InfRed Camera

Avio
AVIR-AP-016

– Mold Temperature Control –
Die-cast Mold Temperature Control System by Using IR Thermography

Challenge

Temperature of mold needs to be managed and controlled, for improving productivity and maintaining quality

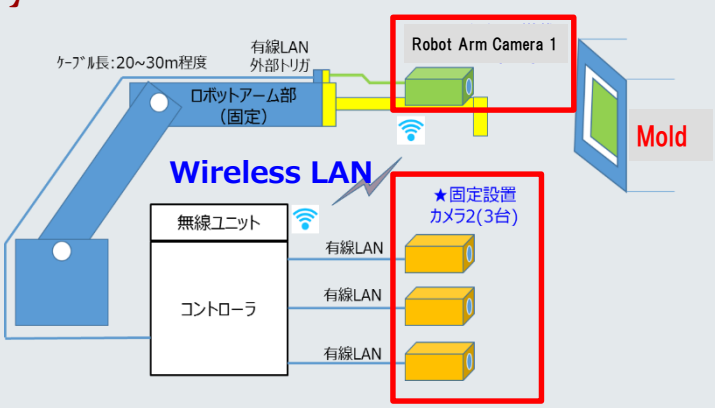
■Avio Solution!!

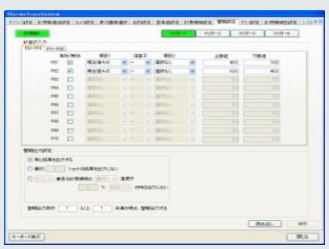
Data acquisition, Good/NG judgement, evidence management, control feed back are available by thermal image data from same angle and timing for each shot by system construction with PLC.

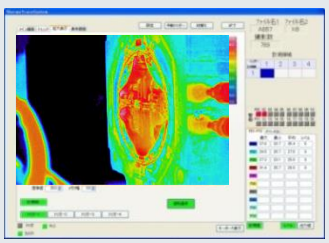
- ★ Proposal of housing which is excellent in environmental resistance, robot mounted thermography with the release agent, and wireless support
- ★ Monitoring of cooling status by cooling water and release agent by thermal pattern of mold.
- ★ All mold data can be stored automatically (Evidence management).

■System Example

- System Outline







■Subtraction Function

Subtracted image can be displayed between current and the master/previous image. It enables efficient analysis and early detection of quality abnormality.

■Setting of Monitoring Area

Max. 20 areas can be arbitral set. Within the area, calculation of Maximum, minimum, average value, trend graph display, and alarm forecast output are available.

◆ 2 models to fit size of die-cast machine!

TS600 for large machines／S25 for small machines

High Function Network Compatible Fix-mounted model

InfReC TS600series

High resolution 311,000 pixels model

It contributes to quality management by sold performance

IR thermography camera which contributes to various control requirement by general purpose protocol.

High Resolution

High Accuracy

High Temperature

Network Thermography Camera

Network thermo S25 System

High dust proof/drip proof, equivalent to IP67!

It is widely used from stand alone monitor to large scale monitoring system by alarm output function and network capability.

Small, Light & Robust

- Flexible and easier installation / easily installed in confined spaces / restricted room availability
- IP67 rated protective casing makes it possible to be used in harsh environment

Network-Configured and -Controlled

- Ethernet Interface incorporated for remote operation and flexible system building

Alarm Output

- When adequately programmed, the camera can operate for monitoring to output alarm signal on its own (disconnected from network), too.

Thermal Image and Measurement

- 160 x 120 pixel image sensor allows high-resolution thermal image measurement
- Measuring Temperature Range is to be chosen from either -20°C to +350°C (S25W) or 0°C to +600°C (S25H)

Software and Tools

- Remote Control Software is a standard accessory to configure, program and operate over the network
- Thermal image viewer, analysis and report generator software (for captured images) is included (NS9500LT)
- Software Development Kit (SDK) available free for purchasers*

* Software Development Kit (SDK) is provided to users, on request, via our website
* Thermal / Visible images are for illustrative purposes

Avio offers most suitable model for all of your measurement needs.

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WARNINGS & CAUTIONS

- Before using this product, please carefully read the provided Operation Manual "WARNINGS" & "CAUTIONS" section to ensure proper operation.
- Please do not place the product in high temperature, high humidity or high inert gas environments.

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