

PAC & Dahua (TMAC) Integration Guide

Thermal Monitoring Access Control Terminal



PAC Technical Bulletin



1 Introduction

PAC’s long-standing tradition of security integration with Time and Attendance, CCTV monitoring, and other building and occupancy control services is now extended to the Dahua Temperature Monitoring Terminal, which has functionality to check a person’s temperature and determine if a face mask is being worn when entering a building or area.

The ability to secure the building and protect the occupants is a true value add for customers planning strategies in times where minimizing the risk of infection and preventing the spread of the virus are critical. The recommended means of installation ensures that access rights for individuals can be dynamically managed. Taking an output from the Dahua Thermal Monitoring Terminal into the PAC access control system will withdraw access rights for anyone who does not meet the user configured thresholds.

This installation guide details the quick and easy install that enables these benefits.

1.1 Recommended Integration

The recommended integration of a Dahua Temperature Monitoring Terminal with a PAC Access Control system is to:

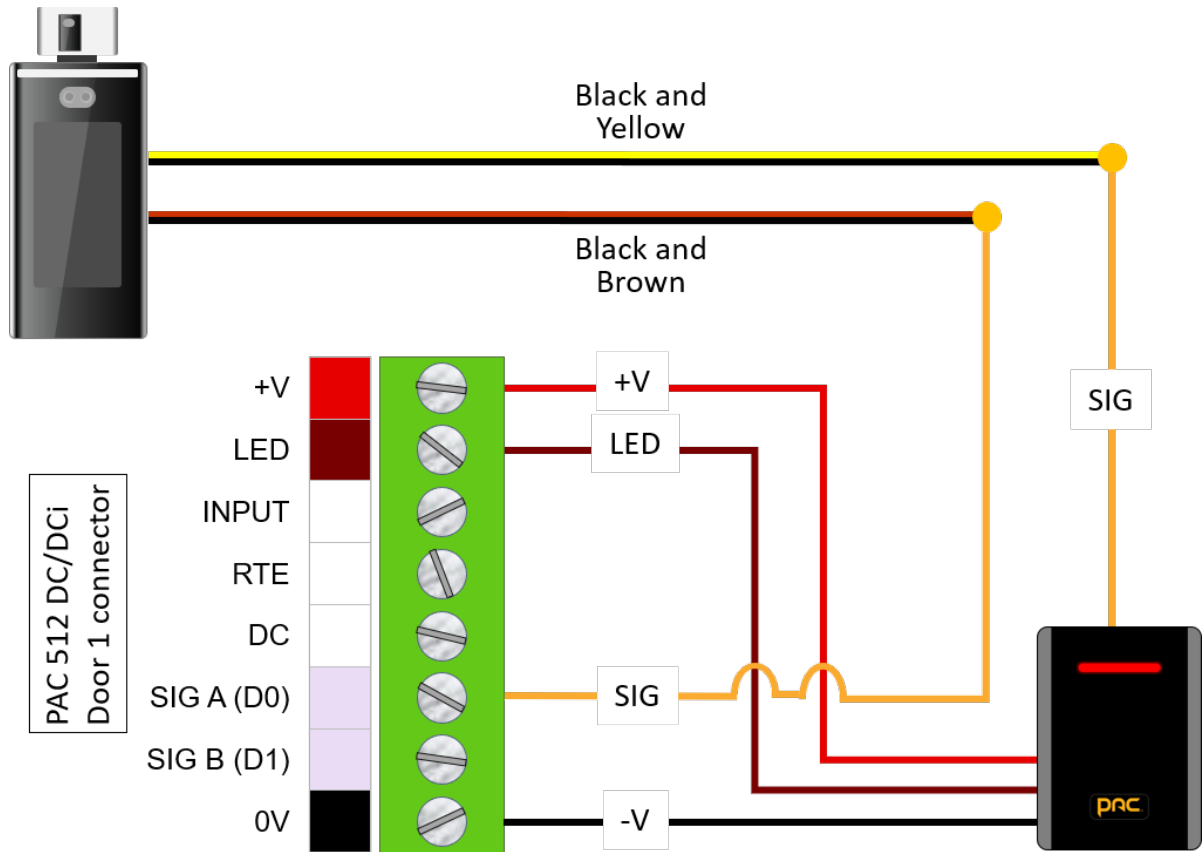
- Utilise the Dahua Temperature Monitoring Terminal for the temperature and mask check.
- Use PAC for all the access control elements.
- Disable the Dahua facial recognition feature as the access control mechanism.

The benefits of the above recommended approach are:

Simplicity of access control list set-up and management	Enables a single access control system for management of all secured areas/entrances.
Multifactor authentication	Supporting the Dahua temperature and mask checking functionalities before enabling use of the PAC access control credential to unlock the secured entrance.
Single Keyholder database	Enables clear demarcation of building controls as the PAC access control system is used for all access control and the Dahua Thermal Monitoring Terminal is used as added check for temperature and mask wearing.
Speed of install	With some basic wiring and a few configuration settings within the Dahua Thermal Monitoring Terminal the system is ready and active for added security and protection.

1.2 Installation

The following diagram shows the recommended wiring installation for the Dahua Thermal Monitoring Terminal when used with PAC access control. This supports the recommended integration outlined in Section 1.1.



For operational effectiveness it is necessary to site the Dahua Thermal Monitoring Terminal as close to the PAC Reader as possible. This enables efficient system operation as the Dahua Thermal Monitoring Terminal can perform the temperature/mask check that leads to the user presenting their ID Device at the PAC Reader within a configurable time period that reflects normal walking pace through the secured entrance. Configurable time periods and distance between Dahua and PAC equipment can then be tuned to take into account the footfall through the entrance.

1.3 Configuration

With the above installation the following configuration options are recommended:

1.3.1 PAC access control

No configuration needed.

1.3.2 Dahua Thermal Monitoring Terminal

- Temperature threshold – user configurable and is used to:
 - Activate the PAC Reader (with a specified active time period) to allow a keyholder to present an ID Device for authorised entry into the building/area if the temperature check is within the set threshold.
 - Deny user access by disabling the PAC Reader (with a specified time period) when the set temperature threshold on the Dahua Thermal Monitoring Terminal is breached.
- Face Mask detection – user configurable with the following 3 options:
 - No mask detection – the feature is disabled.
 - Mask Reminder – provides an audible alert to the keyholder to put a mask on. This is a recommended setting.
 - Mask Intercept – this will deny access to a keyholder not wearing a mask by disabling the PAC Reader from accepting ID Devices for a configurable time period. This is a recommended setting.
 - Note that both the Mask Reminder and Mask Intercept can be configured as active at the same time.
- Lock Holding Time – user configurable time period that directly controls the activation or disablement of the PAC Reader following a temperature/mask check of a keyholder. The time period should be set to reflect the local installation, i.e. the time taken to walk between the Dahua Temperature Monitoring Terminal and the PAC Reader. Consideration to the peak rate of people using the system should also be considered.

1.4 Operation

By implementing the above installation and configuration guidelines will enable the following user benefits:

- Single access control system for efficient keyholder management.
- Temperature check for every entrant that can be configured to a desired threshold.
- Option for face mask detection and alert.
- Restrict entry in real time if user configured thresholds on the Dahua Thermal Monitoring Terminal are breached.

