3.21.13 :LOAD:SETup

Syntax

:LOAD:SETup <*path*>

Description

Loads the setup file of the oscilloscope from the specified path.

Parameter

Name	Type	Range	Default
<path>	ASCII String	Refer to *Remarks*	-

Remarks

<path> includes the file storage location and the filename with a suffix.

- The path of the local disk is C:/; and the path of the external storage device can be D:/, E:/...
- The suffix of the filename to be loaded is "*.stp".

Return Format

N/A

Example

```
:LOAD:SETup D:/123.stp      /*Loads the setup file "123.stp" from
the external storage device Disk D.*/
```

3.22 :SEARch Commands

3.22.1 :SEARch:COUNt?

Syntax

:SEARch:COUNt?

Description

Queries the total number of the search events.

Parameter

N/A

Remarks

N/A

Return Format

The query returns the total number of the search events in integer.

Example

```
N/A
```

3.22.2 :SEARch:STATe

Syntax

:SEARch:STATe <*bool*>

:SEARch:STATe?

Description

Enables or disables the search function; or queries the on/off status of the search function.

Parameter

Name	Type	Range	Default
<bool>	Bool	{{1|ON}|{0|OFF}}	0|OFF

Return Format

The query returns 1 or 0.

Example

```
:SEARch:STATe ON    /*Enables the search function.*/
:SEARch:STATe?      /*The query returns 1.*/
```

3.22.3 :SEARch:MODE

Syntax

:SEARch:MODE <*value*>

:SEARch:MODE?

Description

Sets the search type.

Parameter

Name	Type	Range	Default
<value>	Discrete	{EDGE|PULSe}	EDGE

Remarks

- **EDGe:** selects "Edge" as the search type.
- **PULSe:** selects "Pulse" as the search type.

Return Format

The query returns EDGE or PULS.

Example

```
:SEARch:MODE PULSe     /*Selects the search type to "PULSe".*/
:SEARch:MODE?          /*The query returns PULS.*/
```

3.22.4 :SEARch:EVENt

Syntax

:SEARch:EVENt <*value*>

:SEARch:EVENt?

Description

Sets to navigate a search event.

Parameter

Name	Type	Range	Default
<value>	Integer	0 to (the number of searched events – 1)	0

Remarks

N/A

Return Format

The query returns an integer.

Example

```
:SEARch:EVENt 1     /*Sets to navigate to Search Event 1.*/
:SEARch:EVENt?       /*The query returns 1.*/
```

3.22.5 :SEARch:VALue?

Syntax

:SEARch:VALue? <*x*>

Description

Queries the time value for the specified Line No. in the marktable.

Parameter

Name	Type	Range	Default
<x>	Integer	-	-

Remarks

<x> denotes the line number of the marktable.

Return Format

The query returns a time value.

Example

```
N/A
```

3.22.6 :SEARch:EDGE:SLOPe

Syntax

:SEARch:EDGE:SLOPe <*slope*>

:SEARch:EDGE:SLOPe?

Description

Sets or queries the edge for the "Edge" search type.

Parameter

Name	Type	Range	Default
<slope>	Discrete	{POSitive|NEGative|EITHer}	POSitive

Remarks

- **POSitive:** indicates the rising edge.
- **NEGative:** indicates the falling edge.
- **EITHer:** indicates the rising edge or the falling edge.

Return Format

The query returns POS, NEG, or EITH.

Example

```
:SEARch:EDGE:SLOPe NEGative     /*Sets the edge type to NEGative.*/
:SEARch:EDGE:SLOPe?             /*The query returns NEG.*/
```

3.22.7 :SEARch:EDGE:SOURce

Syntax

:SEARch:EDGE:SOURce <*source*>

:SEARch:EDGE:SOURce?

Description

Sets or queries the source for the "Edge" search type.

Parameter

Name	Type	Range	Default
<source>	Discrete	{CHANnel1|CHANnel2|CHANnel3|CHANnel4}	CHANnel1

Remarks

N/A

Return Format

The query returns CHAN1, CHAN2, CHAN3, or CHAN4.

Example

```
:SEARch:EDGE:SOURce CHANnel1     /*Sets the source for the Edge
search type to CHANnel1.*/
:SEARch:EDGE:SOURce?             /*The query returns CHAN1.*/
```

3.22.8 :SEARch:EDGE:THReshold

Syntax

:SEARch:EDGE:THReshold <*thre*>

:SEARch:EDGE:THReshold?

Description

Sets or queries the threshold for the "Edge" search type.

Parameter

Name	Type	Range	Default
<thre>	Real	(-4.5 x VerticalScale - Offset) to (4.5 x VerticalScale - Offset)	0.000 V

Remarks

N/A

Return Format

The query returns the threshold for the edge search type in scientific notation.

Example

```
:SEARch:EDGE:THReshold 0.01          /*Sets the threshold to 0.01
V.*/
:SEARch:EDGE:THReshold?            /*The query returns 1.000000E-2.*/
```

3.22.9 :SEARch:PULSe:POLarity

Syntax

:SEARch:PULSe:POLarity <*polarity*>

:SEARch:PULSe:POLarity?

Description

Sets or queries the polarity for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<polarity>	Discrete	{POSitive|NEGative}	POSitive

Remarks

N/A

Return Format

The query returns POS or NEG.

Example

```
:SEARch:PULSe:POLarity POSitive     /*Sets the polarity for the
Pulse search type to POSitive.*/
:SEARch:PULSe:POLarity?            /*The query returns POS.*/
```

3.22.10 :SEARch:PULSe:QUALifier

Syntax

:SEARch:PULSe:QUALifier <*qualifier*>

:SEARch:PULSe:QUALifier?

Description

Sets or queries the search condition for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<qualifier>	Discrete	{GREater|LESS|GLESs}	GREater

Remarks

- **GREater:** the positive/negative pulse width of the input signal is greater than the specified pulse width.
- **LESS:** the positive/negative pulse width of the input signal is smaller than the specified pulse width.
- **GLESs:** the positive/negative pulse width of the input signal is greater than the specified lower limit of pulse width and smaller than the specified upper limit of pulse width.

Return Format

The query returns GRE, LESS, or GLES.

Example

```
:SEARch:PULSe:QUALifier LESS    /*Sets the search condition for the
"Pulse" search type to LESS.*/
:SEARch:PULSe:QUALifier?           /*The query returns LESS.*/
```

3.22.11 :SEARch:PULSe:SOURce

Syntax

:SEARch:PULSe:SOURce <*source*>

:SEARch:PULSe:SOURce?

Description

Sets or queries the source for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<source>	Discrete	{CHANnel1|CHANnel2| CHANnel3|CHANnel4}	CHANnel1

Remarks

N/A

Return Format

The query returns CHAN1, CHAN2, CHAN3, or CHAN4.

Example

```
:SEARch:PULSe:SOURce CHANnel1    /*Sets the source for the Pulse
search type to CHANnel1.*/
:SEARch:PULSe:SOURce?            /*The query returns CHAN1.*/
```

3.22.12 :SEARch:PULSe:UWIDth

Syntax

:SEARch:PULSe:UWIDth <*width*>

:SEARch:PULSe:UWIDth?

Description

Sets or queries the upper limit of the pulse width for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<width>	Real	800 ps to 10 s	2 us

Remarks

N/A

Return Format

The query returns the upper limit of the pulse width in scientific notation.

Example

```
:SEARch:PULSe:UWIDth 1   /*Sets the upper limit of the pulse width
for the Pulse search type to 1 s.*/
:SEARch:PULSe:UWIDth?          /*The query returns 1.000000E0.*/
```

3.22.13 :SEARch:PULSe:LWIDth

Syntax

:SEARch:PULSe:LWIDth <*width*>

:SEARch:PULSe:LWIDth?

Description

Sets or queries the lower limit of the pulse width for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<width>	Real	800 ps to 10 s	1 us

Remarks

N/A

Return Format

The query returns the lower limit of the pulse width in scientific notation.

Example

```
:SEARch:PULSe:LWIDth 0.2   /*Sets the lower limit of the pulse
width for the Pulse search type to 200 ms.*/
:SEARch:PULSe:LWIDth?           /*The query returns 2.000000E-1.*/
```

3.22.14 :SEARch:PULSe:THReshold

Syntax

:SEARch:PULSe:THReshold <*thre*>

:SEARch:PULSe:THReshold?

Description

Sets or queries the threshold for the "Pulse" search type.

Parameter

Name	Type	Range	Default
<thre>	Real	(-5 × VerticalScale - OFFSet) to (5 × VerticalScale - OFFSet)	0.000 V

Remarks

N/A

Return Format

The query returns the threshold for the pulse search type in scientific notation.

Example

```
:SEARch:PULSe:THReshold 0.01          /*Sets the threshold to 10
mV.*/
:SEARch:PULSe:THReshold?           /*The query returns
1.000000E-2.*/
```