- SSETup: indicates the setup saving.
- AMEasure: indicates all measurement.
- **SRESet:** indicates statistics reset.
- RECord: indicates waveform recording.
- **SSAVe:** indicates saving group.

Return Format

The query returns SIM, SWAV, SSET, AME, REC, SSAV, or SRES.

Example

```
:QUICk:OPERation SWAVe /*Sets the type of the shortcut key to "save waveform".*/
:QUICk:OPERation? /*The query returns SWAV.*/
```

3.19 :RECord Commands

The :RECord commands are used to set and query the parameters related to the waveform recording mode and frames.

Waveform recording/playing function allows you to record and play the waveforms, enabling you to analyze the waveforms better.

3.19.1 :RECord:WRECord:ENABle

Syntax

:RECord:WRECord:ENABle < bool>

:RECord:WRECord:ENABle?

Description

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

Parameter

Name	Туре	Range	Default
<bool></bool>	Bool	{{1 ON} {0 OFF}}	0 OFF

Remarks

N/A

Return Format

The query returns 0 or 1.

Example

```
:RECord:WRECord:ENABle ON /*Enables the waveform recording function.*/
:RECord:WRECord:ENABle? /*The query returns 1.*/
```

3.19.2 :RECord:ENABle

Syntax

:RECord:ENABle < bool>

:RECord:ENABle?

Description

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

Parameter

Name	Туре	Range	Default
<bool></bool>	Bool	{{1 ON} {0 OFF}}	0 OFF

Remarks

This command exists for backwards compatibility. Use the command :RECord:WRECord:ENABle.

Return Format

The query returns 0 or 1.

Example

```
:RECord:ENABle ON /*Enables the waveform recording function.*/
:RECord:ENABle? /*The query returns 1.*/
```

3.19.3 :RECord:WRECord:OPERate

Syntax

:RECord:WRECord:OPERate < operate>

:RECord:WRECord:OPERate?

Description

Sets to start the waveform recording, or queries whether the waveform recording starts or stops.

Parameter

Name	Туре	Range	Default
<operate></operate>	Discrete	{RUN STOP}	STOP

Remarks

N/A

Return Format

The query returns RUN or STOP.

Example

```
:RECord:WRECord:OPERate RUN /*Sets to start recording waveforms.*/
:RECord:WRECord:OPERate? /*The query returns RUN.*/
```

3.19.4 :RECord:STARt

Syntax

:RECord:STARt < bool>

:RECord:STARt?

Description

Sets to start the waveform recording, or queries whether the waveform recording starts or stops.

Parameter

Name	Туре	Range	Default
<bool></bool>	Bool	{{1 ON} {0 OFF}}	0 OFF

Remarks

This command exists for backwards compatibility. Use the command :RECord:WRECord:OPERate.

Return Format

The query returns 1 or 0.

Example

```
:RECord:STARt ON /*Sets to start recording the waveforms.*/
:RECord:STARt? /*The query returns 1.*/
```

3.19.5 :RECord:WRECord:FRAMes

Syntax

:RECord:WRECord:FRAMes < value>

:RECord:WRECord:FRAMes?

Description

Sets or queries the number of frames for waveform recording.

Parameter

Name	Туре	Range	Default
<value></value>	Integer	1 to the maximum number of frames that can be recorded currently	1,000

Remarks

N/A

Return Format

The query returns an integer ranging from 1 to the maximum number of frames that can be recorded currently.

Example

```
:RECord:WRECord:FRAMes 300 /*Sets the number of recorded frames to 300.*/
:RECord:WRECord:FRAMes? /*The query returns 300.*/
```

3.19.6 :RECord:FRAMes

Syntax

:RECord:FRAMes < value>

:RECord:FRAMes?

Description

Sets or queries the number of frames for waveform recording.

Parameter

Name	Туре	Range	Default
<value></value>	Integer	1 to the maximum number of frames that can be recorded currently	1,000



Remarks

This command exists for backwards compatibility. Use the command :RECord:WRECord:FRAMes.

Return Format

The query returns an integer ranging from 1 to the maximum number of frames that can be recorded currently.

Example

```
:RECord:FRAMes 300 /*Sets the number of recorded frames to 300.*/
:RECord:FRAMes? /*The query returns 300.*/
```

3.19.7 :RECord:WRECord:FRAMes:MAX

Syntax

:RECord:WRECord:FRAMes:MAX

Description

Sets the number of recorded frames to the maximum number of frames.

Parameter

N/A

Remarks

N/A

Return Format

N/A

Example

```
:RECord:WRECord:FRAMes:MAX /*Sets the number of recorded frames to the maximum number of frames.*/
```

3.19.8 :RECord:WRECord: FMAX?

Syntax

:RECord:WRECord: FMAX?

Description

Queries the maximum number of frames that can be recorded currently.

Parameter

Remarks

N/A

Return Format

The query returns an integer. The maximum number of frames that can be recorded currently is determined by the current memory depth.

Example

N/A

3.19.9 :RECord:WRECord:FINTerval

Syntax

:RECord:WRECord:FINTerval < interval>

:RECord:WRECord:FINTerval?

Description

Sets or queries the time interval between frames in waveform recording.

Parameter

Name	Туре	Range	Default
<interval></interval>	Real	10 ns to 1 s	10 ns

Remarks

N/A

Return Format

The query returns the time interval in scientific notation. The unit is s.

Example

```
:RECord:WRECord:FINTerval 1 /*Sets the time interval between frames in waveform recording to 1 s.*/ :RECord:WRECord:FINTerval? /*The query returns 1.000000E0.*/
```

3.19.10 :RECord:WRECord:PROMpt

Syntax

:RECord:WRECord:PROMpt < bool>

:RECord:WRECord:PROMpt?

Description

Sets or queries the on/off status of the beeper when the recording is completed.

Parameter

Name	Туре	Range	Default
<bool></bool>	Bool	{{1 ON} {0 OFF}}	1 ON

Remarks

N/A

Return Format

The query returns 0 or 1.

Example

```
:RECord:WRECord:PROMpt ON /*Enables the beeper when the recording is completed.*/
:RECord:WRECord:PROMpt? /*The query returns 1.*/
```

3.19.11 :RECord:WREPlay:FCURrent

Syntax

:RECord:WREPlay:FCURrent < value>

:RECord:WREPlay:FCURrent?

Description

Sets or queries the current frame in waveform playing.

Parameter

Name	Туре	Range	Default
<value></value>	Integer	1 to the maximum number of frames recorded	The maximum number of frames recorded

Remarks

N/A

Return Format

The query returns an integer.

Example

```
:RECord:WREPlay:FCURrent 300 /*Sets the current frame for waveform playing to 300.*/
:RECord:WREPlay:FCURrent? /*The query returns 300.*/
```



3.19.12 :RECord:CURRent

Syntax

:RECord:CURRent < value>

:RECord:CURRent?

Description

Sets or queries the current frame in waveform playing.

Parameter

Name	Туре	Range	Default
<value></value>	Integer	1 to the maximum number of frames recorded	The maximum number of frames recorded

Remarks

This command exists for backwards compatibility. Use the command :RECord:WREPlay:FCURrent.

Return Format

The query returns an integer.

Example

```
:RECord:CURRent 300 /*Sets the current frame for waveform playing to 300.*/
:RECord:CURRent? /*The query returns 300.*/
```

3.19.13 :RECord:WREPlay:FCURrent:TIME?

Syntax

:RECord:WREPlay:FCURrent:TIME?

Description

Queries the time stamp of the current frame in waveform playing.

Parameter

N/A

Remarks

Return Format

Queries the time stamp of the current frame in strings in waveform playing.

Example

N/A

3.19.14 :RECord:WREPlay:FSTart

Syntax

:RECord:WREPlay:FSTart < start>

:RECord:WREPlay:FSTart?

Description

Sets or queries the start frame in waveform playback.

Parameter

Name	Туре	Range	Default
<start></start>	Integer	1 to the maximum number of frames that can be played back currently	-

Remarks

N/A

Return Format

The query returns the start frame in integer.

Example

```
:RECord:WREPlay:FSTart 10 /*Sets the start frame in waveform playing to 10.*/
:RECord:WREPlay:FSTart? /*The query returns 10.*/
```

3.19.15 :RECord:WREPlay:FEND

Syntax

:RECord:WREPlay:FEND < end>

:RECord:WREPlay:FEND?

Description

Sets or queries the end frame in waveform playback.

Parameter

Name	Туре	Range	Default
<end></end>	Integer	1 to the maximum number of frames recorded	-

Remarks

N/A

Return Format

The query returns the end frame in integer.

Example

```
:RECord:WREPlay:FEND 346 /*Sets the end frame for waveform playing to 346.*/
:RECord:WREPlay:FEND? /*The query returns 346.*/
```

3.19.16 :RECord:WREPlay:FMAX?

Syntax

:RECord:WREPlay:FMAX?

Description

Queries the maximum number of frames that can be played back currently.

Parameter

N/A

Remarks

N/A

Return Format

The query returns an integer ranging from 0 to the number of frames that have been recorded currently.

Example

N/A

3.19.17 :RECord:WREPlay:FINTerval

Syntax

:RECord:WREPlay:FINTerval < interval>

:RECord:WREPlay:FINTerval?

Description

Sets or queries the time interval between frames in waveform playback.

Parameter

Name	e	Туре	Range	Default
<inte< td=""><td>rval></td><td>Real</td><td>1 ms to 1 s</td><td>-</td></inte<>	rval>	Real	1 ms to 1 s	-

Remarks

N/A

Return Format

The query returns the time interval in scientific notation. The unit is s.

Example

```
:RECord WREPlay:FINTerval 1 /*Sets the time interval between frames in waveform playback to 1 s.*/
:RECord:WREPlay:FINTerval? /*The query returns 1.000000E0.*/
```

3.19.18 :RECord:WREPlay:MODE

Syntax

:RECord:WREPlay:MODE < mode>

:RECord:WREPlay:MODE?

Description

Sets the waveform playback mode to Repeat or Single; queries the waveform playback mode.

Parameter

I	Name	Type	Range	Default
	<mode></mode>	Discrete	{REPeat SINGle}	SINGle

Remarks

N/A

Return Format

The query returns REP or SING.

Example

```
:RECord:WREPlay:MODE REP /*Sets the playback mode to REP.*/
:RECord:WREPlay:MODE? /*The query returns REP.*/
```

3.19.19 :RECord:WREPlay:DIRection

Syntax

:RECord:WREPlay:DIRection < direction>

:RECord:WREPlay:DIRection?

Description

Sets or queries the playback direction in waveform playing.

Parameter

Name	Туре	Range	Default
<direction></direction>	Discrete	{FORWard BACKward}	FORWard

Remarks

N/A

Return Format

The query returns FORW or BACK.

Example

```
:RECord:WREPlay:DIRection BACK /*Sets the direction of waveform playback to BACK.*/
:RECord:WREPlay:DIRection? /*The query returns BACK.*/
```

3.19.20 :RECord:WREPlay:OPERate

Syntax

:RECord:WREPlay:OPERate < operate>

:RECord:WREPlay:OPERate?

Description

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

Parameter

Name	Туре	Range	Default
<operate></operate>	Discrete	{RUN STOP}	STOP

Remarks

Return Format

The query returns RUN or STOP.

Example

```
:RECord:WREPlay:OPERate RUN /*Sets to play the waveforms.*/
:RECord:WREPlay:OPERate? /*The query returns RUN.*/
```

3.19.21 :RECord:PLAY

Syntax

:RECord:PLAY < bool>

:RECord:PLAY?

Description

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

Parameter

Name	Туре	Range	Default
<bool></bool>	Bool	{{1 ON} {0 OFF}}	0 OFF

Remarks

This command exists for backwards compatibility. Use the command :RECord:WREPlay:OPERate.

Return Format

The query returns 1 or 0.

Example

```
:RECord:PLAY ON /*Sets to play the waveforms.*/
:RECord:PLAY? /*The query returns 1.*/
```

3.19.22 :RECord:WREPlay:BACK

Syntax

:RECord:WREPlay:BACK

Description

Plays back the previous frame of waveforms manually.

Parameter

Remarks

N/A

Return Format

N/A

Example

:RECord:WREPlay:BACK /*Plays back the previous frame of waveforms manually.*/

3.19.23 :RECord:WREPlay:NEXT

Syntax

:RECord:WREPlay:NEXT

Description

Plays back the next frame of waveforms manually.

Parameter

N/A

Remarks

N/A

Return Format

N/A

Example

:RECord:WREPlay:NEXT /*Plays back the next frame of waveforms manually.*/

3.19.24 :RECord:WREPlay:PLAY

Syntax

:RECord:WREPlay:PLAY < Val>

Description

Sets to play from the start frame or end frame manually.

Parameter

Name	Туре	Range	Default
<val></val>	Discrete	{FFIRst FEND}	FFIRst