



Setup Guide for:

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104-984 Hikvision DS-K1T671M, Face Recognition Terminal  
INTERFACING TO NESS M1

Rev 1.0

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## Face Recognition on a NESS M1

Using a Hikvision wiegand capable face recognition terminal and NESS M1 Gold, it is possible to arm and disarm the panel, trigger outputs and start rules.

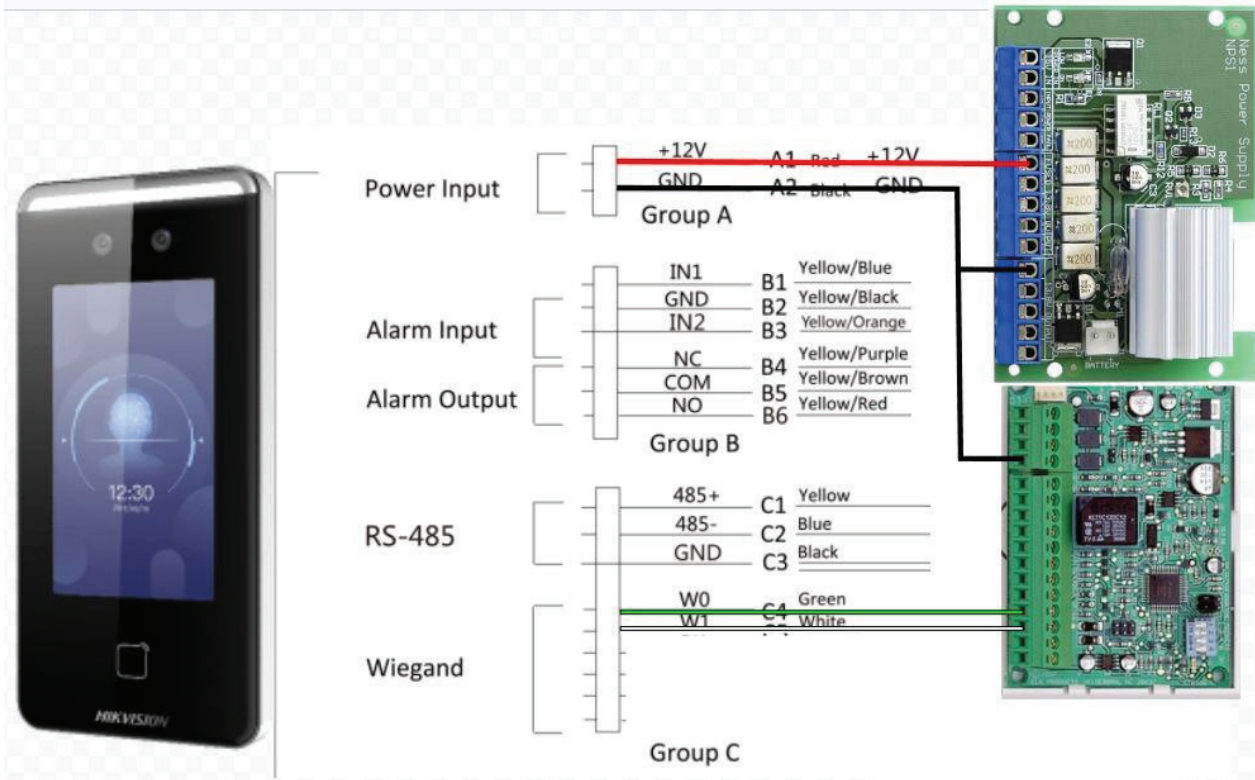
### **Example and How to:**

Products required for this configuration,

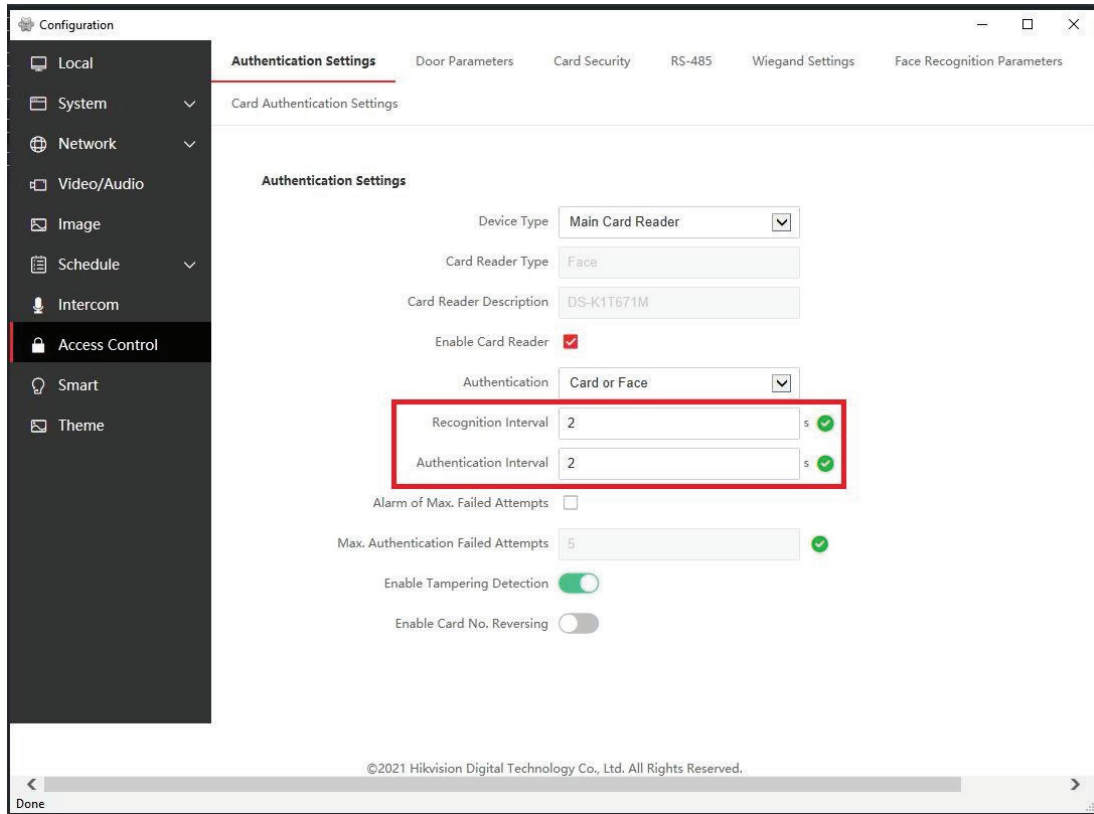
- M1 Gold panel
- 104-984 HIKVISION DS-K1T671M - Firmware V3.2.30 build 220210 at time of writing
- 101-245 - KAM Module or 101-256 - KP2 keypad
- 101-212 / 101-213 – output expander - Only if you are using the KP2 Keypad

HIKVISION DS-K1T671M (based on firmware V3.2.30 build 220210) Connected to a M1 Gold

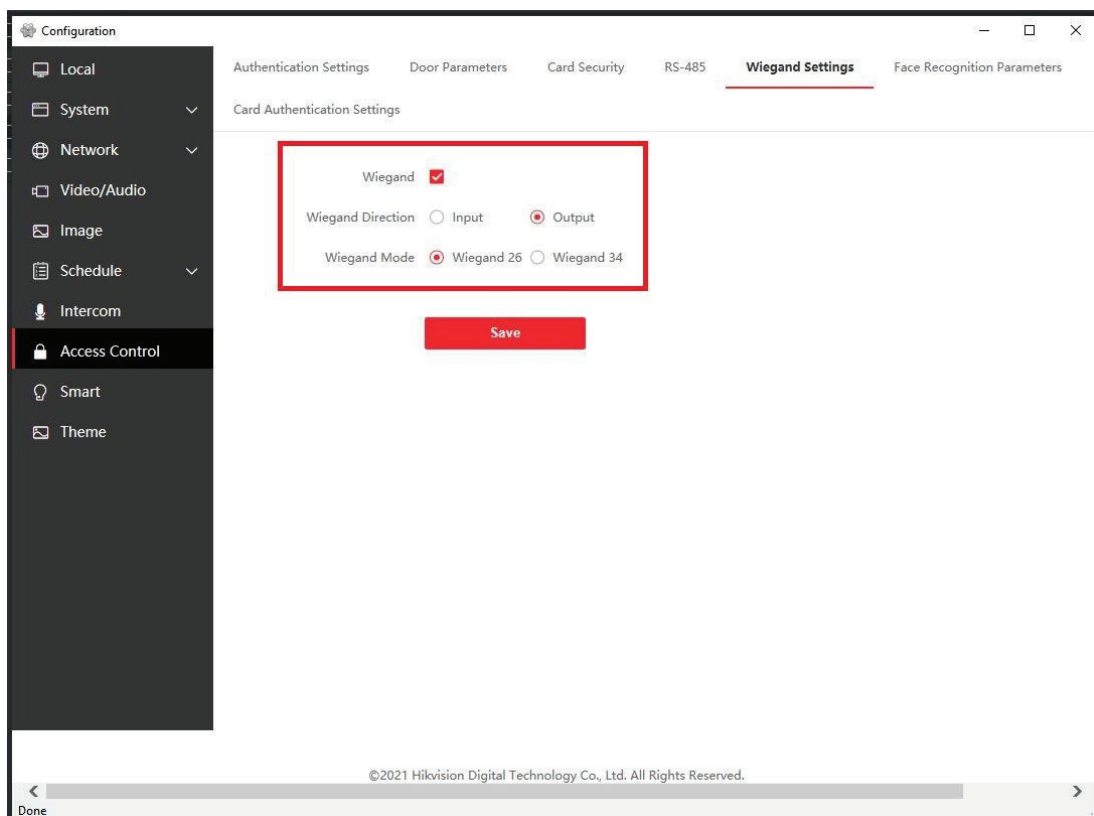
**Step 1:** Wire device as per below



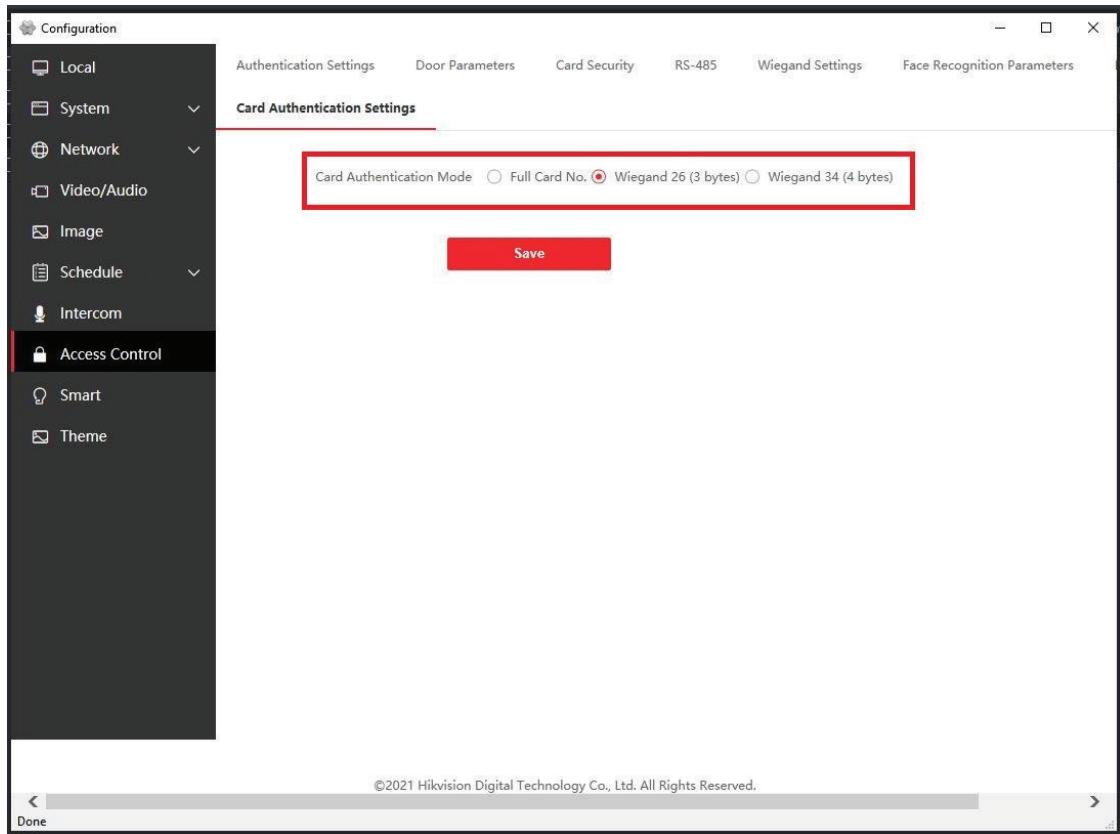
**Step 2:** Using iVMS4200, set recognition interval & authentication interval to 2 Seconds in the settings of the DS-K1T671M. Can be changed to 1 second if desired, unique to the M1.



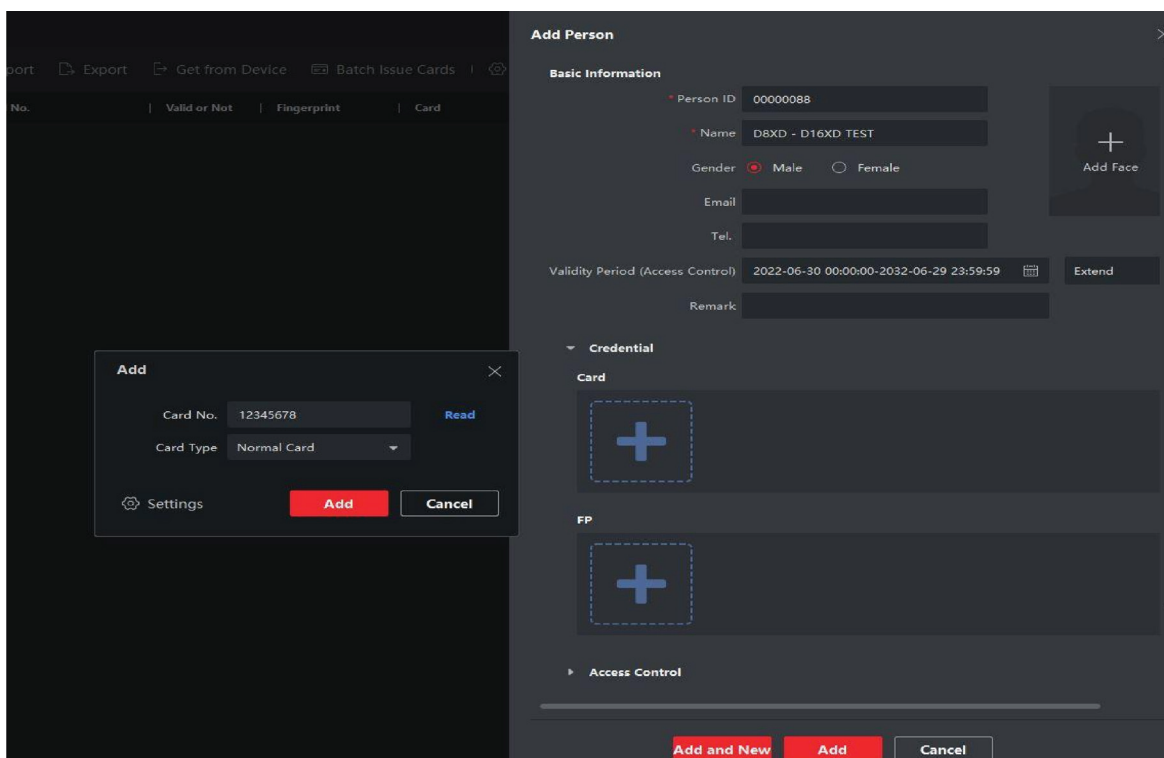
**Step 3:** Make sure you select Wiegand > output > Wiegand 26



**Step 4:** In Card Authentication Settings Wiegand 26 (3 bytes)



**Step 5:** In iVMS4200 add a Person/user, to the Access control & add a Card Number



**Step 6:** Upload a clean & clear photo of the users face.

### Add Person

**Basic Information**

\* Person ID: 00000089

\* Name: D8XD - D16XD TEST

Gender:  Male  Female

Email: \_\_\_\_\_

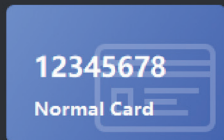

Tel.: \_\_\_\_\_

Validity Period (Access Control): 2022-07-01 00:00:00-2032-06-30 23:59:59 Extend


Remark: \_\_\_\_\_

**Credential**


**Card**

**FP**



**Iris**



Add and New Add Cancel

**Step 7:** Create access rules for the schedule you would like the user to have access to.

The screenshot shows an 'Edit' window for configuring an access rule. The window is titled 'Edit' and has a close button in the top right corner. It contains the following fields and options:

- Name:** A text input field containing 'D8XD Test'.
- Template:** A dropdown menu set to 'All-Day Authorized'.
- Select Person:** A selection interface with two panes: 'Available' and 'Selected (1)'.
  - The 'Available' pane has a search bar and a list of items: 'New Organization' (with a minus icon), 'NESS Corporation' (with a plus icon), and 'D8XD - D16XD TEST' (with a plus icon and a red checkmark).
  - The 'Selected (1)' pane has a search bar and one item: 'D8XD - D16XD TEST' (with a minus icon).
  - A 'Clear' button with a trash icon is located to the right of the 'Selected (1)' pane.
- Select Access Point:** A selection interface with two panes: 'Available' and 'Selected (1)'.
  - The 'Available' pane has a search bar and a list of items: 'ness' (with a plus icon), 'Front Door Face Rec' (with a plus icon), and 'test' (with a plus icon and a red checkmark).
  - The 'Selected (1)' pane has a search bar and one item: 'Door1\_test' (with a minus icon).
  - A 'Clear' button with a trash icon is located to the right of the 'Selected (1)' pane.

At the bottom of the window, there are two buttons: a red 'Save' button and a white 'Cancel' button.

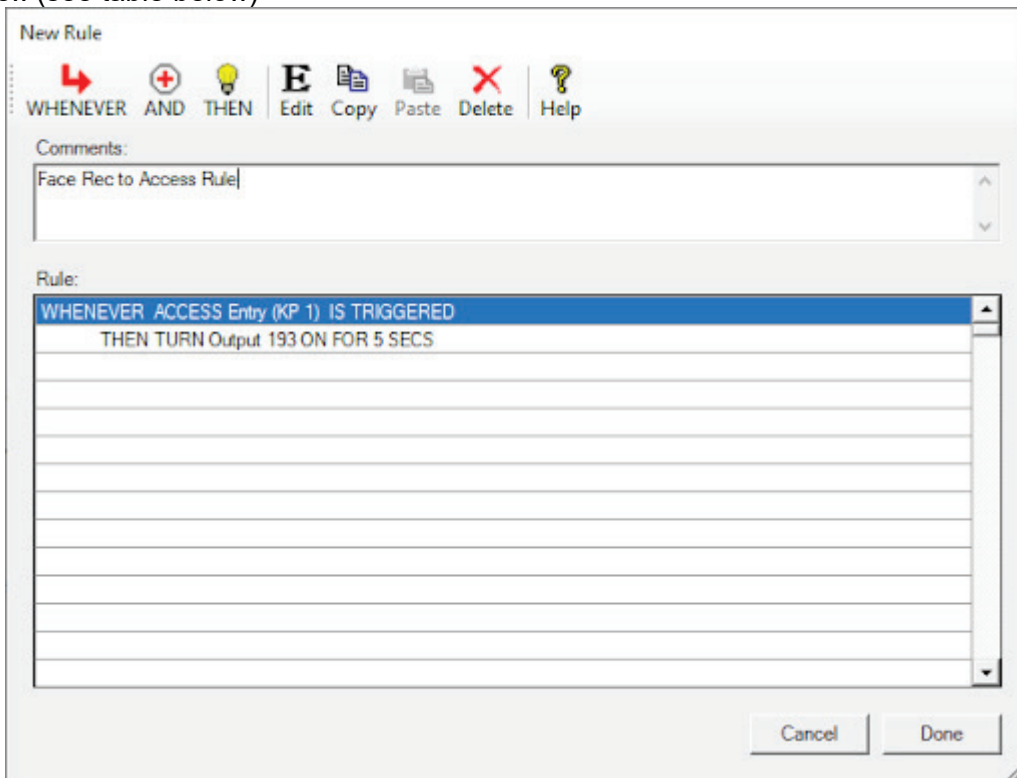
**Step 8:** Using Elk RP2 create a new user, tick the “User has access credential box” Set the site code to the card or PIN being used.. in this example the site (Facility) code is 123 and the card number being 45678

The screenshot shows a web-based user configuration interface. At the top, it displays 'User: 2' and 'User's Name' as 'Face Rec User 2'. Below this is a 'User Code' field containing '02F764DD0000' and a 'Generate a random code' button with a 'Generate' sub-button. A checkbox labeled 'User has an access credential instead of a code (card, fob, iButton, numeric prox keypad)' is checked. Below this are 'Facility Code' (123) and 'Card/PIN Number' (45678) dropdown menus. On the right side, there is a 'Send to Control' button, a 'Not Connected' status indicator, and a 'Help' button. The bottom section is divided into two panels: 'Areas' and 'User Authorizations'. The 'Areas' panel lists areas 1 through 8, with area 1 checked and 'Select All' and 'Clear All (Except Area 1)' buttons. A note states 'At least one area must be selected.' The 'User Authorizations' panel includes checkboxes for 'Arm', 'Disarm', 'Bypass', 'Access' (checked), 'Temporary Code', 'Master', 'User Menu 1-5 Allowed' (checked), and 'Duress'. A note for 'User Menu 1-5 Allowed' states '(Valid only if Globals option "Menus 1-5 Require Code" is checked.)'

**Step 9:** Enter the Card / PIN number and a 12 Digit Hex number is then generated.. Tick the Access box and set the areas that the code will have access to.. Click Send to Control..

**Step 10:** Go to RULES in Elk RP2 software and create the following rule for simple access control. Click WHENEVER then Security/Alarms tab then Access tab.. A box will appear to set which keypad / KAM is the access point..

**Step 11:** Click THEN then Output On/Off tab then select the output assigned to the keypad / KAM module.. (see table below)





Keypad / KAM Address to Zone and Outputs  
1 = Zone / Output 193 9 = Zone / Output 201  
2 = Zone / Output 194 10 = Zone / Output 202  
3 = Zone / Output 195 11 = Zone / Output 203  
4 = Zone / Output 196 12 = Zone / Output 204  
5 = Zone / Output 197 13 = Zone / Output 205  
6 = Zone / Output 198 14 = Zone / Output 206  
7 = Zone / Output 199 15 = Zone / Output 207  
8 = Zone / Output 200 16 = Zone / Output 208

**Notes:**

*\*The photo of the face uploaded to IVMS 4200 must not exceed 200KB. Clear passport style photos are suggested.*

*\*Please be aware in the event of power outage, depletion of the back-up battery may be faster than normal. In this example the back-up battery serves both the alarm and facial recognition.*

*\*This guide is using IVMS4200 and is based off V3.7.1.5 build20220401.*