



# Acute Debug Set

## USER MANUAL

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AIVION is a cooperation by Visual Communication Systems GmbH  
and eVision Systems GmbH

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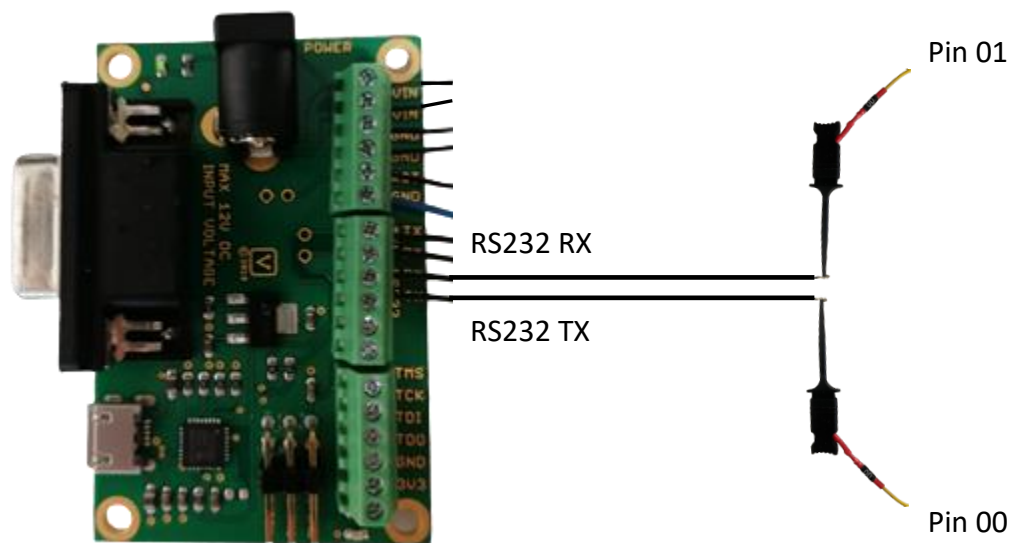
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## 1. Camera setup

Set up the camera setup with the Acute PA board instead of the normal PA board.

## 2. Connect TravelBus

Connect the measuring clamp of pin 00 to TX of the RS232 interface and connect the measuring clamp of pin 01 to RX of the RS232 interface.



*PA-board connected to pin 00 and pin 01 of TravelBus*

## 3. TBA (x64) software

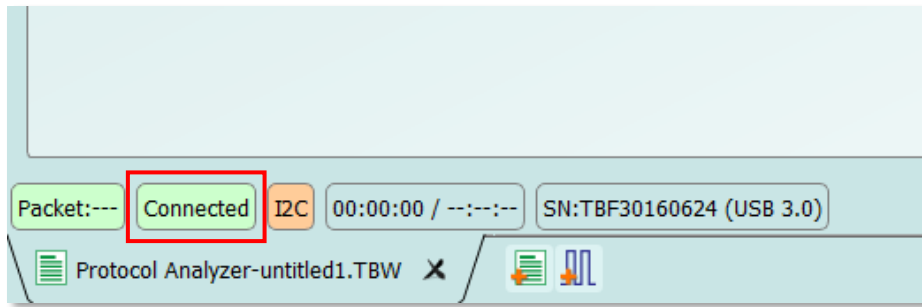
Download the Software ‚[Logic Analyzer] TravelBus series‘ from the Acute website:

<https://www.acute.com.tw/en/install>

After installation, open the TBA (x64) software and select 'Add Protocol Analyzer'.

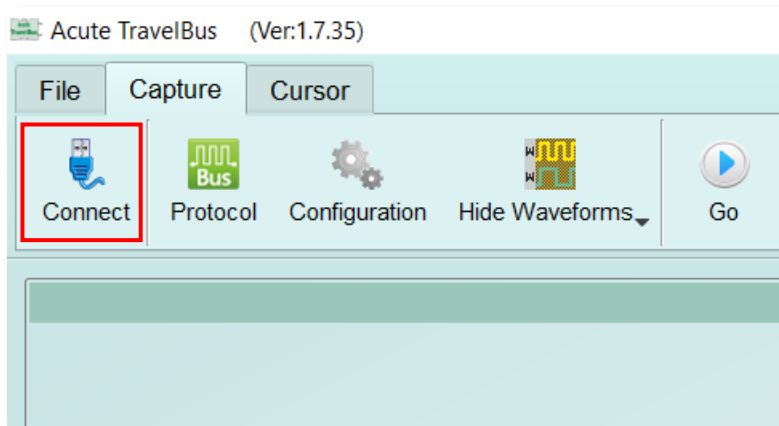
## 4. Check connection

If you have previously connected the TravelBus Analyzer to the computer, it should already be connected to the software.



*Bottom left corner of the TBA (x64) software*

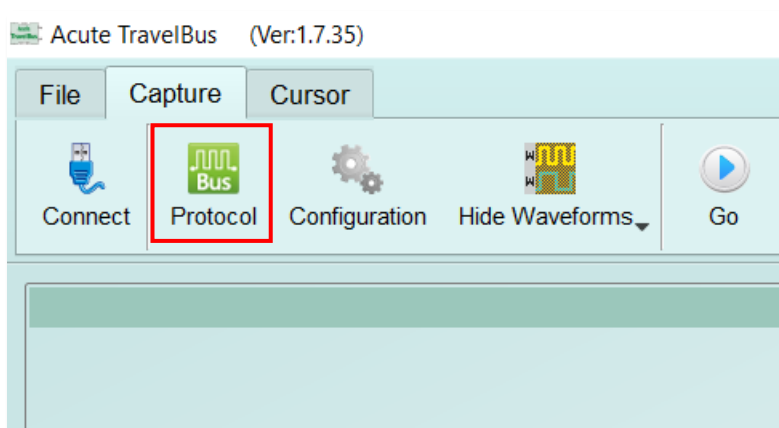
If the software is not connected to the TravelBus Analyzer, you can set up your connection via 'Connect'.



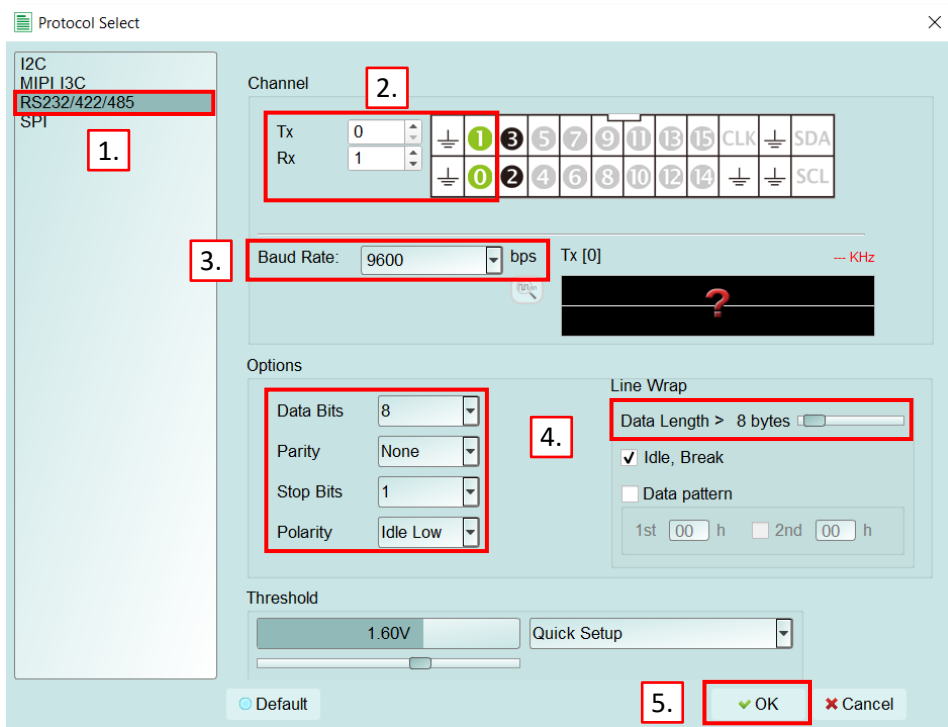
*Upper left corner of the TBA (x64) software*

## 5. Protocol and parameter selection

You can select the protocol under 'Protocol'.



*Upper left corner of the TBA (x64) software*

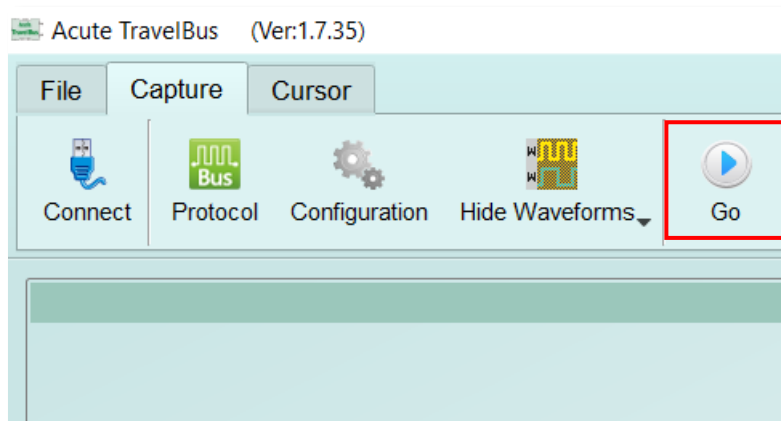


Protocol window

1. First select the protocol 'RS232/422/485' on the left side.
2. Select Tx and Rx as you have connected the measuring clamps on the PA-board under [2. Connect TravelBus](#).
3. Select the baud rate which is used to send the VISCA commands (usually 9600 Baud).
4. In Options select 8 Data Bits, None Parity, 1 Stop Bit, 'Idle Low' under Polarity and '8 bytes' for Data Length.
5. Save the settings with 'Ok'.

## 6. Capture data

Click on 'Go' to start recording and on 'Stop' to stop recording.



Upper left corner of the TBA (x64) software

The recorded data can then look like this:

|    | Timestamp (h:m:s.ms.us.ns dur)       | Status | Data (h)                |
|----|--------------------------------------|--------|-------------------------|
| 1  |                                      |        |                         |
| 2  | 16:22:32.518.960.000 0 (Feb-21-2024) | Rx     | 81 09 00 02 FF          |
| 3  | 16:22:32.524.361.000 005.401ms       | Tx     | 90 50 00 20 04 66 01 00 |
| 4  | 16:22:32.532.670.000 008.309ms       | Tx     | 03 FF                   |
| 5  | 16:22:32.635.856.000 103.186ms       | Rx     | 81 09 04 24 72 FF 81 09 |
| 6  | 16:22:32.642.333.000 006.477ms       | Tx     | 90 50 00 08 FF          |
| 7  | 16:22:32.644.350.000 002.017ms       | Rx     | 04 24 74 FF 81 09 04 43 |
| 8  | 16:22:32.648.591.000 004.241ms       | Tx     | 90 50 00 00 FF 90 50 00 |
| 9  | 16:22:32.652.842.000 004.251ms       | Rx     | FF 81 09 04 44 FF 81 09 |
| 10 | 16:22:32.657.011.000 004.169ms       | Tx     | 00 00 0A FF 90 50 00 00 |
| 11 | 16:22:32.661.333.000 004.322ms       | Rx     | 04 4A FF 81 09 04 4C FF |
| 12 | 16:22:32.665.320.000 003.987ms       | Tx     | 00 0A FF 90 50 00 00 00 |
| 13 | 16:22:32.669.822.000 004.502ms       | Rx     | 81 09 04 4B FF 81 01 04 |
| 14 | 16:22:32.673.629.000 003.807ms       | Tx     | 02 FF 90 50 00 00 00 00 |
| 15 | 16:22:32.678.316.000 004.687ms       | Rx     | 36 00 FF                |
| 16 | 16:22:32.681.940.000 003.624ms       | Tx     | FF 90 50 00 00 00 07 FF |
| 17 | 16:22:32.690.248.000 008.308ms       | Tx     | 90 41 FF                |
| 18 | 16:22:32.703.316.000 013.068ms       | Tx     | 90 51 FF                |

*Recorded VISCA data*