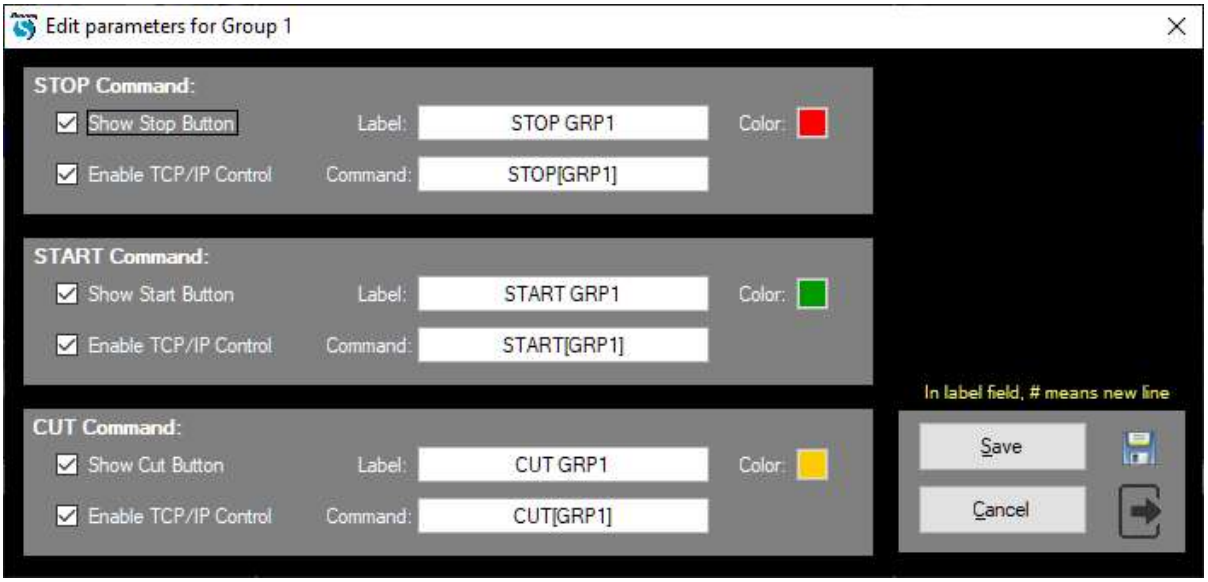

Figure 119

4.10 COMMANDS FROM A THIRD-PARTY SEQUENCER

It is possible to execute a START, CUT or STOP command from a third-party sequencer sending a string command with TCP/IP protocol to the computer where "TuningS" software is installed.
There are three levels of TCP/IP commands available only when the TCP/IP server in the "Group Server Setup" window is enabled:

1. Global Commands
2. Group Commands
3. Sequence Commands

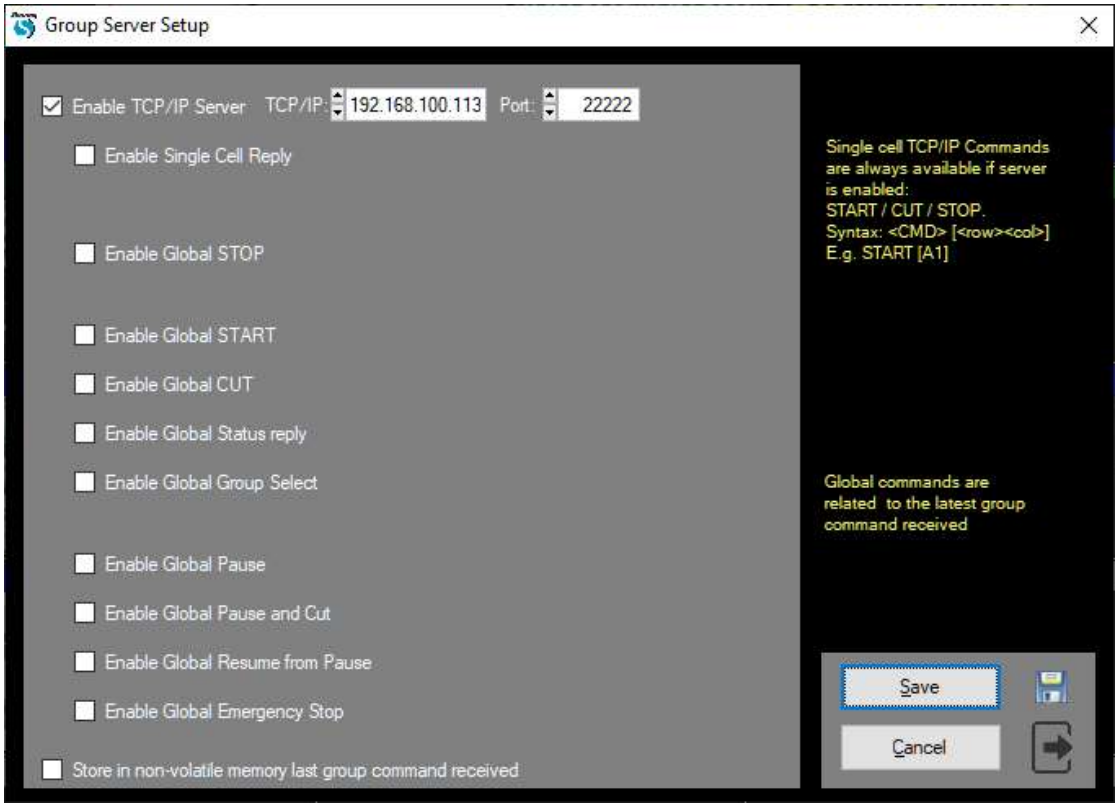

Figure 120

4.10.1 GLOBAL COMMANDS

Enabling the global commands, it is possible to recall cut, start and stop operations upon the selected group by means of the Global Select Group command.

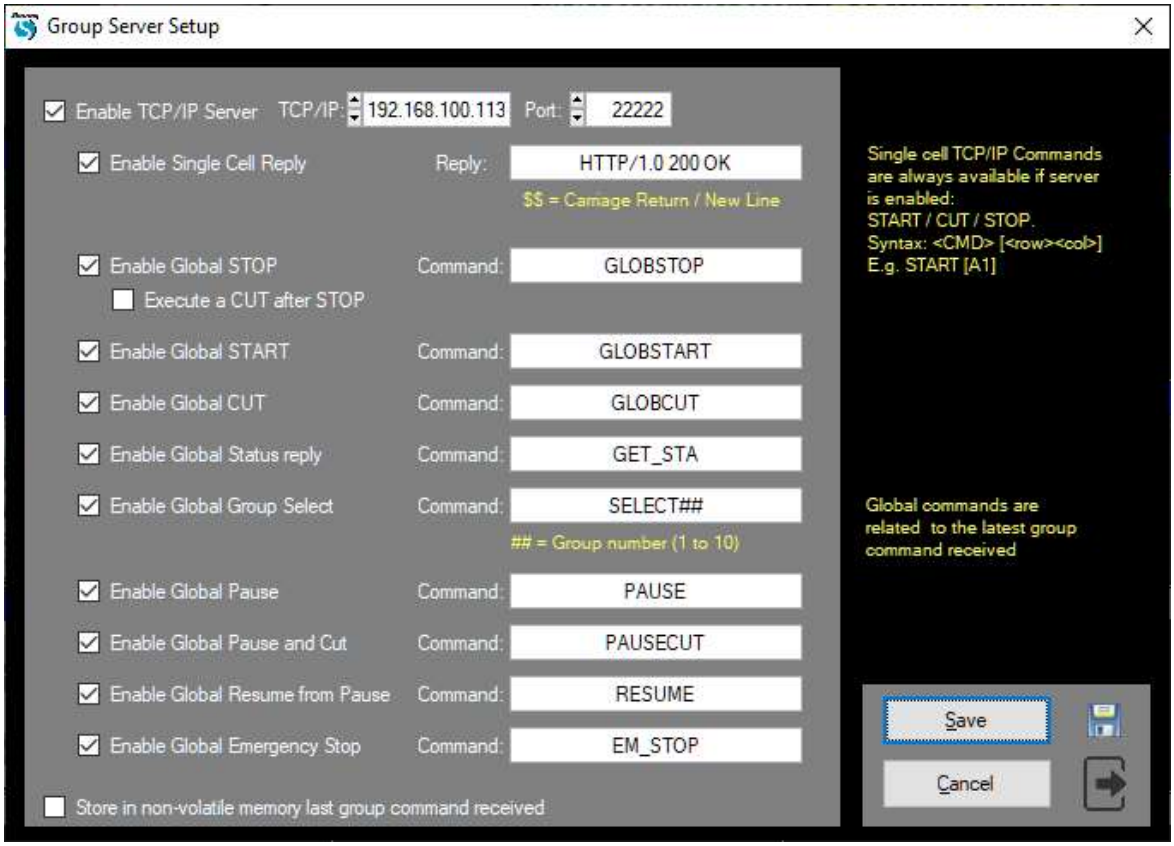

Figure 121

In the example given, if the string “SELECT02” is sent to the TCP/IP server on port 22222 at address 192.168.100.113, the global group 2 will be selected and every subsequent command of start (GLOBSTART) and stop (GLOBSTOP) will be performed on that previously selected group.

The PAUSE, PAUSECUT and RESUME do not apply to the selected group, but rather to the current executing sequences.

The PAUSE command will pause the executing sequences until the receiving of the RESUME command, then the sequence will continue.

The PAUSECUT command stops the executing sequences and a cut command is performed so that they can be restarted (by the RESUME command) starting from a known position.

Upon receiving the Enable Global Emergency Stop command (EM_STOP), all the connected cameras and equipment are stopped.

If *Enable Global Status reply* is selected, a string is sent back using the TCP/IP communication. The format of the reply is described as follows:

```
[Command] [Num of Columns]x[Total num of Rows] [CR/NL]
[Status of Cell A1][Status of Cell B1][ Status of Cell C1][ Status of Cell....][CR/NL]
[Status of Cell A2][Status of Cell B2][ Status of Cell C2][ Status of Cell....][CR/NL]
[Status of Cell A3][Status of Cell B3][ Status of Cell C3][ Status of Cell....][CR/NL]
```

Where:

[command]	is the command specified in the Global Status reply command field
[Num of Columns]	is the number of columns specified in the preferences window
[Total num of rows]	is the number of Rows per page multiplied by the number of pages specified in the preferences window
[CR/NL]	combinations of Carriage Return / New Line (ascii code 13 + 10)
[Status of Cell]	is an ascii number whose meaning is: 0 No sequence set for this cell 1 Sequence Stopped 2 Sequence in execution 3 Cutting in execution 4 Sequence stopped and ready to start (when target icon appears)

As example:

TuningS receive the string:
GET_STA
Then replies with
GET_STA 6x12
110100
002100
000100
111100
000010
100000
100000
000000
000000
000000
000000
000000

Figure 122

4.10.2 GROUP COMMANDS

The group selection commands interact with the group configured in the “Group->Edit->Group 1...10” menu.

Figure 123

In the example given, upon the receiving of the “CUT GRP3”, a cut for the group 3 is performed.
Flag *Show Stop/Start/Cut Button* to have the corresponding button shown in the *Tools set* area.

4.10.3 SEQUENCE COMMANDS

It is possible to use each stored sequence sending a non-configurable command accordingly to the following syntax:
START [*row column*]
STOP [*row column*]
CUT [*row column*]
CSTAT [row column]
Where row and column are the “coordinates” of the single cell
For example, the sequence in the first cell (with coordinates A1) can be started sending the “START [A1]” command.
If *Enable Single Cell reply* is enabled, the reply text is sent upon receiving of a syntactically correct single cell command (CSTAT excluded).
The CSTAT command (Cell STATus) returns a status string for a single cell whose syntax is the same as the *Enable Global Status Reply* string.
As example, in the configuration of figure 121, when the “`START [A1]`” command is received, Tunings replies with “`HTTP/1.0 200 OK`” string.
If new line / carriage return is required, add the $$ special characters at the end of the reply.