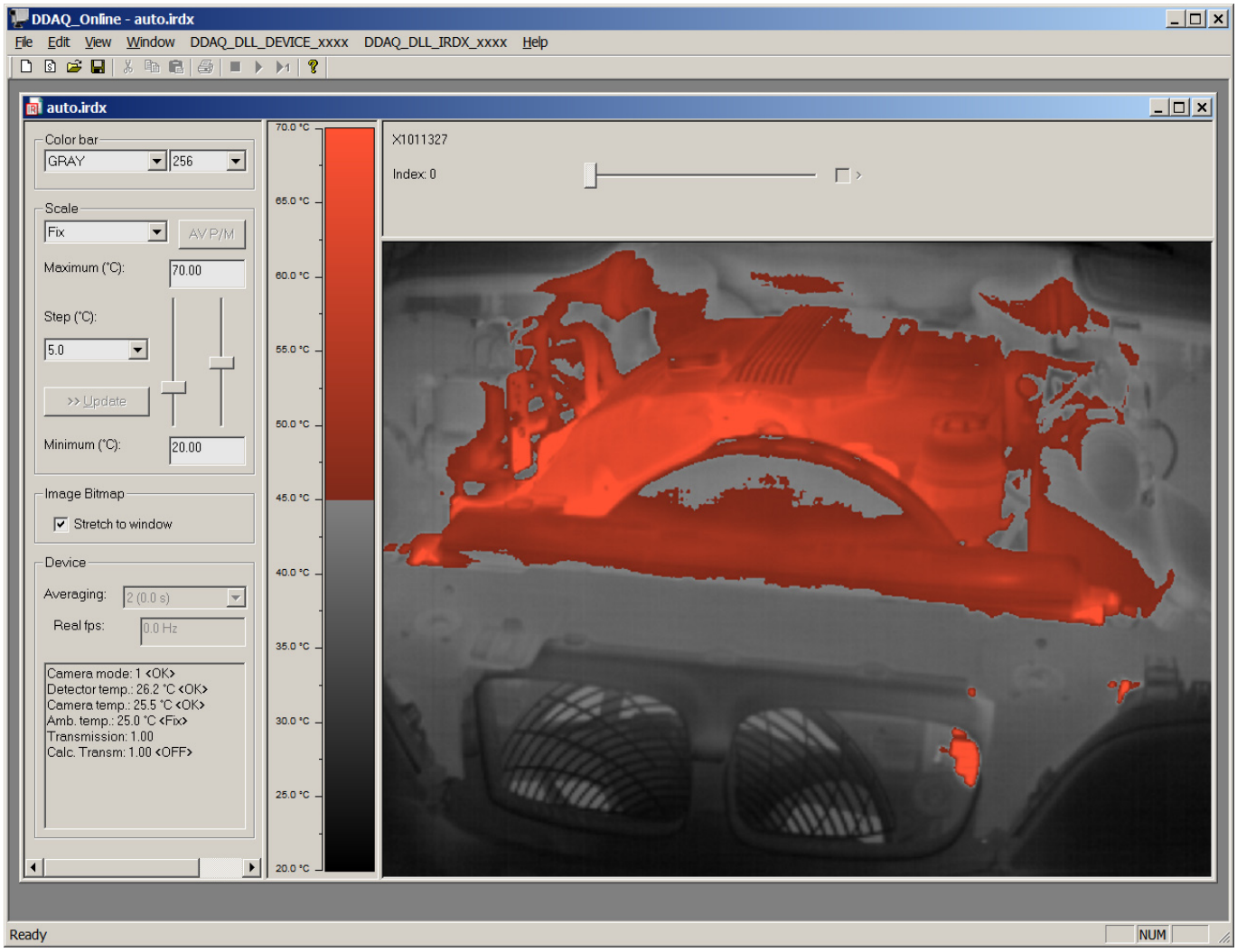
PYROSOFT DAQ

All-purpose online and offline interface for DIAS infrared cameras



Merkmale

Powerful online and offline software interface for all infrared cameras from DIAS (PYROLINE, PYROVIEW, PYROINC) for Windows® (from XP) with the following functionality:

- Online data acquisition from DIAS infrared cameras, multi camera operation possible
- Read and write support for DIAS-IRDX-file format (even for file sizes > 2 GByte)
- Setting of data acquisition parameters and object properties
- Online and offline correction of emissivity and transmission
- Query of temperature values, camera information and states
- Setting of visualisation scaling
- Functions for displaying of images and palettes as bitmap
- Possibility to store embedded user specific data (e.g. batch numbers) within IRDX-files
- Sample source code in Microsoft Visual C++ 6.0

As an alternative there are the programms PYROSOFT Compact, Professional and Professional IO as standard and analysis software available. Furthermore, there are different application specific thermal imaging software versions available. For example:

- PYROSOFT Automation (software for the integration of one DIAS camera into automation processes)
- PYROSOFT MultiCam (software for the data acquisition and image display of up to 8 DIAS cameras)
- PYROSOFT Client (software for the image and alarm display of up to 8 DIAS cameras)
- PYROSOFT CamZone (software for the zone programming of a DIAS stand-alone camera)

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Function group	Functionality
DEVICE_DO_xxxx	– Search for cameras – Open and close of a camera device – Open and close of a camera simulation (simulation by stored image data) – Start and stop of data acquisition – Start of a single shot measurement
DEVICE_GET_xxxx	– Search for connected cameras (ID string, measurement range)
IRDX_FILE_xxxx	– Delete and rename IRDX files, files larger than 2 GB are possible – Support for file types MEM, READ, WRITE, READWRITE – Selection and deletion of single data records within a IRDX sequence
IRDX_DEVICE_xxxx	– Information about connected camera (ID string, measurement range)
IRDX_OBJECT_xxxx	– Request and setting of object properties (emissivity, transmissivity) – Request and setting of parameters for the automatic ambient temperature correction (fixed or dynamic correction value) – Request and setting of parameters for automatic transmission correction (fixed or dynamic correction value)
IRDX_ACQUISITION_xxxx	– Request and setting of parameters for data acquisition (measurement range, averaging, trigger)
IRDX_SCALE_xxxx	– Request and setting of parameters for scaling of measurement values (minimum, maximum, autoscale)
IRDX_PALLET_xxxx	– Request and setting of parameters for palette display (palette number, number of colors) – Request and setting of isotherms for palette display (number, transparent mode) – Output of palette bitmap with or without labelling
IRDX_IMAGE_xxxx	– Request and setting of parameters for thermographic image display (zoom, zoom mode) – Output of thermographic image bitmap
IRDX_PIXEL_xxxx	– Request for temperature value (all values, single and average values, minimum, maximum)
IRDX_USERDATA_xxxx	– Request and setting of user specific values in USERDATA area (up to 32 data fields of user-defines size)

Extract – program code

```
00045
00046 ////////////////////////////////////////////////////////////////////////////
00047 // CDDAQ_ScaleView
00048
00049 void CDDAQ_ScaleView::OnDraw(CDC* pDC)
00050 {
00051    CDDAQ_OnlineDoc* pDoc = GetDocument();
00052
00053    // return if document is not ready now
00054    if (pDoc->m_hIRDX_Doc == INVALID_HANDLE_VALUE)
00055       return;
00056
00057    void*       pBits;
00058    BITMAPINFO* pBitmapInfo;
00059
00060    CRect cr;
00061    GetClientRect(cr);
00062
00063    if (!theApp.DDAQ_IRDX_PALLET_GetBitmapScale(pDoc->m_hIRDX_Doc, cr.Width(), cr.Height(), &pBits, &pBitmapInfo))
00064       return;
00065
00066    ::SetDIBitsToDevice(pDC->m_hDC, 0, 0, cr.Width(), cr.Height(), 0, 0, 0, cr.Height(), pBits, pBitmapInfo, 0);
00067 }
00068
00069 ////////////////////////////////////////////////////////////////////////////
00070
```

Technische Änderungen vorbehalten. Technical details are subject to change. 25.04.16

We are certified for many years according to ISO 9001

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