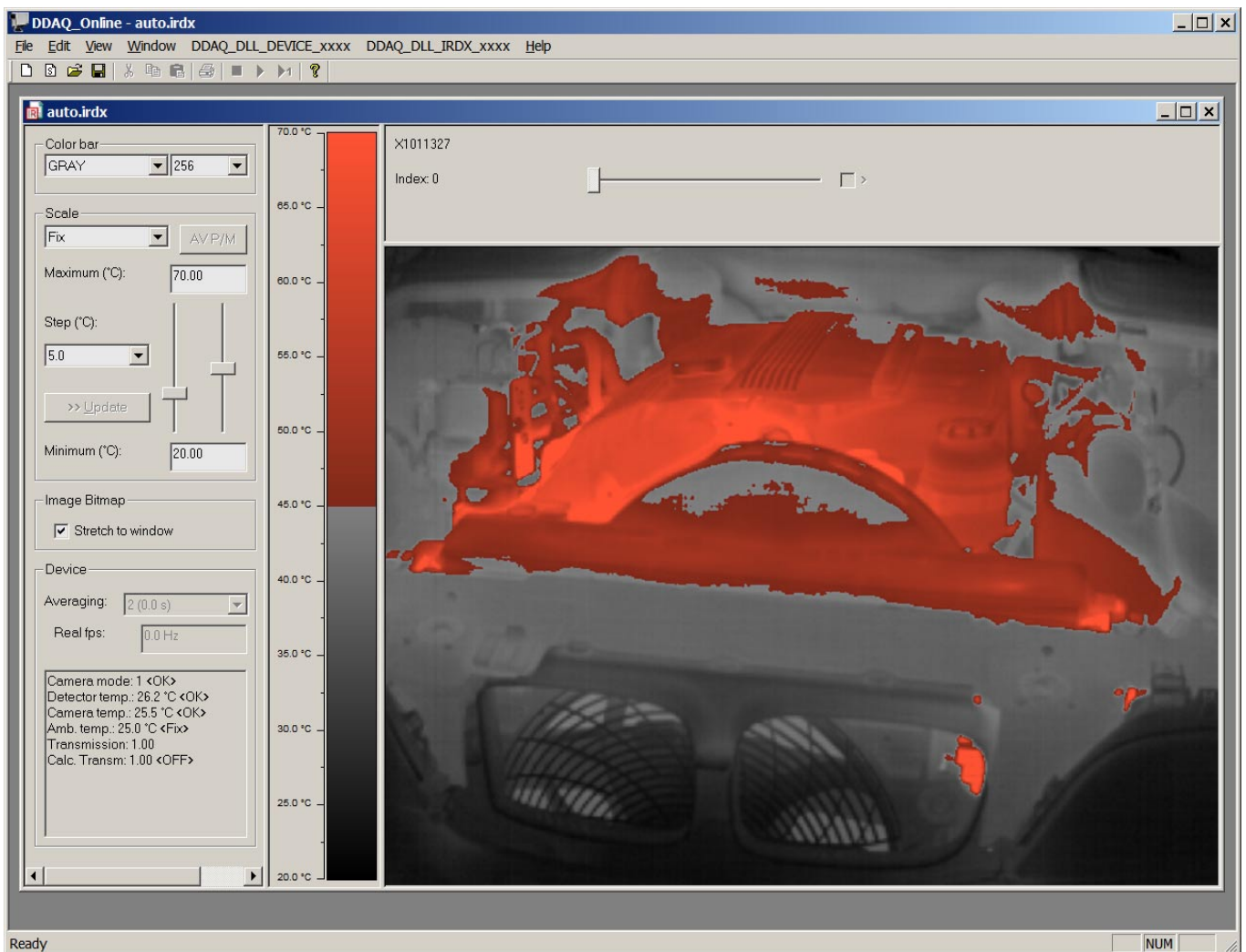


PYROSOFT DAQ

All-purpose online and offline interface for all infrared cameras from DIAS

Powerful **online and offline software** interface for all infrared cameras from DIAS (PYROLINE, PYROVIEW, PYROINC, MIDAS) for Windows® (2000, 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



The standard software **PYROSOFT Basic/Control** is available alternatively with the following functionality:

- Online data acquisition from DIAS infrared cameras, visualisation of measured values
- Real-time data storage and zone calculation with alarm limit value monitoring
- Comprehensive export functionality
- Versatile possibilities for communication with process control systems

PYROSOFT DAQ

All-purpose online and offline interface for all infrared cameras from DIAS

Function group	Functionality
DEVICE_DO_xxxx	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Search for connected cameras (ID string, measurement range)
IRDX_FILE_xxxx	<ul style="list-style-type: none"> • Delete and rename IRDX-files, (even files larger than 2 GByte) • Support for file types MEM, READ, WRITE, READWRITE • Selection and deletion of single data records within IRDX-sequences
IRDX_DEVICE_xxxx	<ul style="list-style-type: none"> • Information about connected camera (ID-string, measurement range)
IRDX_OBJECT_xxxx	<ul style="list-style-type: none"> • 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 the automatic transmission correction (fixed or dynamic correction value)
IRDX_ACQUISITION_xxxx	<ul style="list-style-type: none"> • Request and setting of parameters for data acquisition (measurement range, averaging, trigger)
IRDX_SCALE_xxxx	<ul style="list-style-type: none"> • Request and setting of parameters for scaling of measurement values (minimum, maximum, autoscale)
IRDX_PALLET_xxxx	<ul style="list-style-type: none"> • Request and setting of parameters for palette display (palette number, number of colours) • Request and setting of isotherms for palette display (number, transparent mode) • Output of palette bitmap with or without labelling
IRDX_IMAGE_xxxx	<ul style="list-style-type: none"> • Request and setting of parameters for thermographic image display (zoom, zoom mode) • Output of thermographic image bitmap
IRDX_PIXEL_xxxx	<ul style="list-style-type: none"> • Request for temperature value (all values, single and average values, minimum, maximum)
IRDX_USERDATA_xxxx	<ul style="list-style-type: none"> • Request and setting of user specific values in USERDATA area (up to 32 data fields of user-defined size)

Technical details are subject to change without notice. January 2006.

```

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

```