HIKMICRO

Pyrometer

V5.5.84

Release Notes

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1 Introduction

The pyrometer is an intelligent temperature-measuring instrument, which can measure the target of medium and high temperature with high accuracy. The device is often used in various kinds of industrial sites with high demand for temperature control. It can meet the requirements for precise temperature measurement under unstable target conditions (changing emissivity and target size) in complex environments, such as high humidity and dusty environment.

This document introduces new features and improvements in pyrometer V5.5.84.

1.1 Version information

Item	Description
Models	PD110, PD111, PD120, PD121 PD210, PD220, PD230, PS210, PS220, PS230
Firmware Version	V5.5.84 Build 250923
HIKMICRO Studio Client Version	V1.3.0.1 250922
HIKMICRO Studio Download Address: https://www.hikmicrotech.com/en/industrial-products/hikmicro-studio-software/	

2 New Features

Pyrometer has added new features in this update, involving the local device and HIKMICRO Studio (hereafter referred to as “the client”).

2.1 Local Device & Client

Introduces the new features added both in the local device and the client.

2.1.1 Analog Recalibration

Version 5.5.84 enables you to recalibrate analog output if the mapping relationship between the current analog output and the output temperature does not meet expectations.

After enabling Analog Recalibration, select channel number. Then you can select calibration method according to actual application.

- Single Point: Suitable for scenarios where the slopes of the two analog output curves of this device and the field device are close, but there is a fixed current offset.
- Two Point: suitable for scenarios where both the slopes and current offsets of the two analog output curves of this device and the field device are different.
- Parameter: Suitable in scenarios where recalibration has been performed on device of same model and the gain and bias current have been obtained, or where manual debugging is required.

2.2 Client

Introduces the new features only added in the client.

2.2.1 Predefined Thermography Parameter

You can now save configured parameter combinations, such as basic parameters, time function, recalibration, analog output, and alarm parameters as preset thermography parameters for quick access.

3 Improvements

Pyrometer has been optimized to improve your experience in this update, involving both the local device and the client.

3.1 PD1 Series

Some updates are made specifically for PD1 series:

- You can now obtain 2-color and 1-color temperature output simultaneously.
- Match function now supports simultaneous reverse calculation for both 2-color and 1-color modes.
- Analog output function supports signal source configuration, enable switch, 4~20mA (alarm) and 4~20mA (alarm+saturation) output mode.
- Temperature recalibration supports signal source configuration and analog recalibration supports channel selection.
- Diagnosis information include time function parameters (output time, averaging , filter, peak/valley hold) and analog output parameters (enable, signal source, Max./Min. alarm temperature, output mode).
- Relay mode now includes NO, NC, PC and PO.
- Simulation mode now supports current simulation.

3.2 Common Updates

The following improvements are made for all series:

- Supports font adjustments of OSD temperature values in optical channel.
- Supports expanding expert optical thermography rules to 20 points and 20 frames.
- Temperature range of analog output is now 0~3500℃.

3.3 Other

- For PD1 series, temperature measurement in optical channel cannot be enabled simultaneously with laser.



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