

# TeraFlash OEM: Commands for Host Remote Control

For initialization, open 2 UDP-channels on localhost, the one for reading with local port-number 61235, the one for writing with local port-number 61237. For communication, write a command over the write-channel on localhost, to port-number 61234, and then wait on the read-channel (port-number 61235) for the response. Send commands without end-of-line character. Every command sends a response: ,OK' (partly with parameter) or ,ERROR'. (  means whitespace )

**RC-LASER  :  OFF**

Switch off laser and emitter voltage

**RC-LASER  :  ON**

Switch on laser and emitter voltage

**RC-VOLTAGE  :  OFF**

Switch off emitter voltage

**RC-VOLTAGE  :  ON**

Switch on emitter voltage; works only, if laser is already on

**RC-RUN  :  OFF**

Stop measurement

**RC-RUN  :  ON**

Start measurement

**RC-BEGIN  %f  *start point in ps***

Set start point in ps

**RC-RANGE  %d  *measuring range in ps***

Set measuring range in ps

**RC-AVERAGE  %d  *averaging number***

Set averaging number

**RC-TRANSFER  :  SLIDING**

Set data transfer to: continuously

**RC-TRANSFER  :  BLOCK**

Set data transfer to: not until complete averaging

**RC-ANALYSIS  :  REDUCED**

Set data analysis to: block by block

**RC-ANALYSIS  :  FULL  RATE**

Set data analysis to: full rate

**RC-TIA  :  INTERN**

Set measurement to: internal TIA

**RC-TIA  :  EXTERN**

Set measurement to: external TIA

**RC-TIA  :  SENSITIVITY  %d  *measuring range in nA***

Set TIA measuring range (100, 300, 1000 [nA +/-])

**RC-FILEPATH** □ %s □ *path string*

Set file path for saving pulse data

**RC-WAIT** □ : □ **ON**

Switch on WAIT state

**RC-WAIT** □ : □ **OFF**

Switch off WAIT state

**RC-AUTO** □ : □ **ON**

Switch on AUTO-WAIT

**RC-AUTO** □ : □ **OFF**

Switch off AUTO-WAIT

**RC-SAVE** □ **W-S**

Save pulse data with spectrum

**RC-SAVE** □ **WO-S**

Save pulse data without spectrum

**RC-REVERSE** □ : □ **ON**

Switch on REVERSE mode

**RC-REVERSE** □ : □ **OFF**

Switch off REVERSE mode

**RC-REF**

Set current measurement as Reference

**RC-CLR**

Delete a present Reference, re-normalize frequency spectra

**RC-BGR**

Set current measurement as Background

**RC-BCL**

Delete a present Background

**RD-AMPLITUDE**

Read amplitude [nA]

**RD-TAC.TIME**

Read total acquisition time [s]

**RD-XAC.TIME**

Read relative acquisition time

**RD-LASER**

Read laser state

**RD-VOLTAGE**

Read emitter supply state

**RD-RUN**

Read acquisition state

**RD-BEGIN**

Read measuring start point [ps]

**RD-RANGE**

Read measuring range [ps]

**RD-AVERAGE**

Read desired average

**RD-TRANSFER**

Read transfer mode

**RD-ANALYSIS**

Read analysis mode

**RD-TIA-MODE**

Read TIA mode

**RD-TIA-SENSITIVITY**

Read TIA sensitivity

**RD-WAIT**

Read WAIT button state

**RD-AUTO**

Read auto button state

**RD-REVERSE**

Read REVERSE button state