ScanView

User's Manual

Software Edition 1.7

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System requirements

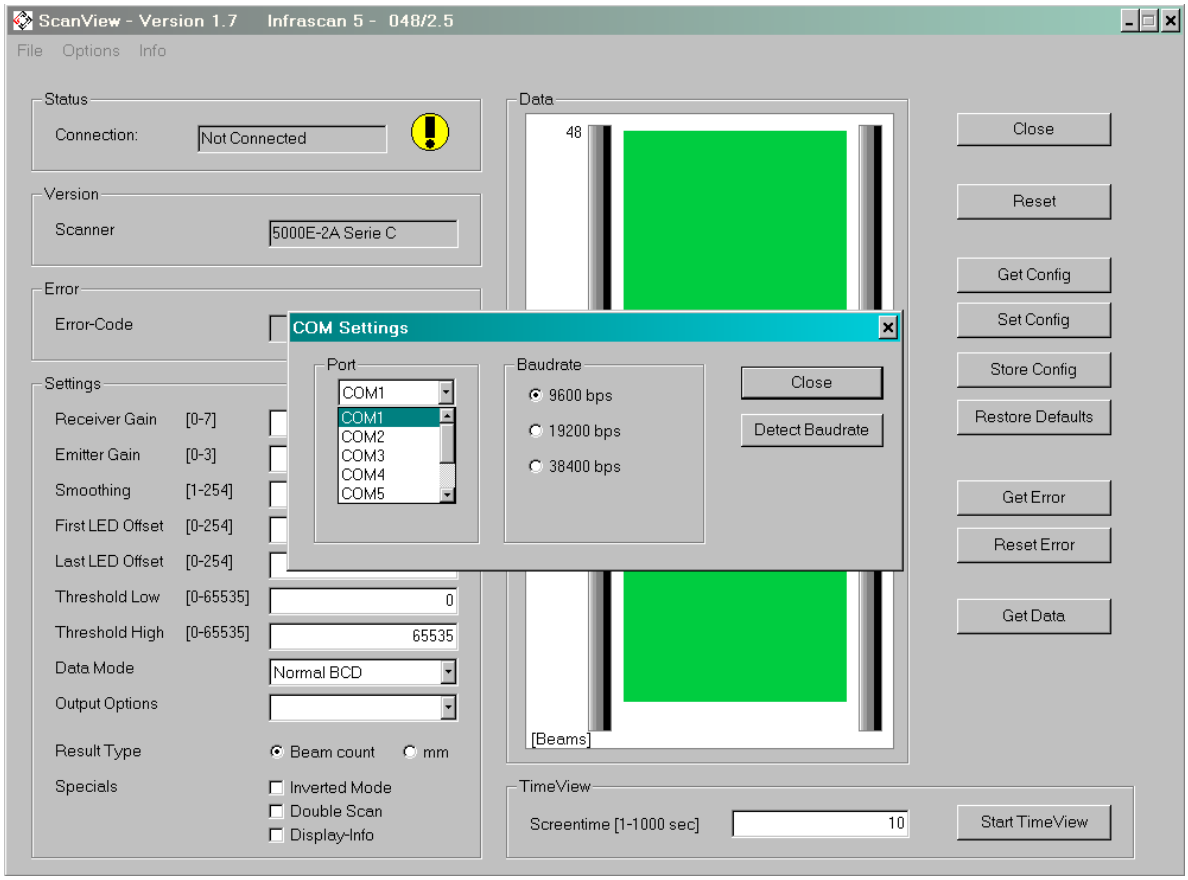
Windows™ 95/98/ME/NT4.0/2K/XP or higher
Serial COM port.

Introduction

Connect the *InfraScan*®31xx/4000/5000 by means of the interface cable (for ordering code please refer to the appropriate manual) to a free serial COM port of your computer and switch on power.
Start the ScanView software.

Connecting with *InfraScan* 31xx/4000/5000

In case the wrong port has been selected, the error message **Error opening COM-Port** will appear and needs to be acknowledged with **OK**.
Now select **COM Settings** of the **Options** menu.
Use the left mouse button to click onto the corresponding COM port.
A successful connection will be confirmed in the status window **Connection** with **Connected**.



The Baud rate is not important in the first instance as the *InfraScan*® automatically accepts the Baud rate pre-selected by the software. You must bear in mind, however, that the latest Baud rate you selected remains stored (even after switching power off and on the scanner will use this very last stored Baud rate). In case you use a different Baud rate for communication with the scanner later on, make sure that the Baud rate of scanner and software is identical.

Description of the buttons

Close: Exit the program.

Reset: Send software reset to *InfraScan*®.
After re-setting the *InfraScan*® reads the configuration anew from its non-volatile memory, the Baud rate will be set to the very last stored value. For this reason, possibly the Baud rate needs to be sent to the *InfraScan*® afresh or the selected Baud rate needs to be found out by means of **Detect Baudrate**.

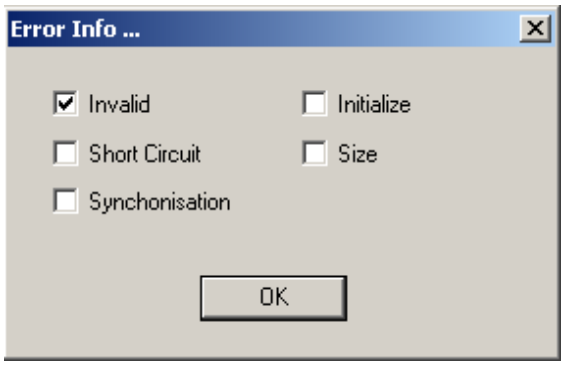
Get Config: Read the current *InfraScan*® configuration.

Set Config: Write the indicated configuration data to *InfraScan*® (data is volatile).

Store Config: Save configuration data contained in the *InfraScan*®'s memory (data is non-volatile).

Restore Defaults: All parameters are set back to the (original) factory configuration. In order to store this standard configuration permanently (non-volatile), it is necessary to send the command "Store Config" afterwards.

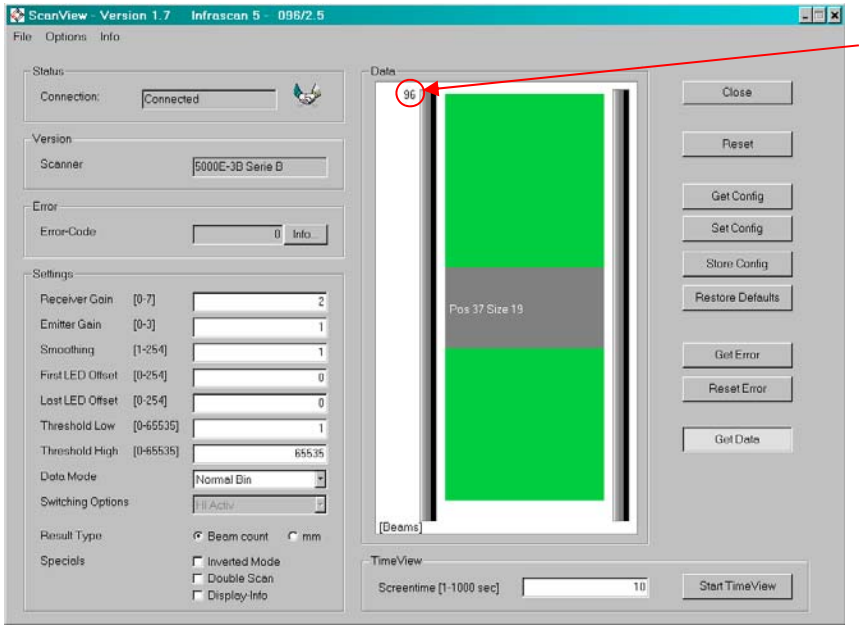
Get Error: Read *InfraScan*® self-diagnosis information. A volatile error will be shown until it is acknowledged.
For details click on the **Info** button.
The appropriate error code information is marked with ✓ .



Invalid	➔Weak receiver signal (Clean window if soiled, or check gain settings)
Short Circuit	➔Short circuit or excessive load on output(s) of parallel interface
Synchronization	➔No control signals from emitter (check for correct connection of synchronization cable)
Initialize	➔Communication between emitter and receiver is not functioning correctly (check whether emitter and receiver are of the same series/serial number)
Size	➔Number of beams of emitter does not correspond with receiver (check whether emitter and receiver are of the same type)

Reset Error: Reset all error codes.

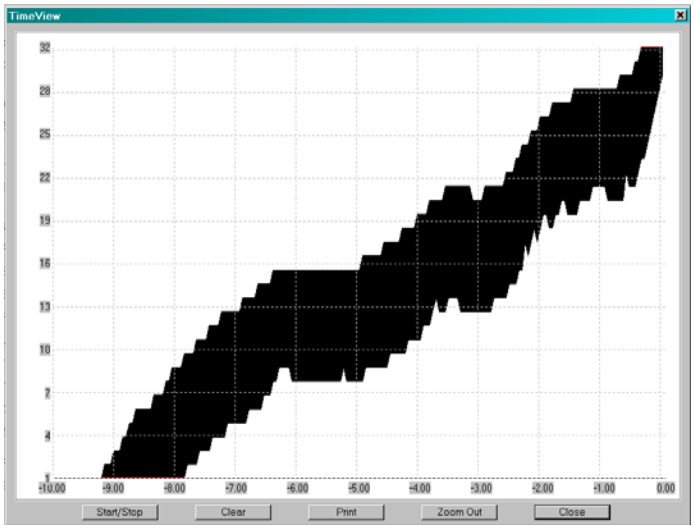
Get Data: Measuring data is being read from the *InfraScan*® and displayed in grey.



The size of the measuring area
is displayed here. Either in number of beams or in mm, depending on the set output mode.

Start TimeView: Start recording of scanner data or end recording respectively.

The **TimeView** window displays the elapsed time on the horizontal axis.
The recorded data moves from right to left.



Start/Stop: Start or stop recording.

Clear: Delete record.

Print: Print record.

Details of the record can be viewed closer (zoomed in) by drawing a green rectangle over the desired section with the cursor while keeping the left mouse button pressed.

Zoom Out: End of detailed viewing.

Close: Close time view window.

Parameter settings

First of all one can see the existing parameter configuration after reading them from the *InfraScan*®. To change these parameters you only need to fill in the new value in the corresponding boxes and send them with **Set Config** to the *InfraScan*®. The following parameters can be changed:

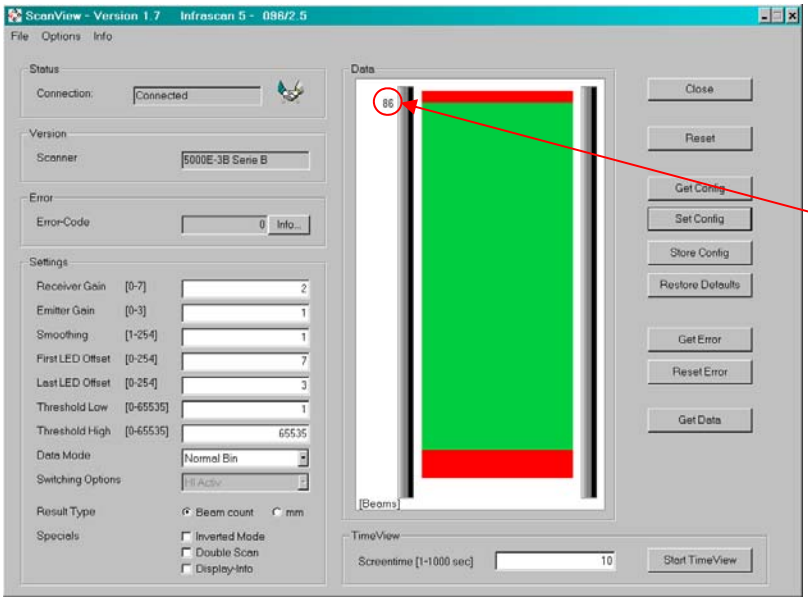
Receiver Gain: Amplification (gain) of receiver.

Emitter Gain: Power of emitter.

Smoothing: Number of „blanked“ (adjacent) beams.

First LED Offset: Adjustment to Active Scan Area (first LED).

Last LED-Offset: Adjustment to Active Scan Area (last LED).



The de-activated area is shown in red.

The size of the active measuring area is shown here. Either in number of beams or in mm, depending on the set output mode.

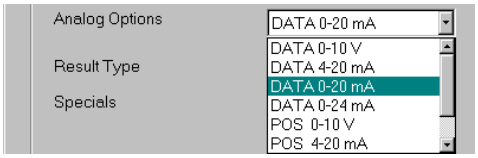
Threshold Low: Measuring data output starting from value ....

Threshold High: Measuring data output limited to value ...

Data Mode: Output format and code.

Switching Options / Analog options will be displayed according to the connected *InfraScan*®.

HI Active logic=1 (HI) when measuring area is „free“
LO Active logic=0 (LO) when measuring area is „free“



Analog voltage or current output for DATA or POSITION

Result Type: Measuring values in **Beam count** (number of broken beams) or **mm**.

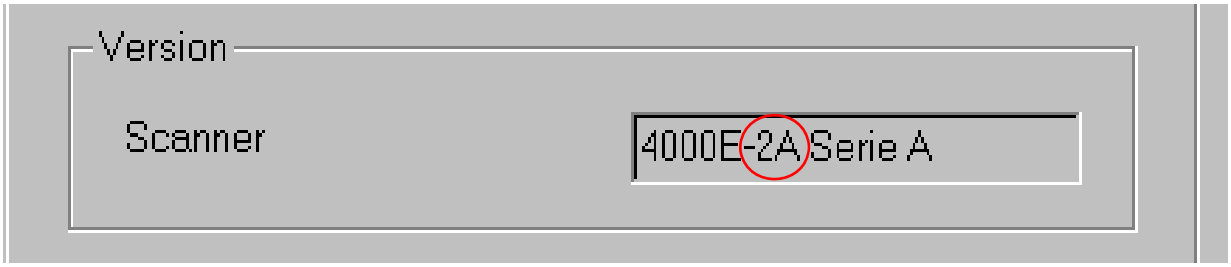
Specials: **Inverted Mode**: Through beam/Reflective sensing.

Double Scan: Parallel-/Double scanning.

Display-Info: Show configuration/parameters on LED-Display (of *InfraScan*®). A description of the various functions can be found in the corresponding *InfraScan*® 3100/ 4000 / 5000 manuals.

Software version

The window **Version** displays the *InfraScan*® software version.
For technical questions regarding this software please always quote this number.



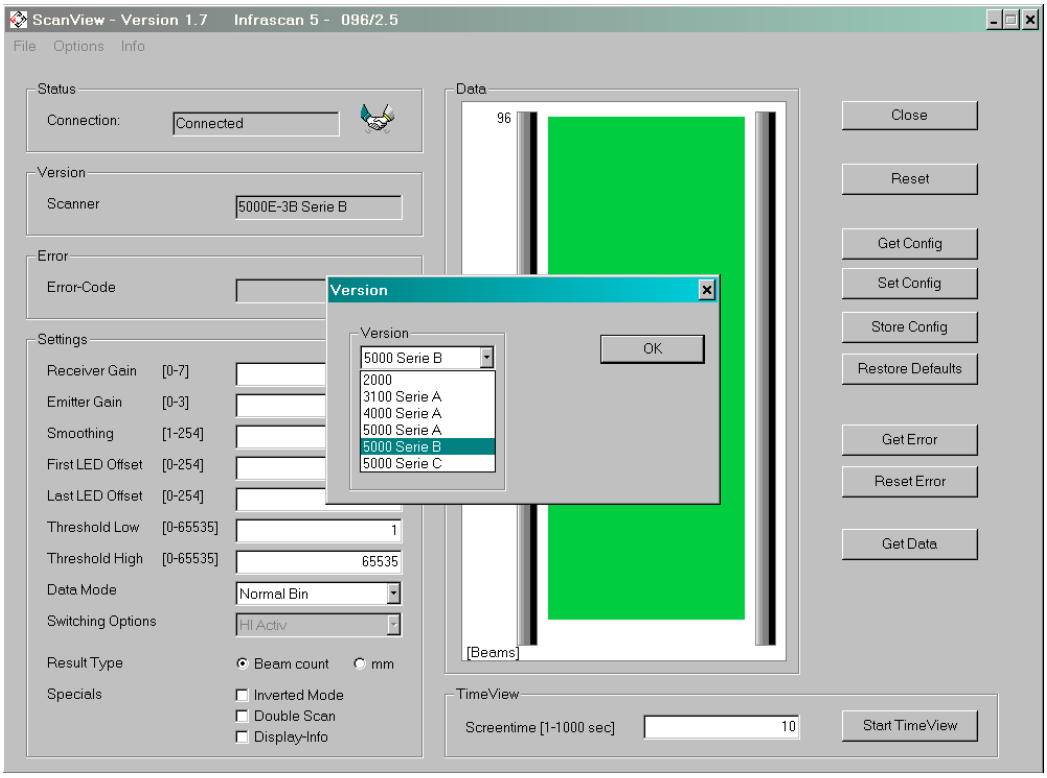
ScanView Heading

The heading displays software version, number of beams and resolution of the connected *InfraScan*®.

Limitations to parameter settings
The complete range of parameter settings is only available for the *InfraScan*® 4000 Series A or the *InfraScan*® 5000 Series E.

In order to communicate with an *InfraScan*® 3100 Series A, *InfraScan*® 5000 Series A or an *InfraScan*® 5000 Series B (see label on scanner), it is necessary to enter the appropriate version in the menu under **Options**.

Not available parameters are shown grey and cannot be addressed.



Load Settings from Files

In case that scanners should be repeatedly be programmed with the same settings, it is advisable to store these settings in a file (***Save / Save As***) in order to download from this file (***Open***) when necessary.

The downloaded configuration can now be written to the scanner with ***Set Config***.

Communication settings (**COM Settings)** will not be stored.