

Setup Guide for:

104-984 Hikvision DS-K1T671M, Face Recognition Terminal INTERFACING TO NESS D18/D16

Rev 1.0

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Face Recognition on a D8xD/16xD

Using a Hikvision weigand capable face-recognition terminal and modern NESS D8xD/D16xD, it is possible to arm and disarm the panel.

Example and How to:

Products required for this configuration,

- D8XD / D16XD Version 9 or higher, includes XCEL
- 104-984 HIKVISION DS-K1T671M Firmware V3.2.30 build 220210 at time of writing
- 106-012 Ness Wiegand Interface
- 106-013 Ness Relay Board Only if you need to control a relay



HIKVISION DS-K1T671M (based on firmware V3.2.30 build 220210) Connected to a D8XD/D16XD

Step 1: Wire device as per below





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Step 2: Using iVMS4200, set recognition interval & authentication interval to 2 Seconds in the settings of the DS-K1T671M

💮 Configuration	_				- 🗆 X
🖵 Local	Authentication Settings	Door Parameters	Card Security RS-485	Wiegand Settings	Face Recognition Parameters
🖽 System 🗸 🗸	Card Authentication Settings				
. 🌐 Network 🗸 🗸					
t⊡ Video/Audio	Authentication Settings				
🖾 Image		Device Type	Main Card Reader	~	
📋 Schedule 🛛 🗸		Card Reader Type			
🞍 Intercom		Card Reader Description	DS-K1T671M		
Access Control		Enable Card Reader			
ධ Smart		Authentication	Card or Face	~	
🖾 Theme		Recognition Interval	2	s 🥥	
		Authentication Interval	2	s 🥥	
	Alarm	of Max. Failed Attempts			
	Max. Auther	ntication Failed Attempts	5	0	
	Enal	ble Tampering Detection			
	En	nable Card No. Reversing			
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Step 3: Make sure you select Wiegand > output > Wiegand 26

💮 Configuration		- 🗆	×
- 🖵 Local	Authentication Settings Door Parameters Card Security RS-485 Wiegand Settings	Face Recognition Parameters	
🖽 System 🗸 🗸	Card Authentication Settings		
🕀 Network 🗸 🗸			
- ŧ⊟ Video/Audio	Wiegand 🔽		
🖾 Image	Wiegand Direction 🔿 Input 💿 Output		
📋 Schedule 🛛 🗸	Wiegand Mode 💿 Wiegand 26 🔾 Wiegand 34		
🎍 Intercom			
Access Control	Save		
ට Smart			
🖾 Theme			
C Done	©2021 Hikvision Digital Technology Co., Ltd. All Rights Reserved.		>



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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

	Add Person	
port 🕒 Export 🕒 Get from Device 📼 Batch Issue Cards I 🐵	Basic Information	
No. Valid or Not Fingerprint Card	* Person ID 00000088	
	"Name D8XD - D16XD TEST	+
	Gender 💿 Male 🔿 Female	Add Face
	Tel.	
	Validity Period (Access Control) 2022-06-30 00:00:00-2032-06-29 23:59:59	Extend
	Remark	
	- Credential	
Add ×	Card	
Card No. 12345678 Read		
Card Type Normal Card 👻		
Settings Add Cancel		
	FP	
	Access Control	
	Add and New Add	
	Add and New Add Cancel	



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

Add Person		
Basic Information		
* Person ID	0000089	
* 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		
12345678 Normal Card		
FP		
Iris		
Add and I	New Add Cancel	





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

Step 8: Setup the D8x/D16x panel to enrol a card. Eg: on Navigator keypad P123E , P000000E , P256E, Extra Code options, Reader code 1, Program Access Card. See manual for other keypads.

Once in enrolling mode, have the user look and trigger the face recognition terminal. The face recognition terminal sends card number data the D8x/D16x will store for that user.



Step 9: Refer to options P301E, P318E, P319E to assign the D8, as to what you would like the Face Rec to control.

Option N	No.	Description	Default
P301E	1E	Use reader addresses	OFF
	2E	Arm with double read	ON
	ЗE	Arm with single read and pushbutton	OFF
	4E	Disarm with access card	ON
	5E	REX Input 1 (Zone 5 input)	OFF
	6E	REX Input 2 (Zone 6 input)	OFF
	7E	REX Input 3 (Zone 7 input)	OFF
	8E	Strobe Flash on Arm/Disarm by Reader	ON

P318E [1E–8E] Toggles the options.

1E ON: Reader 1 output to Aux1 (P121E 8E must also be on)
2E ON: Reader 1 output to Aux2 (P122E 8E must also be on)
3E ON: Reader 1 output to Aux3 (P123E 8E must also be on)
4E ON: Reader 1 output to Aux4 (P124E 8E must also be on)
5E ON: Reader 1 output to Aux5 (P151E 7E must also be on)
6E ON: Reader 1 output to Aux6 (P152E 7E must also be on)
7E ON: Reader 1 output to Aux7 (P153E 7E must also be on)
8E ON: Reader 1 output to Aux8 (P154E 7E must also be on)

Step 10: Test and adjust parameters if necessary. On the above example, having the face rec terminal recognise the face once (1) it will DISARM the alarm (see option P301E 4E) and, having the face rec terminal recognise the face twice (2) in a row, it will ARM the alarm (option P301E 2E).

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.



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