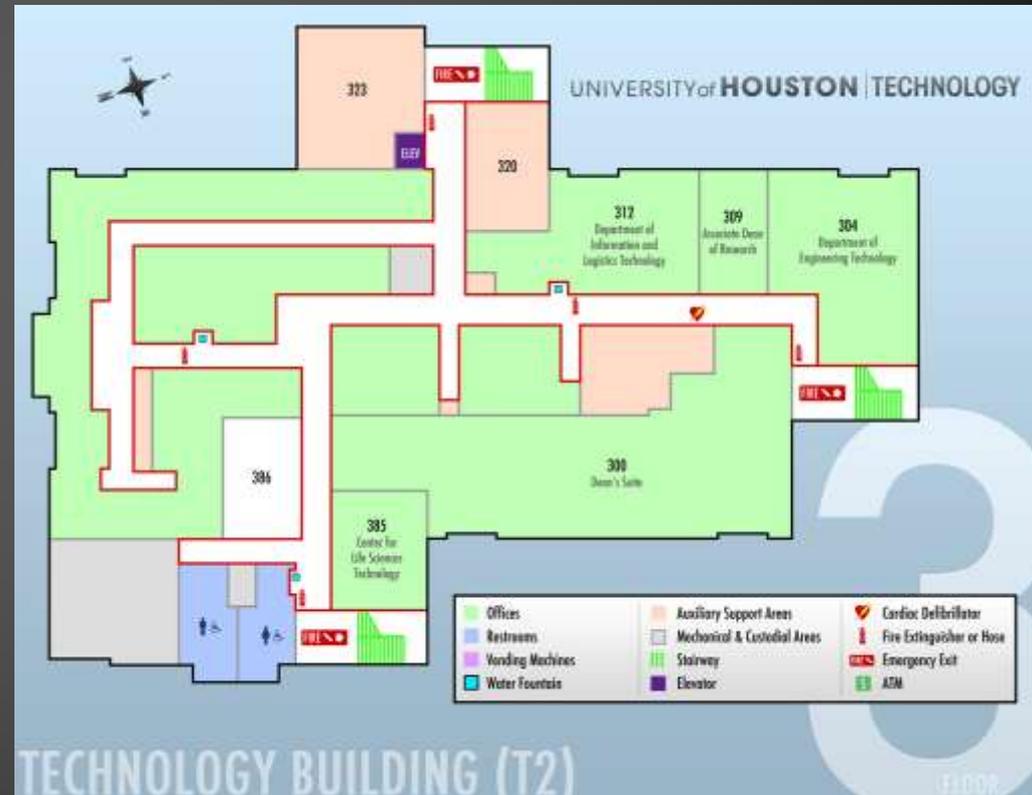


# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information

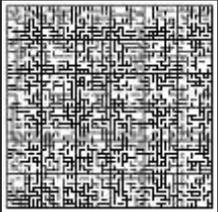


HD CypherCodes can contain:  
Directives, Building/Site  
Identification, Point of Contacts,  
Legends and Locations for  
Hazardous Materials, Access and  
Shut Off Points, Entry/Exit Points,  
and more based on site/location  
needs.



# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information



HD CypherCodes can blend images and site specific information to provide detailed directives. All with no radio, internet or cellular connection required.

*The information is in the CypherCode!*



# HD SafeStudent

Secure, Encrypted, and Instant Access to Vital Life Saving Information

## HD Barcode Advantages

- **Internet:** No Database or Internet is required to decode the information, but a link can be provided if desired.
- **Smartphone Speech Option:** The code has the capability to have the information in the code provided as a voice readout in many languages.
- **Language Input:** The HD CypherCode can be generated in any Unicode based language.
- **HTML or Zip files:** The code can be stored as either HTML or zipped files.
- **Printing:** The HD CypherCode can be printed in the same manner as any other barcode with the advantage that lines are easier to print than squares.
- **HD CypherCode Density:** The code can be programmed to decrease the separation between lines and spaces to compact more data in a smaller code. The amount that can be done is based on the resolution of the reading device.
- **Android or iPhones:** The code can be programmed to read with either type Smartphones

# HD SafeStudent

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## HD Barcode Advantages

- **Code Generator:** Only the Authorized Agencies will have the ability to create their own, unique HD CypherCode with their assigned number.
- **Public/Private Key Encryption:** The code can be provided with Public/Private key encryption, so only authorized readers can in fact read the code.
- **No Backdoor:** There is no backdoor or way for any person or company, including HD Barcode LLC to obtain the private key.
- **Reading Only:** The readers are always kept separate with the authorized app to read the code. Readers cannot reverse engineer the code:
- **Code Format Configurability:** Codes can be generated as lines or dots with squares or rectangles.
- **Vast Data Density:** The code has the ability to store both text and images in the code. Smartphones can read up to 7Kb to 10Kb of data, scanners up to 700Kb of data

# HD SafeStudent

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**Life Preserver**



**Thank you**

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