

# UPP Remote Control Commands V4.0.4.159, 16.05.2016

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Differences between firmware version V4.0.3.136 and V4.0.4.159 are printed in **red** and marked with **(new)**.

**Blue comments** are specials relating to queries.

**Subsys<i>** is a replacement for the graphical subsystems SWEep, FFT, WAVEform and BARgraph

- SWEep<i>: i = 1 to 4
- FFT<i>: i = 1 or 2
- WAVEform<i>: i = 1
- BARgraph<i>: i = 1 or 2

## List of Remote Control Commands arranged in groups

Group	Command-Mnemonic	New
Adjust	DIAGnostic:ADJustment AAGEn or CAGEn AANLr0 or CANLr0 ADGEn	
Adjust	DIAGnostic:ADJustment:ADDRes <n>	
Adjust	DIAGnostic:ADJustment:FDATa <n>	
Anl Config	ARM:FREQuency:STARt <nu>	
Anl Config	ARM:FREQuency:STOP <nu>	
Anl Config	ARM:LEVel:MIN <nu>	
Anl Config	ARM:VOLTage:STARt <nu>	
Anl Config	ARM:VOLTage:STOP <nu>	
Anl Config	INPut:AUDIobits <n>  n = 8 ... 24	
Anl Config	INPut:BANDwidth:MODE B22 B40 B80	
Anl Config	INPut:BCLK:FREQuency?  <i>Query only</i>	

Group	Command-Mnemonic	New
Anl Config	INPut:CHANnel CH1 CH2 BOTH MULTi	
Anl Config	INPut:COUPling:CHANnels TRACk SPLit	
Anl Config	INPut:FBIT MSB LSB	
Anl Config	INPut:FILTer OFF UFIL1...9 AWE CCIR CARM CCIU CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT PEMP17 PEMP5015 PEMP50 PEMP75 URUM WRUM HP22 HP400 LP22 LP30 LP80 AES17 CWE	
Anl Config	INPut:FORMat SI2S USERdefined	
Anl Config	INPut:FSLope LFTFalling LFTRising	
Anl Config	INPut:MCHannels<ch> ON OFF  Digital Instrument: <ch> = 1 ... 2  Analog Instrument: <ch> = 1 ... 8	

Group	Command-Mnemonic	New
Anl Config	INPut:MIMPedance:CHANnels TRACk SPLit	
Anl Config	INPut:MIMPedance<ch> R200K R600  <ch> = 1 ... 8  Only for devices greater serial number 120100, 140100, 180100	
Anl Config	INPut:RANGe:CHANnels TRACk SPLit	
Anl Config	INPut:SAMPle:FREQUency <nu>	
Anl Config	INPut:SAMPle:FREQUency:MODE For analyzer instrument DIGITAL: AUTO F32 F44 F48 F88 F96 F176 F192 VALue  For analyzer instrument I2SBOARD: AUTO F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 VALue	
Anl Config	INPut:WLENgth W16 W24 W32	
Anl Config	INPut:WOffset <n>	
Anl Config	INPut<ch>:COUPling AC DC  <ch> = 1 ... 8	

Group	Command-Mnemonic	New
Anl Config	INSTRument2  ANLG ist Alias zu A8CHannel DIG or D48 I2Sboard or I2S HDMI  Alias  INSTRument2:NSElect 1   2   3   4   8 1 ist Alias zu A8CHannel 2 or 3 = DIG 4 = I2Sboard 8 = A8Channel 11 = HDMI	
Anl Config	SENSE:CMPIFactor <n>  <n> = 2 ... 1024	
Anl Config	SENSE:DATA:ALL? SENSE:DATA:ALL? MIN SENSE:DATA:ALL? MAX  <a href="#">Query only</a>	
Anl Config	SENSE:HDMI:ARCPort HDMI1 HDMI2 HDMI3 HDMI4 HDMI5 HDMI6	
Anl Config	SENSE:HDMI:AUDio:CODing PCM AUTodetect	
Anl Config	SENSE:HDMI:AUDio:CODing:DETEcted:STRing?  <a href="#">Query only</a>	
Anl Config	SENSE:HDMI:AUDio:CTS <n>	
Anl Config	SENSE:HDMI:AUDio:FORMat:MODE AUTO MANUal	
Anl Config	SENSE:HDMI:AUDio:FORMat? PCM2ch PCM8ch DBD DBDP DBTHd DTS DTSHd DTSMaster	
Anl Config	SENSE:HDMI:AUDio:INFoframe:STRing <String>	

Group	Command-Mnemonic	New
Anl Config	SENSe:HDmI:AUDio:INPut SINK SARC DIUnbal DIOptical	
Anl Config	SENSe:HDmI:AUDio:N <n>	
Anl Config	SENSe:HDmI:AVI:STRing <String>	
Anl Config	SENSe:HDmI:CEC:HANDshake ON OFF	
Anl Config	SENSe:HDmI:CEC:INIT ONCE   EXEC (can be omitted)	
Anl Config	SENSe:HDmI:EEDid:STRing <String>	
Anl Config	SENSe:HDmI:MPEG:INFOframe:STRing <String>  Query only	
Anl Config	SENSe:HDmI:NTSC:INFOframe:STRing <String>  Query only	
Anl Config	SENSe:HDmI:SPD:STRing <String>	
Anl Config	SENSe:HDmI:VENdor:INFOframe:STRing <String>  Query only	
Anl Config	SENSe:HDmI:VIDeo:FORMat <string>	
Anl Config	SENSe:HDmI:VIDeo:TIMing ON OFF	
Anl Config	SENSe:HDmI:VIDeo:TIMing:STRing <String>	
Anl Config	SENSe:POWer:REFerence:RESistance <nu>	
Anl Config	SENSe:REFerence <nu>	
Anl Config	SENSe:REFerence:CHANnel OFF CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	

Group	Command-Mnemonic	New
Anl Config	SENSE:REFERENCE:MODE Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: SENSE:REFERENCE:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSE:REFERENCE:MODE2 Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: SENSE:REFERENCE:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSE:REFERENCE2 <nu>	
Anl Config	SENSE:TRIGGER:SETTLING:COUNT <n>	
Anl Config	SENSE:TRIGGER:SETTLING:MODE OFF EXPONENTIAL FLAT	
Anl Config	SENSE:TRIGGER:SETTLING:RESOLUTION <nu>	
Anl Config	SENSE:TRIGGER:SETTLING:TOLERANCE <nu> PCT	

Group	Command-Mnemonic	New
Anl Config	SENSe:VOLTage:RANGe<ch>:MODE AUTO FIX LOWER  <ch> = 1 ... 8	
Anl Config	SENSe:VOLTage:RANGe<ch>:VALue <nu>  <ch> = 1 ... 16  <nu>: Range 200 mV: 0.2 Range 800 mV: 0.8 Range 3 V: 3 Range 12 V: 12 Range 50 V: 50  Query: The query answer is the nominal value of the range in volt without unit: Exceptionally the using of the query form "SENS:VOLT:RANG<i>:VALue? MIN or MAX" is not allowed.	
Anl Config	SENSe<i>:LEFT<ch> <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMLower<ch> ON OFF  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMLower<ch>:VALue <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMUpper<ch> ON OFF  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMUpper<ch>:VALue <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:RIGHT<ch> <nu>  <i> = 1   2   6 <ch> = 1   2	

Group	Command-Mnemonic	New
Anl Config	SENSe<x>:DATA<y>? MIN SENSe<x>:DATA<y>? MAX  Query only	
Anl Config	SENSe2:DATA:ALL? SENSe2:DATA:ALL? MIN SENSe2:DATA:ALL? MAX  Query only	
Anl Config	SENSe2:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe2:FUNcTion OFF IPEAk or IPEAK RMSFft DCFft	
Anl Config	SENSe2:REFeRence <nu>	
Anl Config	SENSe2:REFeRence:MODE Dual channel: CH1Store CH2Store STORe CH1Meas CH2Meas GENTrack DIGoutampl VALue  Multichannel: SENSe2:REFeRence:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSe2:UNAAuto ON OFF	
Anl Config	SENSe2:UNAAuto2 ON OFF	
Anl Config	SENSe2:UNIT V DBV DBR FS :	



Group	Command-Mnemonic	New
Anl Config	SENSe2:UNIT2 V DBV DBR FS :	
Anl Config	SENSe2:USERunit 'Unitstring'	
Anl Config	SENSe2:USERunit2 'Unitstring'	
Anl Config	SENSe3:DATA:ALL? SENSe3:DATA:ALL? MIN SENSe3:DATA:ALL? MAX  Query only	
Anl Config	SENSe3:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe3:FREQuency:APERture:MODE FAST PRECIision	
Anl Config	SENSe3:FREQuency:LEFT <nu>	
Anl Config	SENSe3:FREQuency:LIMLower ON OFF	
Anl Config	SENSe3:FREQuency:LIMLower:VALue <nu>	
Anl Config	SENSe3:FREQuency:LIMUpper ON OFF	
Anl Config	SENSe3:FREQuency:LIMUpper:VALue <nu>	
Anl Config	SENSe3:FREQuency:REFerence <nu>	

Group	Command-Mnemonic	New
Anl Config	SENSE3:FREQUENCY:REFERENCE:MODE Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store  CH1Store ... CH8Store and STORE are actions, afterwards the internal state is VALue, so the query answer is VALue.	
Anl Config	SENSE3:FREQUENCY:RIGHT <nu>	
Anl Config	SENSE3:FREQUENCY:UNAuto ON OFF	
Anl Config	SENSE3:FREQUENCY:UNIT HZ DHZ DPCTHZ TERZ OCT DEC FFR	
Anl Config	SENSE3:FREQUENCY:USERunit 'Unitstring'	
Anl Config	SENSE3:FUNCTION OFF FREQUENCY FQPHase FQGRoupdelay FQSamplefrequency SFREQUENCY	
Anl Config	SENSE3:GROUPELAY:REFERENCE <nu> 0 ... 10 s	

Group	Command-Mnemonic	New
Anl Config	SENSe3:PHASe:FORMat POSitive POSNegative NEGative RAD RADBipolar RADNegative INFinite	
Anl Config	SENSe3:PHASe:LEFT <nu>	
Anl Config	SENSe3:PHASe:LIMLower ON OFF	
Anl Config	SENSe3:PHASe:LIMLower:VALue <nu>	
Anl Config	SENSe3:PHASe:LIMUpper ON OFF	
Anl Config	SENSe3:PHASe:LIMUpper:VALue <nu>	
Anl Config	SENSe3:PHASe:REFerence <nu> -360° ...+360° -6,32832 ... +6,32832 RAD	
Anl Config	SENSe3:PHASe:REFerence:MODE Dual Channel: STORe VALue GENTrack  STORe is an action, the internal state is VALue, so the query answer is always VALue.  Multichannel: VALue GENTrack	
Anl Config	SENSe3:PHASe:RIGHT <nu>	
Anl Config	SENSe3:PHASe:UNAuto ON OFF	
Anl Config	SENSe3:PHASe:UNIT DEG RAD DDEG DRAD S DS	
Anl Config	SENSe3:PHASe:USERunit 'Unitstring'	
Anl Config	SENSe4:DATA?	

Group	Command-Mnemonic	New
Anl Config	SENSe6:DATA:ALL? SENSe6:DATA:ALL? MIN SENSe6:DATA:ALL? MAX  Query only	
Anl Config	SENSe6:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe6:FUNcTION OFF LRMS DC PEAK	
Anl Config	SENSe6:REFerence <nu>	
Anl Config	SENSe6:REFerence:MODE Dual Channel: CH1Store CH2Store STORE CH1Meas CH2Meas GENTrack VALue  Multichannel: SENSe6:REFerence:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSe6:UNAuto ON OFF	
Anl Config	SENSe6:UNAuto2 ON OFF	
Anl Config	SENSe6:UNIT V DBV DBR FS :	

Group	Command-Mnemonic	New
Anl Config	SENSe6:UNIT2 V DBV DBR FS :	
Anl Config	SENSe6:USERunit 'Unitstring'	
Anl Config	SENSe6:USERunit2 'Unitstring'	
Anl Config	SENSe7:FUNcTION OFF ON	
Anl Config	SENSe7:MMODE STANdard COMPRessed USAMple	
Anl Config	SENSe7:TRIGger:AUTO ON OFF	
Anl Config	SENSe7:TRIGger:LEVel <nu>	
Anl Config	SENSe7:TRIGger:PRE <nu>	
Anl Config	SENSe7:TRIGger:SLOPe RISing FALLing	
Anl Config	SENSe7:TRIGger:SOURce Dual channel: CH1 CH2 MANual GENBurst  Multichannel: TRGChannel MANual GENBurst	
Anl Config	SENSe7:TRIGger:TRCLength <nu>	
Anl Config	TRIGger:CHANnel OFF CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	
Anl Config	TRIGger:COUNt <n>	
Anl Config	TRIGger:DELay <nu>	
Anl Config	TRIGger:FREQUency:VARiation <nu>	

Group	Command-Mnemonic	New
Anl Config	TRIGger:SOURce Dual Channel: AUTO or IMMEDIATE TIMer TCHart CH1Freq CH2Freq CH1Rapidfreq CH2Rapidfreq CH1Level CH2Level CH1Trigger CH2Trigger CH1Edgetrigger CH2Edgetrigger  Multichannel: AUTO TIMer FREQuency RAPIdfreq LEVel TRIGger EDGetrigger	
Anl Config	TRIGger:TIMer <nu>	
Anl Config	TRIGger:VOLTage:VARiation <nu>	
Anl Funct	MMEMory:LOAD:FREQuency:SLCFrequency 'filename'	
Anl Funct	MMEMory:LOAD:IEQualize 'filename'	
Anl Funct	SENSE:Bandwidth <nu>	
Anl Funct	SENSE:Bandwidth:MODE PPCT1 PPCT3 POCT12 PTOC PFAS PFIx SPCT1 SPCT3 SOCT12 STOC SFAS SFIX	
Anl Funct	SENSE:CHANnel:DELay <nu>	
Anl Funct	SENSE:CHIRPbased:DISTortion<i>:SWEep<n>:A   B ON OFF  <i>: 2 ... 9 <n>: 1 ... 4	

Group	Command-Mnemonic	New
Anl Funct	SENSE:CHIRpbased:MMODE:SWEep<n>:A   B FRQResponse PHAResponse THDLevel THD  <n>: 1 ... 4	
Anl Funct	SENSE:CHIRpbased:POINts?  Query only	
Anl Funct	SENSE:CHIRpbased:RESolution?  Query only	
Anl Funct	SENSE:DATA<ch>?  <ch> = 1 ... 8	
Anl Funct	SENSE:FILTer<i> OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DEMP17 DEMP5015 DEMP50 DEMP75 DCN IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE  <i> = 1, 2	
Anl Funct	SENSE:FREQuency <nu>	

Group	Command-Mnemonic	New
Anl Funct	SENSe:FREQuency:FACTOR <nu>	
Anl Funct	SENSe:FREQuency:LIMit ON OFF	
Anl Funct	SENSe:FREQuency:LIMit:LOWer <nu>	
Anl Funct	SENSe:FREQuency:LIMit:UPPer <nu>	
Anl Funct	SENSe:FREQuency:SElect CW or FIXed GENTrack CH1Freq Alias CH1 CH2Freq Alias CH2 AUToboth or AUTOboth  Multichannel: SENSe:FREQuency:SElect CW or FIXed GENTrack REFFrequency AUToboth or AUTOboth	
Anl Funct	SENSe:FUNCTion OFF RMS RMSselect PEAK SN FFT THD THDNsdr MDISt DFD POLarity NOCTave LIPSync BERT CHIRpbased	
Anl Funct	SENSe:FUNCTion:APERture:MODE  For analyzer function RMS AFASt AUTO GENTrack VALue  For analyzer function S/N in MeasMode Pos Peak, Neg Peak, Pk to Pk and Abs Peak FAST SFASt SLOW  For analyzer function THD+N/SINAD WIDE MEDium NARRow	



Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:BARGraph ON OFF	
Anl Funct	SENSe:FUNcTion:DCSuppression ON OFF	
Anl Funct	SENSe:FUNcTion:DELay:MODE MANual AUTO	
Anl Funct	SENSe:FUNcTion:DELay:VALue <nu>	
Anl Funct	SENSe:FUNcTion:DISTortion<i> ON OFF  <i> = 2 ... 9 describes harmonics	
Anl Funct	SENSe:FUNcTion:DMIN <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:DMAX <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:FFT:AVERage <n> 1 ... 10000	
Anl Funct	SENSe:FUNcTion:FFT:AVERage:MODE OFF NORMal EXPOntial	
Anl Funct	SENSe:FUNcTion:FFT:MODE STANdard GAPLess OVERlapping	
Anl Funct	SENSe:FUNcTion:FFT:MTIME?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:OVLFactor <nu>  <nu>: 0 ... 50 PCT	
Anl Funct	SENSe:FUNcTion:FFT:RESolution?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:Size S512 S1K S2K S4K S8K S16K S32K S64K S128K S256K	

Group	Command-Mnemonic	New
Anl Funct	SENSE:FUNCTION:FFT:START?  Query only	
Anl Funct	SENSE:FUNCTION:FFT:STATE ON OFF	
Anl Funct	SENSE:FUNCTION:FFT:STOP?  Query only	
Anl Funct	SENSE:FUNCTION:FFT:TRIGGERED ON OFF	
Anl Funct	SENSE:FUNCTION:FFT:WINDOW RECTANGULAR HANN BLACKMAN_HARRIS RIF1 RIF2 RIF3 HAMMING FLATTOP	
Anl Funct	SENSE:FUNCTION:MMODE  <b>Peak:</b> PPEak NPEak PTOPEak PABSolut  <b>THD:</b> SELEctdi LSELEctdi DALL LDALI DODD LDODd DEVen LDEVen DMM LDMM  <b>DFD:</b> D2_268 or D2 D3_268 or D3 D2_118 D3_118  <b>SN:</b> RMS PPEak NPEak PTOPEak PABSolut  <b>THD+N:</b> THDN LTHDn SNDRatio Alias SINad NOISE LNOise  <b>NOCTave:</b> OCT1 OCT3 OCT6 OCT12 OCT24 CBANd	(new)
Anl Funct	SENSE:FUNCTION:REFNMENT N1 N2 N4 N8	

Group	Command-Mnemonic	New
Anl Funct	SENSE:FUNCTION:REFTo TRGIn REFCh	
Anl Funct	SENSE:FUNCTION:SETTLing:COUNT <n>	
Anl Funct	SENSE:FUNCTION:SETTLing:MODE OFF EXPOntial FLAT AVERAge	
Anl Funct	SENSE:FUNCTION:SETTLing:RESolution <nu>	
Anl Funct	SENSE:FUNCTION:SETTLing:TOLerance <nu> PCT	
Anl Funct	SENSE:FUNCTION:SETTLing:TOUT <nu>	
Anl Funct	SENSE:FUNCTION:SNSequence ON OFF	
Anl Funct	SENSE:LIPSync:AUDio:THReshold:HIGH <nu>	
Anl Funct	SENSE:LIPSync:AUDio:THReshold:LOW <nu>	
Anl Funct	SENSE:LIPSync:COLor:THReshold:HIGH:STRing <string>  <string> z.B. '(255,255,255)'	
Anl Funct	SENSE:LIPSync:COLor:THReshold:LOW:STRing <string>  <string> z.B. '(255,255,255)'	
Anl Funct	SENSE:SWEEp:CONTRol OFF ASWEEP ALISt	
Anl Funct	SENSE:SWEEp:POINts <n>	
Anl Funct	SENSE:SWEEp:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Anl Funct	SENSE:SWEEp:STARt <nu>	
Anl Funct	SENSE:SWEEp:STEP <nu>	
Anl Funct	SENSE:SWEEp:STOP <nu>	
Anl Funct	SENSE:THDN:REJection NARRow WIDE	
Anl Funct	SENSE:UNAAuto ON OFF	
Anl Funct	SENSE:UNAAuto2 ON OFF	

Group	Command-Mnemonic	New
Anl Funct	SENSe:UNIT V DBV DBR FS :	
Anl Funct	SENSe:UNIT2 V DBV DBR FS :	
Anl Funct	SENSe:USERunit 'Unitstring'	
Anl Funct	SENSe:USERunit2 'Unitstring'	
Anl Funct	SENSe:VOLTage:APERture <nu>	
Anl Funct	SENSe:VOLTage:EQualize ON OFF	
Anl Funct	SENSe:VOLTage:FUNDamental <nu>	
Anl Funct	SENSe:VOLTage:FUNDamental:MODE AUTO VALue GENTrack	
Anl Funct	SENSe:VOLTage:INTVtime <nu>	
Anl Funct	SENSe:VOLTage:INTVtime:MODE SFASt (for Peak measurement only) FAST (for Peak measurement only) SLOW (for Peak measurement only) FIXed or FIX3 (for QuasiPeak only) VALue (for Peak and QuasiPeak)	
Anl Proto	SENSe8:FUNcTION OFF ON	
Anl Proto	SENSe8:PROTOcol:CH<x>:BYTE<y>?  <x> are <y> suffixes <x> = Channel 1 or 2 <y> = Byte 0 ... 4 Retrunvalue = 0 ... 255  <a href="#">Query only</a>	
Anl Proto	SENSe8:PROTOcol:DISPlay ON OFF	

Group	Command-Mnemonic	New
Anl Proto	SENSE8:PROTOcol:ERRor:PCM<i>?</i> SENSE8:PROTOcol:ERRor:PAR<i>?</i> SENSE8:PROTOcol:ERRor:LOC<i>?</i> SENSE8:PROTOcol:ERRor:CRC<i>?</i> SENSE8:PROTOcol:ERRor:INV<i>?</i>  <i> = 1 or 2 for Ch 1 or Ch 2  Query only "0" = no error "1" = error	
Anl Proto	SENSE8:PROTOcol:ERRor?  Query only Answer: 0,"No error" or <n>,"PCM1,PCM2,PAR1,PAR2,..." <n> represents 10 Bits (d0 ... d9) <n> = 0 ... 1023 d0: PCM1 d1: PCM2 d2: PAR1 d3: PAR2 d4: LOC1 d5: LOC2 d6: CRC1 d7: CRC2 d8: INV1 d9: INV2	
Anl Proto	SENSE8:PROTOcol:HIGHlight NOTHing FOUTput BETWeen FSTart	
Anl Proto	SENSE8:PROTOcol:MODE AUTomatic or AUTOMatic CONSumer PROFessional	
Anl Proto	SENSE8:PROTOcol:PERSistence SHORt LONG FORever	
Anl Proto	SENSE8:PROTOcol:VIEW BINText BINonly	
Aud Mon	AUXiliaries:AUDMonitor ON OFF	
Aud Mon	AUXiliaries:SIGSource TRACK SPLit	

Group	Command-Mnemonic	New
Aud Mon	AUXiliaries:SPEaker:MONitor<ch> OFF CH1 CH2 : Ch8  ch = 1   2	
Aud Mon	AUXiliaries:SPEaker:SOURce<ch> INPut FUNCTion DC  <ch> = 1   2	
Aud Mon	AUXiliaries:SPEaker:VOLume<ch> <n>  <ch> = 1   2 <n> 0 ... -120	
Aud Mon	AUXiliaries:VOLTage<ch> <nu>  ch = 1   2	
Config	SYSTem:CASCade:PORTno <n>  <n> = 49152 ... 65535	
Config	SYSTem:CHNString 'String'  String: 'Ch1;;Ch2;;Ch3;;Ch4;; .... ;;Ch8'	
Config	SYSTem:COMMunicate:GPIB:ADDRess <n>  <n> = 0 ... 31	
Config	SYSTem:DISPlay:SCPIUpdate OFF ON	
Config	SYSTem:HELP:LANGUage ENGLish GERMan	
Config	SYSTem:MAXChdisp <n>  <n> = 1 ... 8	
Config	SYSTem:PROFile:CLIPboard 'Filename'	
Config	SYSTem:PROFile:FILE 'Filename'	
Config	SYSTem:PROFile:PRINter 'Filename'	
Config	SYSTem:PROFile:SCREen 'Filename'	
Config	SYSTem:QLONG OFF ON	
Config	SYSTem:WINStyle <del>OFF</del> ON	(new)

Group	Command-Mnemonic	New
Diagnostic	DIAGnostic:PASSword "Password"  The password is not disclosed here! The query answer is 'Passwrđ ok', not the actual password.	
Display	DISPlay:SCREen <n> <n> = 1...5	
Display	DISPlay:Subsys:COPIYother:CFG 'String'  Not for subsystem WAVeform. This command is allowed only for the first window of a subsystem, otherwise error message. Valid keywords in 'String': SCAN Y-SOURCE Y-LABEL Y-UNIT REFERENCE Y-SCALE LIMIT X-SOURCE X-AXIS LEGEND STORE TRACE  Example: "Y-UNIT,LIMIT,Y-LABEL,Y-SOURCE"	
Display	DISPlay:Subsys<i>:A B:BOTTom <nu>	
Display	DISPlay:Subsys<i>:A B:CHANnel CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	
Display	DISPlay:Subsys<i>:A B:LABel:AUTO ON OFF	
Display	DISPlay:Subsys<i>:A B:LABel:USER 'string'	
Display	DISPlay:Subsys<i>:A B:LEGend:DESCRiption "String"	
Display	DISPlay:Subsys<i>:A B:LEGend:SHOW ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMLower ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMLower:SOURce VALue HOLD FILE IFILE	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:A B:LIMLower:SOURce:FILE 'filename'	
Display	DISPlay:Subsys<i><i>:A B:LIMLower:SOURce:VALue <nu>	
Display	DISPlay:Subsys<i><i>:A B:LIMShift ON OFF	
Display	DISPlay:Subsys<i><i>:A B:LIMShift:PARAllel <nu>	
Display	DISPlay:Subsys<i><i>:A B:LIMShift:SYMMetrical <nu>	
Display	DISPlay:Subsys<i><i>:A B:LIMUpper ON OFF	
Display	DISPlay:Subsys<i><i>:A B:LIMUpper:SOURce VALue HOLD FILE IFILe	
Display	DISPlay:Subsys<i><i>:A B:LIMUpper:SOURce:FILE 'filename'	
Display	DISPlay:Subsys<i><i>:A B:LIMUpper:SOURce:VALue <nu>	
Display	DISPlay:Subsys<i><i>:A B:MARKer:HARMonics ON OFF	
Display	DISPlay:Subsys<i><i>:A B:MARKer:MODE OFF FIXed TRKMax	
Display	DISPlay:Subsys<i><i>:A B:MARKer:SETTo:OCURsor ONCE or EXEC DISPlay:Subsys<i><i>:A B:MARKer:SETTo:XCURsor ONCE or EXEC  ONCE or EXEC are not necessary  <a href="#">No query</a>	
Display	DISPlay:Subsys<i><i>:A B:MARKer:SETTo:XPOS <nu>	
Display	DISPlay:Subsys<i><i>:A B:NORMalize OFF VALue OCURsor XCURsor  All subsystems except WAVeform	
Display	DISPlay:Subsys<i><i>:A B:NORMalize:VALue <nu>  All subsystems except WAVeform	



Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:A B:REFerence MEASpanel VALue MAXimum XCURsor OCURsor REF997 REF1000 CH1Meas CH2Meas GENTrack FILE HOLD IFILe NOISedensity DBNOisedensity MREFchannel	
Display	DISPlay:Subsys<i><i>:A B:REFerence:FILE 'filename'	
Display	DISPlay:Subsys<i><i>:A B:REFerence:VALue <nu>	
Display	DISPlay:Subsys<i><i>:A B:SPACing LINear LOGarithmic	
Display	DISPlay:Subsys<i><i>:A B:TOP <nu>	
Display	DISPlay:Subsys<i><i>:A B:UNIT V DBV DBU :	
Display	DISPlay:Subsys<i><i>:A B:UNIT:AUTO ON OFF	
Display	DISPlay:Subsys<i><i>:A B:UNIT:TRACk ON OFF	
Display	DISPlay:Subsys<i><i>:A B:UNIT:USER 'string'	
Display	DISPlay:Subsys<i><i>:A B:UPDate ALIVE HOLD	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i>:A B:YSource  <b>SWEep 2-kanalig:</b> OFF   FUNC1   FUNC2   FREQ1   FREQ2   PHASe   GROUpdelay   LMRM1   LMRM2   LMDC1   LMDC2   LMPK1   LMPK2   INPP1   INPP2   FILEA   FILEB  <b>SWEep 8-kanalig:</b> OFF   FUNcTion   FREQuency   PHASe   GROUpdelay   LMRMs   LMDC   LMPK   INPPeak   FILEA   FILEB  <b>FFT 2-kanalig:</b> OFF   FFTL1   FFTL2   FFTP1   FFTP2   FILEA   FILEB   FFTP21  <b>FFT 8-kanalig:</b> FFTLevel   FFTPhase   FFTRefchphase   FILEA   FILEB  <b>WAVeform 2-kanalig:</b> OFF   LEV1   LEV2   FILEA   FILEB  <b>WAVeform 8-kanalig:</b> OFF   LEVeI   FILEA   FILEB  <b>BARGraph 2-kanalig:</b> OFF   FUNC1   FUNC2   FILEA   FILEB  <b>BARGraph 8-kanalig:</b> OFF   FUNcTion   FILEA   FILEB	
Display	DISPlay:Subsys<i>:A B:YSource:FILE 'filename'	
Display	DISPlay:Subsys<i>:DLISt:FILTer ALL LIMUpper LIMLower LIMBoth HARMonics PEAKs	
Display	DISPlay:Subsys<i>:MCHMode ON OFF  Subsys = SWEep or FFT or WAV or BARG	
Display	DISPlay:Subsys<i>:MINMax ON OFF  Subsys = SWEep or FFT or BARGraph	
Display	DISPlay:Subsys<i>:OCURsor:MODE VA VB VAB HA HB	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:OCURsor:POSMode PIXel POINT PEAK HARMonic	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MAX ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MAX ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MIN ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MIN ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MRKA ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MRKA ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MRKB ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MRKB ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:XPOS <nu>	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:YPOS <nu>  For horizontal cursor only	
Display	DISPlay:Subsys<i><i>:OCURsor:STATe OFF ACTive INACTive	
Display	DISPlay:Subsys<i><i>:OCURsor:Y?  Query only	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i>:SCANoffset <n> <i> = 1, 2, 3, 4 <n> = -19 -18 : 0 1 (MIN) 2 (MAX)  Query and command logging show the numerical value 2 for MAX and 1 for MIN	
Display	DISPlay:Subsys<i>:TITLE:DESCRiption "String"	
Display	DISPlay:Subsys<i>:TITLE:SHOw ON OFF	
Display	DISPlay:Subsys<i>:TRACk:LIMit ON OFF	
Display	DISPlay:Subsys<i>:TRACk:REFerence ON OFF	
Display	DISPlay:Subsys<i>:TRACk:SCALing ON OFF	
Display	DISPlay:Subsys<i>:X:LABel:AUTO ON OFF	
Display	DISPlay:Subsys<i>:X:LABel:USER 'string'	
Display	DISPlay:Subsys<i>:X:LEFt <nu>	
Display	DISPlay:Subsys<i>:X:REFerence:VALue <nu>	
Display	DISPlay:Subsys<i>:X:RIGHt <nu>	
Display	DISPlay:Subsys<i>:X:SCALing AUTO MANual	
Display	DISPlay:Subsys<i>:X:SPACing LINear LOGarithmic	
Display	DISPlay:Subsys<i>:X:UNIT HZ DHZ :	
Display	DISPlay:Subsys<i>:X:UNIT:AUTO ON OFF	
Display	DISPlay:Subsys<i>:X:UNIT:USER 'string'	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:XCURsor:MODE VA VB VAB HA HB	
Display	DISPlay:Subsys<i><i>:XCURsor:POSMode PIXel POINT PEAK HARMonic	
Display	DISPlay:Subsys<i><i>:XCURsor:SETTo:XPOS <nu>	
Display	DISPlay:Subsys<i><i>:XCURsor:SETTO:YPOS <nu>  Horizontal cursor only	
Display	DISPlay:Subsys<i><i>:XCURsor:STATe OFF ACTive INACTive	
Display	DISPlay:Subsys<i><i>:XCURsor:Y?  <a href="#">Query only</a>	
Display	DISPlay:SWEep<i><i>:HISTory <n>  <n> = 2 ... 20  Subsystem SWEep only	
Display	DISPlay:SWEep<i><i>:SMODE SINGlescan MULTiscan  Subsystem SWEep only	
Display	DISPlay:SWEep<i><i>:X:AXIS TIME VOLTage FREQuency PHASe VDIGital	
Display	DISPlay:SWEep<i><i>:X:SOURce SWEep HOLD MANual LRMS LDC LPEak FREQuency	
Display	MMEMory:Subsys<i><i>:LIMit:OFFSet:VALue <nu>	
Display	SENSe:CONFig:COPIYother ONCE or EXEC  ONCE or EXEC are not necessary	

Group	Command-Mnemonic	New
Display	SENSe2:CONFIg:COPIother ONCE or EXEC  ONCE or EXEC are not necessary	
Display	SENSe6:CONFIg:COPIother ONCE or EXEC  ONCE or EXEC are not necessary	
Filter	SENSe:UFILter<i> HPASs LPASs BPASs BSTOp   BSTOp NOTCh TOCTave OCTave FILE  <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:ATTenuation <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:CENTer <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:DELay <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:FNAMe 'filename' <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:ORDer N4 N8 <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:PASSb <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:PASSb:LOWer <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:PASSb:UPPer <nu> <i> = 1 ... 9	
Filter	SENSe:UFILter<i>:STOPb:LOWer? <i> = 1 ... 9  <a href="#">Query only</a>	
Filter	SENSe:UFILter<i>:STOPb:UPPer? <i> = 1 ... 9  <a href="#">Query only</a>	
Filter	SENSe:UFILter<i>:STOPb? <i> = 1 ... 9  <a href="#">Query only</a>	

Group	Command-Mnemonic	New
Filter	SENSe:UFILter<i>:</i>WIDTh <nu> <i> = 1 ... 9	
Gen Config	INSTRument Alias INSTRument:SElect ANLG or A25 DIG or D48 I2Sboard or I2S HDMI  Alias INSTRument:NSElect 1   2   3   4 1 = ANLG 2 or 3 = DIG 4 = I2Sboard 11 = HDMI	
Gen Config	OUTPut ON OFF	
Gen Config	OUTPut:AUDIobits <n>	
Gen Config	OUTPut:BANDwidth:MODE B22 B40 B80 AUTO	
Gen Config	OUTPut:BCLK:FREQuency?  <a href="#">Query only</a>	
Gen Config	OUTPut:CHANnel OFF CH1 CH2 CH2Is1 MULTi	
Gen Config	OUTPut:FBIT MSB LSB	
Gen Config	OUTPut:FORMat S12S USERdefined	
Gen Config	OUTPut:FSHape SQUpuls BITPulse	
Gen Config	OUTPut:FSYNc:FREQuency?  <a href="#">Query only</a>	
Gen Config	OUTPut:IMPedance R25 R600  Only for devices greater serial number 120100, 140100, 180100	

Group	Command-Mnemonic	New
Gen Config	OUTPut:IMPedance:UNBalanced?  Query only Answer always 25 Ohm	
Gen Config	OUTPut:MCHannels<ch> ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Config	OUTPut:MCLKratio M64 M96 M128 M192 M256 M384 M512	
Gen Config	OUTPut:POLarity  For OUTP:FPU SQU OUTPut:POLarity LFTLow LFTHigh  For OUTP:FPU BITP OUTPut:POLarity NEGative POSitive	
Gen Config	OUTPut:RESync ONCE   EXEC (can be omitted)	
Gen Config	OUTPut:SAMple:FREQuency <nu>	



Group	Command-Mnemonic	New
Gen Config	OUTPut:SAMPlE:MODE  For generator instrument DIGITAL: F32 F44 F48 F88 F96 F176 F192 SYNChron VALue  For generator instrument I2SBOARD: F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 F384 VALue	
Gen Config	OUTPut:SIGNal:BALanced:LEVel <nu>	
Gen Config	OUTPut:SIGNal:LEVel <nu>	
Gen Config	OUTPut:TYPE BALanced UNBalanced	
Gen Config	OUTPut:WLENgth W16 W24 W32	
Gen Config	OUTPut:WOffset <n>  If (OUTPut:WRDLength == 16) <n> = -16 ... 15 If (OUTPut:WRDLength == 24) <n> = -24 ... 23 If (OUTPut:WRDLength == 32) <n> = -32 ... 31	
Gen Config	SENSE:HDMI:VIDeo:COLor:DEPTH D08 D10 D12	
Gen Config	SOURce:FREQUency:REFerence <nu> Grundeinheit: Hz	

Group	Command-Mnemonic	New
Gen Config	SOURce:HDMI:AUDio:FORMat PCM2ch PCM8ch DBD DBDP DBTHd DTS DTSHd DTSMaster	
Gen Config	SOURce:HDMI:AUDio:INFOframe:STRing <String>	
Gen Config	SOURce:HDMI:AVI:STRing <String>	
Gen Config	SOURce:HDMI:CEC:STRing <String>	
Gen Config	SOURce:HDMI:EEDid:STRing <String>	
Gen Config	SOURce:HDMI:HDCP ON OFF	
Gen Config	SOURce:HDMI:MPEG:INFOframe:STRing <String>  Query only	
Gen Config	SOURce:HDMI:NTSC:INFOframe:STRing <String>  Query only	
Gen Config	SOURce:HDMI:SARC LOOPback DAGen	
Gen Config	SOURce:HDMI:SPD:STRing <String>	
Gen Config	SOURce:HDMI:VENDor:INFOframe:STRing <String>  Query only	
Gen Config	SOURce:HDMI:VIDeo:COLor:DEPTh D08 D10 D12	
Gen Config	SOURce:HDMI:VIDeo:COLor:STRing <String>	
Gen Config	SOURce:HDMI:VIDeo:CONTent MONochrom LIPSync BERT PATTern	
Gen Config	SOURce:HDMI:VIDeo:CONTent:STRing <String>	
Gen Config	SOURce:HDMI:VIDeo:FORMat <string>	

Group	Command-Mnemonic	New
Gen Config	SOURce:HDMI:VIDeo:FREQuency HZ23 HZ24 HZ25 HZ29 HZ30 HZ50 HZ59 HZ60 HZ100 HZ119 HZ120	
Gen Config	SOURce:HDMI:VIDeo:RESolution P640x480_4x3 P720x576_4x3 P720x576_16x9 I720x576_4x3 I720x576_16x9 P720x480_4x3 P720x480_16x9 I720x480_4x3 I720x480_16x9 P1280x720_16x9 P1920x1080_16x9 I1920x1080_16x9	
Gen Config	SOURce:HDMI:VIDeo:SOURce INTern AXINput	
Gen Config	SOURce:SYNC:INPut BALanced UNBalanced	
Gen Config	SOURce:SYNC:TERMination R75 RHIGH	
Gen Config	SOURce:SYNC:TO  For generator instrument Digital Audio: INTClock or GCLock AINPut EDARs ECLK EICLk  For generator instrument I2S Board: INTern EXTMasterclock EXTWordclock  For HDMI: HINTern HAUXinput	
Gen Config	SOURce:VOLTag:e:MAXimum <nu>	

Group	Command-Mnemonic	New
Gen Config	SOURce:VOLTage:RANGe AUTO FIX	
Gen Config	SOURce:VOLTage:REFerence <nu>	
Gen Funct	MMEMory:LOAD:ARBitrary 'filename'	
Gen Funct	MMEMory:LOAD:DWELI 'filename'	
Gen Funct	MMEMory:LOAD:FREQUency 'file'	
Gen Funct	MMEMory:LOAD:MCHannel<ch>:SINE:ARBitrary 'filename'	
Gen Funct	MMEMory:LOAD:MCHannel<ch>:SINE:EQUalize 'filename'	
Gen Funct	MMEMory:LOAD:OEQualize 'filename'	
Gen Funct	MMEMory:LOAD:PHASe 'filename'	
Gen Funct	MMEMory:LOAD:STEReo2:OEQualize 'filename'	
Gen Funct	MMEMory:LOAD:VOLTage 'filename'	
Gen Funct	SOURce:ACHSine:FREQUency <nu>	
Gen Funct	SOURce:ACHSine:STATe ON OFF	
Gen Funct	SOURce:ACHSine:VOLTage <nu>	
Gen Funct	SOURce:ARBitrary:MODE TOCont TIMManual	
Gen Funct	SOURce:ARBitrary:RELoad ONCE   EXEC (can be omitted)	
Gen Funct	SOURce:ARBitrary:TIME <nu>	
Gen Funct	SOURce:FADIn:VALue <nu>	
Gen Funct	SOURce:FADOut:MODE OFF STPFrequency CHIRp	
Gen Funct	SOURce:FADOut:VALue <nu>	

Group	Command-Mnemonic	New
Gen Funct	SOURce:FILTer Alias SOURce:STEReo:FILTer OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE	
Gen Funct	SOURce:FILTer:CHANnels TRACK SPLit	
Gen Funct	SOURce:FREQuency <nu>	
Gen Funct	SOURce:FREQuency:CH2Stereo <nu>	
Gen Funct	SOURce:FREQuency:DIFFerence <nu>	
Gen Funct	SOURce:FREQuency:MEAN <nu>	
Gen Funct	SOURce:FREQuency:SElect FQPH FQFQ	
Gen Funct	SOURce:FREQuency<i> <nu> <i> = 3 ... 32	
Gen Funct	SOURce:FREQuency2 <nu>	

Group	Command-Mnemonic	New
Gen Funct	SOURce:FUNCTion SINusoid STEReo MULTisine BURSt MDISt DFD RANDom ARBitrary POLarity DC SQUare PLAY UNIVersal LIPSync	
Gen Funct	SOURce:FUNCTion:MODE For Multisinus: EQUalvoltage DEFinedvoltage  For DFD: IEC268 IEC118	
Gen Funct	SOURce:INTerval <nu>	
Gen Funct	SOURce:LIPSync:PATTern:AUDioactive:COLor:STRing <string>  <string> z.B. '(255,255,255)'	
Gen Funct	SOURce:LIPSync:PATTern:MUTE:COLor:STRing <string>  <string> z.B. '(255,255,255)'	
Gen Funct	SOURce:MCHannel<ch>:ACHSine:STATe ON OFF Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:FILTer OFF : Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:GAIN <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:LIMittofs <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	

Group	Command-Mnemonic	New
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:DELay <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:EQUalize:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:FREQUency <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:OFFset:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:OFFset:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:PHASe <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	

Group	Command-Mnemonic	New
Gen Funct	SOURce:MCHannel<ch>:SINE:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:TOTal:GAIN <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MULTisine:COUNT <n>	
Gen Funct	SOURce:ONTime <nu>	
Gen Funct	SOURce:ONTime:DELay <nu>	
Gen Funct	SOURce:PHASe<i> <nu> <i> = 1 ... 32 <nu> = 0 ... 360 °	
Gen Funct	SOURce:PLAY:CHANnel MLEFt MRIGHt STEReo	
Gen Funct	SOURce:PLAY:MODE TOCont TOSingle TICont TISingle	
Gen Funct	SOURce:PLAY:MUTing OFF AFTermeas	
Gen Funct	SOURce:PLAY:REStart OFF AUTO ONCE  <a href="#">ONCE is a single action, so the query answer depends of the previous state and is always OFF or AUTO.</a>	
Gen Funct	SOURce:PLAY:SCALepktofs ON OFF	
Gen Funct	SOURce:PLAY:TIME <nu>	
Gen Funct	SOURce:RANDom:FREQUency:LOWer <nu>	
Gen Funct	SOURce:RANDom:FREQUency:UPPer <nu>	
Gen Funct	SOURce:RANDom:SHAPe WHITe PINK TOCTave FILE or ARBitrary	
Gen Funct	SOURce:RANDom:SPACing:FREQUency <nu>	
Gen Funct	SOURce:RANDom:SPACing:MODE ATRack USERdefined	



Group	Command-Mnemonic	New
Gen Funct	SOURce:SCHSettings:CHANnel <n>	
Gen Funct	SOURce:SCHSettings:TTOChannels ON OFF	
Gen Funct	SOURce:SIGChange ON OFF	
Gen Funct	SOURce:SINusoid:DITHer <nu>	
Gen Funct	SOURce:SINusoid:DITHer:STATe ON OFF	
Gen Funct	SOURce:STEReo2:FILTer OFF UFIL1 : CWE	
Gen Funct	SOURce:SWEep:CONTRol OFF ASWeep ALISt	
Gen Funct	SOURce:SWEep:DWELI <nu> 10 ms ... 1000 s	
Gen Funct	SOURce:SWEep:FREQuency:HALT START VALue MUTE	
Gen Funct	SOURce:SWEep:FREQuency:HALT:VALue <nu>	
Gen Funct	SOURce:SWEep:FREQuency:POINts <n>	
Gen Funct	SOURce:SWEep:FREQuency:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEep:FREQuency:START <nu>	
Gen Funct	SOURce:SWEep:FREQuency:STEP <nu>	
Gen Funct	SOURce:SWEep:FREQuency:STOP <nu>	
Gen Funct	SOURce:SWEep:NEXTstep DWELI ASYNc LIST	
Gen Funct	SOURce:SWEep:PHASe:HALT START VALue MUTE	
Gen Funct	SOURce:SWEep:PHASe:HALT:VALue <nu>	
Gen Funct	SOURce:SWEep:PHASe:POINts <n>	

Group	Command-Mnemonic	New
Gen Funct	SOURce:SWEEp:PHASe:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEEp:PHASe:STARt <nu>	
Gen Funct	SOURce:SWEEp:PHASe:STEP <nu>	
Gen Funct	SOURce:SWEEp:PHASe:STOP <nu>	
Gen Funct	SOURce:SWEEp:VOLTage:HALT STARt VALue MUTE	
Gen Funct	SOURce:SWEEp:VOLTage:HALT:VALue <nu>	
Gen Funct	SOURce:SWEEp:VOLTage:POINts <n>	
Gen Funct	SOURce:SWEEp:VOLTage:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEEp:VOLTage:STARt <nu>	
Gen Funct	SOURce:SWEEp:VOLTage:STEP <nu>	
Gen Funct	SOURce:SWEEp:VOLTage:STOP <nu>	
Gen Funct	SOURce:SWEEp:XAXis FREQuency VOLTage PHASe	
Gen Funct	SOURce:SWEEp:ZAXis OFF FREQuency VOLTage PHASe	
Gen Funct	SOURce:VOLTage <nu>	
Gen Funct	SOURce:VOLTage:CH2Stereo <nu>	
Gen Funct	SOURce:VOLTage:CREStfactor:MODE MINimized DPHase	
Gen Funct	SOURce:VOLTage:EQUalize Alias SOURce:VOLTage:STEReo:EQUalize ON OFF	
Gen Funct	SOURce:VOLTage:EQUalize:CHANnels TRACk SPLit	
Gen Funct	SOURce:VOLTage:OFFSet:CHANnels TRACk SPLit	

Group	Command-Mnemonic	New
Gen Funct	SOURce:VOLTage:OFFSet:STATe ON OFF CH1And2 (nur für Stereo Sinus)	
Gen Funct	SOURce:VOLTage:OFFSet<ch> <nu>	
Gen Funct	SOURce:VOLTage:RATio <n>	
Gen Funct	SOURce:VOLTage:SElect VLRT VLVL	
Gen Funct	SOURce:VOLTage:STEReo2:EQUalize ON OFF	
Gen Funct	SOURce:VOLTage:TOTal <nu>	
Gen Funct	SOURce:VOLTage:TOTal:GAIN <nu>	
Gen Funct	SOURce:VOLTage<i> <nu>  <i> = 3 ... 32	
Gen Funct	SOURce:VOLTage<i>:RMS <nu>	
Gen Funct	SOURce:VOLTage2 <nu>	
Gen Proto	SOURce:PROTOcol:AZERo ONCE or EXEC  ONCE or EXEC are not necessary  <a href="#">Query answer always OFF</a>	
Gen Proto	SOURce:PROTOcol:CH<x>:BYTE<y> <n>  <x> and <y> are suffixes <x> = CHannel 1 or 2 <y> = Byte 0 ... 4 <n> = Value 0 ... 255	
Gen Proto	SOURce:PROTOcol:CRC ON OFF	
Gen Proto	SOURce:PROTOcol:FILE 'filename'	
Gen Proto	SOURce:PROTOcol:MODE AUTomatic or AUTOMATIC PROFessional CONSUMER FILE	
Gen Proto	SOURce:PROTOcol:NUMerical:BYTe <n>  <n> = 0 ... 4	
Gen Proto	SOURce:PROTOcol:NUMerical:VALue <n>  <n> = 0 ... 255	
Gen Proto	SOURce:PROTOcol:VALidity NONE CH1And2	

Group	Command-Mnemonic	New
Hardcopy	HCOPY Alias HCOPY:IMMEDIATE	
Hardcopy	HCOPY:DESTINATION PRINTER or PRPCX or PRSPC FILE CLIPBOARD	
Hardcopy	HCOPY:FILE 'name'	
Hardcopy	HCOPY:FILE:MODE NEW OVERWRITE INCREMENT	
Hardcopy	HCOPY:GSIZE "String"  "String" z.B. 800x600	
Hardcopy	HCOPY:PRINTER:ADDITION OFF ON	
Hardcopy	HCOPY:PRINTER:FOOTER 'text'	
Hardcopy	HCOPY:PRINTER:HEADER 'text'	
Hardcopy	HCOPY:PRINTER:ORIENTATION PORTRAIT LANDSCAPE	
Hardcopy	HCOPY:SOURCE WINDOW GRAPHICS	
Load Setup	MMEMORY:LOAD:STATE "filename"	
Load Trc	FORMAT REAL ASCII	
Load Trc	TRACE:Subsys<i></i>:LDLIST:AX? TRACE:Subsys<i></i>:LDLIST:AY? TRACE:Subsys<i></i>:LDLIST:BX? TRACE:Subsys<i></i>:LDLIST:BY?  Query only	
Load Trc	TRACE:Subsys<i></i>:LDLIST:COUNT:AX? TRACE:Subsys<i></i>:LDLIST:COUNT:AY? TRACE:Subsys<i></i>:LDLIST:COUNT:BX? TRACE:Subsys<i></i>:LDLIST:COUNT:BY?  Query only	
Load Trc	TRACE:Subsys<i></i>:LOAD:AX? TRACE:Subsys<i></i>:LOAD:AY? TRACE:Subsys<i></i>:LOAD:BX? TRACE:Subsys<i></i>:LOAD:BY?  Query only	

Group	Command-Mnemonic	New
Load Trc	TRACe:Subsys<i>:LOAD:COUNT:AX? TRACe:Subsys<i>:LOAD:COUNT:AY? TRACe:Subsys<i>:LOAD:COUNT:BX? TRACe:Subsys<i>:LOAD:COUNT:BY?  Query only	
Special	DATA:Subsys:COUNT:X? DATA:Subsys:COUNT:Y<ch>?  Query only:  <ch> = 1 ... 16 Subsys = SWEep or BARGraph or FFT Subsys without window specification!	
Special	DATA:Subsys:X? DATA:Subsys:Y<ch>?  Query only:  <ch> = 1 ... 16 Subsys = SWEep or BARGraph or FFT Subsys without window specification!	
Special	INITiate  No query	
Special	INITiate:CONTInuous ON OFF WAIT RStart	
Special	INITiate:CONTInuous:TIMEout <nu>  <nu> 0 ... 1000s 0s is the same as INIT:CONT ON	
Special	INITiate:FORCe START STOP SINGle CONTInuous  Alias ABORt is the same as SCPI command INITiate:FORCe STOP  No query	
Special	OUTPut ON OFF	

Group	Command-Mnemonic	New
Special	<p> STATus:OPERation?  Alias  STATus:OPERation:EVENT? </p> <p> STATus:OPERation:CONDition?  STATus:OPERation:ENABLE &lt;n&gt;  STATus:OPERation:PTRansition &lt;n&gt;  STATus:OPERation:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable?  Alias  STATus:QUEStionable:EVENT? </p> <p> STATus:QUEStionable:CONDition?  STATus:QUEStionable:ENABLE &lt;n&gt;  STATus:QUEStionable:PTRansition &lt;n&gt;  STATus:QUEStionable:NTRansition &lt;n&gt; </p> <p> STATus:XQUEstionabl?  Alias  STATus:XQUEstionabl:EVENT? </p> <p> STATus:XQUEstionabl:CONDition?  STATus:XQUEstionabl:ENABLE &lt;n&gt;  STATus:XQUEstionabl:PTRansition &lt;n&gt;  STATus:XQUEstionabl:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:MEASuring?  Alias  STATus:QUEStionable:MEASuring:EVENT? </p> <p> STATus:QUEStionable:MEASuring:CONDition?  STATus:QUEStionable:MEASuring:ENABLE &lt;n&gt;  STATus:QUEStionable:MEASuring:PTRansition &lt;n&gt;  STATus:QUEStionable:MEASuring:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:OVERrange?  Alias  STATus:QUEStionable:OVERrange:EVENT? </p> <p> STATus:QUEStionable:OVERrange:CONDition?  STATus:QUEStionable:OVERrange:ENABLE &lt;n&gt;  STATus:QUEStionable:OVERrange:PTRansition &lt;n&gt;  STATus:QUEStionable:OVERrange:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:UNDerrange?  Alias  STATus:QUEStionable:UNDerrange:EVENT? </p> <p> STATus:QUEStionable:UNDerrange:CONDition?  STATus:QUEStionable:UNDerrange:ENABLE &lt;n&gt;  STATus:QUEStionable:UNDerrange:PTRansition &lt;n&gt;  STATus:QUEStionable:UNDerrange:NTRansition &lt;n&gt; </p> <p> UNDerrange Alias UNDERrange  &lt;n&gt; = Unsigned Integer 0 ... 65535 </p>	

Group	Command-Mnemonic	New
Special	STATus:PRESet	
Special	STATus:QUEue[:NEXT]?	
Special	SYSTem:DISPlay:EXPLAnation<i>:HIDE  <i> = 1...10  No query	
Special	SYSTem:DISPlay:EXPLAnation<i>:SHOW 'String'  String = 'x=0,y=10,w=200,h=100'  <i> = 1...10  No query	
Special	SYSTem:DISPlay:EXPLAnation<i>:TEXT “<RTF-Text>”  <i> = 1...10  No query	
Special	SYSTem:MEMory:DATA<i> <n,n,n,...,n> or SYSTem:MEMory:DATA<i> #<LengthofLength><Length><Binary data as float>  <i> = 1 ... 1024 because of Chirp based Measurement	
Special	SYSTem:MEMory:FREE STRing DATA  No query	
Special	SYSTem:MEMory:STRing<i> 'String' <i> = 1 ... 1024  Stringlength max. 540 Byte	
Special	SYSTem:PROGramm:EXECute 'xxx.exe'	
Special	SYSTem:SHUtdown SYSTem:SHUtdown <nu>  No query	
Special	SYSTem:SINFo 'String'	
Special	SYSTem:SINFo:MAC?	
Special	SYSTem:VERsion?  Query only Answer always 1999.0	
Store Setup	MMEory:STORe:STATe "filename"	

Group	Command-Mnemonic	New
Store Trc	MMEMory:Subsys<i>:EQUalization:INVert ON OFF  Subsys = SWEep or FFT	
Store Trc	MMEMory:Subsys<i>:EQUalization:MODify ON OFF	
Store Trc	MMEMory:Subsys<i>:EQUalization:NORMfrequency <nu>	
Store Trc	MMEMory:Subsys<i>:LIMit:OFFSet OFF ON	
Store Trc	MMEMory:Subsys<i>:STAS TRCList EQUList SWPList LLISt DSElect	
Store Trc	MMEMory:Subsys<i>:STORE "filename.trc"	
Store Trc	MMEMory:Subsys<i>:TRACe A B	
Store Trc	TRACe:SWE<i>:STORE:AX <n,n,n,n> TRACe:Subsys<i>:STORE:AY <n,n,n,n> TRACe:SWE<i>:STORE:BX <n,n,n,n> TRACe:Subsys<i>:STORE:BY <n,n,n,n>  May be a set of ASCII data <n,n, ..... ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as float> AX and BX only for SWEep Subsystem! To manipulate a sweep axis, it is strictly recommended to set the X-Source to "Manual"  <a href="#">No Query</a> <a href="#">Query replacement is the command</a> <a href="#">TRACe:Subsys&lt;i&gt;:LOAD:AX AY BX BY?</a>	
Switcher	SWITcher:COMPort COM3 COM4 COM5 COM6 AUTO	
Switcher	SWITcher:INPA <n>	
Switcher	SWITcher:INPB <n>	
Switcher	SWITcher:OFFSet:BVSA <n>	
Switcher	SWITcher:OFFSet:OVSI <n>	
Switcher	SWITcher:OUTA <n>	
Switcher	SWITcher:OUTB <n>	



Group	Command-Mnemonic	New
Switcher	SWITcher:STATe ON OFF	
Switcher	SWITcher:TRACking OFF BVSA or CH2V OVSI or OVI ALL	
Trigger	AUXiliaries:TRIGger:OUTPut:DELay <nu>	
Trigger	AUXiliaries:TRIGger:OUTPut:ENable ON OFF	
Trigger	AUXiliaries:TRIGger:OUTPut:MODE CASCade GENSync	

## Alphabetical sorted List of Remote Control Commands

Group	Command-Mnemonic	New
Anl Config	ARM:FREQuency:STARt <nu>	
Anl Config	ARM:FREQuency:STOP <nu>	
Anl Config	ARM:LEVel:MIN <nu>	
Anl Config	ARM:VOLTagE:STARt <nu>	
Anl Config	ARM:VOLTagE:STOP <nu>	
Aud Mon	AUXiliaries:AUDMonitor ON OFF	
Aud Mon	AUXiliaries:SIGSource TRACK SPLIT	
Aud Mon	AUXiliaries:SPEaker:MONitor<ch> OFF CH1 CH2 : Ch8  ch = 1   2	
Aud Mon	AUXiliaries:SPEaker:SOURce<ch> INPut FUNctioN DC  <ch> = 1   2	
Aud Mon	AUXiliaries:SPEaker:VOLume<ch> <n>  <ch> = 1   2 <n> 0 ... -120	
Trigger	AUXiliaries:TRIGger:OUTPut:DELay <nu>	
Trigger	AUXiliaries:TRIGger:OUTPut:ENABle ON OFF	
Trigger	AUXiliaries:TRIGger:OUTPut:MODE CASCade GENSync	
Aud Mon	AUXiliaries:VOLTagE<ch> <nu>  ch = 1   2	
Special	DATA:Subsys:COUNt:X? DATA:Subsys:COUNt:Y<ch>?  <b>Query only:</b>  <ch> = 1 ... 16 Subsys = SWEep or BARGraph or FFT Subsys without window specification!	

Group	Command-Mnemonic	New
Special	DATA:Subsys:X? DATA:Subsys:Y<ch>?  Query only:  <ch> = 1 ... 16 Subsys = SWEep or BARGraph or FFT Subsys without window specification!	
Adjust	DIAGnostic:ADJustment AAGEn or CAGEn AANLr0 or CANLr0 ADGEn	
Adjust	DIAGnostic:ADJustment:ADDRess <n>	
Adjust	DIAGnostic:ADJustment:FDATa <n>	
Diagnostic	DIAGnostic:PASSword "Password"  The password is not disclosed here! The query answer is 'Passwrld ok', not the actual password.	
Display	DISPlay:SCReen <n> <n> = 1...5	
Display	DISPlay:Subsys:COPIother:CFG 'String'  Not for subsystem WAVeform. This command is allowed only for the first window of a subsystem, otherwise error message. Valid keywords in 'String': SCAN Y-SOURCE Y-LABEL Y-UNIT REFERENCE Y-SCALE LIMIT X-SOURCE X-AXIS LEGEND STORE TRACE  Example: "Y-UNIT,LIMIT,Y-LABEL,Y-SOURCE"	
Display	DISPlay:Subsys<i>:A B:BOTTom <nu>	
Display	DISPlay:Subsys<i>:A B:CHANnel CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i>:A B:LABel:AUTO ON OFF	
Display	DISPlay:Subsys<i>:A B:LABel:USER 'string'	
Display	DISPlay:Subsys<i>:A B:LEGend:DESCRiption "String"	
Display	DISPlay:Subsys<i>:A B:LEGend:SHOW ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMLower ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMLower:SOURce VALue HOLD FILE IFILe	
Display	DISPlay:Subsys<i>:A B:LIMLower:SOURce:FILE 'filename'	
Display	DISPlay:Subsys<i>:A B:LIMLower:SOURce:VALue <nu>	
Display	DISPlay:Subsys<i>:A B:LIMShift ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMShift:PARAllel <nu>	
Display	DISPlay:Subsys<i>:A B:LIMShift:SYMMetrical <nu>	
Display	DISPlay:Subsys<i>:A B:LIMUpper ON OFF	
Display	DISPlay:Subsys<i>:A B:LIMUpper:SOURce VALue HOLD FILE IFILe	
Display	DISPlay:Subsys<i>:A B:LIMUpper:SOURce:FILE 'filename'	
Display	DISPlay:Subsys<i>:A B:LIMUpper:SOURce:VALue <nu>	
Display	DISPlay:Subsys<i>:A B:MARKer:HARMOnics ON OFF	
Display	DISPlay:Subsys<i>:A B:MARKer:MODE OFF FIXed TRKMax	
Display	DISPlay:Subsys<i>:A B:MARKer:SETTo:OCURsor ONCE or EXEC DISPlay:Subsys<i>:A B:MARKer:SETTo:XCURsor ONCE or EXEC  ONCE or EXEC are not necessary  <a href="#">No query</a>	
Display	DISPlay:Subsys<i>:A B:MARKer:SETTo:XPOS <nu>	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:A B:NORMalize OFF VALue OCURsor XCURsor  All subsystems except WAVeform	
Display	DISPlay:Subsys<i><i>:A B:NORMalize:VALue <nu>  All subsystems except WAVeform	
Display	DISPlay:Subsys<i><i>:A B:REFerence MEASpanel VALue MAXimum XCURsor OCURsor REF997 REF1000 CH1Meas CH2Meas GENTrack FILE HOLD IFILe NOISedensity DBNOisedensity MREFchannel	
Display	DISPlay:Subsys<i><i>:A B:REFerence:FILE 'filename'	
Display	DISPlay:Subsys<i><i>:A B:REFerence:VALue <nu>	
Display	DISPlay:Subsys<i><i>:A B:SPACing LINear LOGarithmic	
Display	DISPlay:Subsys<i><i>:A B:TOP <nu>	
Display	DISPlay:Subsys<i><i>:A B:UNIT V DBV DBU :	
Display	DISPlay:Subsys<i><i>:A B:UNIT:AUTO ON OFF	
Display	DISPlay:Subsys<i><i>:A B:UNIT:TRACK ON OFF	
Display	DISPlay:Subsys<i><i>:A B:UNIT:USER 'string'	
Display	DISPlay:Subsys<i><i>:A B:UPDate ALIVE HOLD	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i>:A B:YSource  <b>SWEEp 2-kanalig:</b> OFF   FUNC1   FUNC2   FREQ1   FREQ2   PHASe   GROUpdelay   LMRM1   LMRM2   LMDC1   LMDC2   LMPK1   LMPK2   INPP1   INPP2   FILEA   FILEB  <b>SWEEp 8-kanalig:</b> OFF   FUNcTion   FREQuency   PHASe   GROUpdelay   LMRMs   LMDC   LMPK   INPPeak   FILEA   FILEB  <b>FFT 2-kanalig:</b> OFF   FFTL1   FFTL2   FFTP1   FFTP2   FILEA   FILEB   FFTP21  <b>FFT 8-kanalig:</b> FFTLevel   FFTPhase   FFTRefchphase   FILEA   FILEB  <b>WAVEform 2-kanalig:</b> OFF   LEV1   LEV2   FILEA   FILEB  <b>WAVEform 8-kanalig:</b> OFF   LEVeI   FILEA   FILEB  <b>BARGraph 2-kanalig:</b> OFF   FUNC1   FUNC2   FILEA   FILEB  <b>BARGraph 8-kanalig:</b> OFF   FUNcTion   FILEA   FILEB	
Display	DISPlay:Subsys<i>:A B:YSource:FILE 'filename'	
Display	DISPlay:Subsys<i>:DLISt:FILTer ALL LIMUpper LIMLower LIMBoth HARMonics PEAKs	
Display	DISPlay:Subsys<i>:MCHMode ON OFF  Subsys = SWEEp or FFT or WAV or BARG	
Display	DISPlay:Subsys<i>:MINMax ON OFF  Subsys = SWEEp or FFT or BARGraph	
Display	DISPlay:Subsys<i>:OCURsor:MODE VA VB VAB HA HB	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:OCURsor:POSMode PIXel POINT PEAK HARMonic	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MAX ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MAX ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MIN ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MIN ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MRKA ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MRKA ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:MRKB ONCE or EXEC DISPlay:Subsys<i><i>:XCURsor:SETTo:MRKB ONCE or EXEC  ONCE or EXEC are not necessary  No query	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:XPOS <nu>	
Display	DISPlay:Subsys<i><i>:OCURsor:SETTo:YPOS <nu>  For horizontal cursor only	
Display	DISPlay:Subsys<i><i>:OCURsor:STATe OFF ACTive INACTive	
Display	DISPlay:Subsys<i><i>:OCURsor:Y?  Query only	

Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i>:SCANoffset <n> <i> = 1, 2, 3, 4 <n> = -19 -18 : 0 1 (MIN) 2 (MAX)  Query and command logging show the numerical value 2 for MAX and 1 for MIN	
Display	DISPlay:Subsys<i>:TITLE:DESCRiption "String"	
Display	DISPlay:Subsys<i>:TITLE:SHOW ON OFF	
Display	DISPlay:Subsys<i>:TRACk:LIMit ON OFF	
Display	DISPlay:Subsys<i>:TRACk:REFerence ON OFF	
Display	DISPlay:Subsys<i>:TRACk:SCALing ON OFF	
Display	DISPlay:Subsys<i>:X:LABel:AUTO ON OFF	
Display	DISPlay:Subsys<i>:X:LABel:USER 'string'	
Display	DISPlay:Subsys<i>:X:LEFT <nu>	
Display	DISPlay:Subsys<i>:X:REFerence:VALue <nu>	
Display	DISPlay:Subsys<i>:X:RIGHt <nu>	
Display	DISPlay:Subsys<i>:X:SCALing AUTO MANual	
Display	DISPlay:Subsys<i>:X:SPACing LINear LOGarithmic	
Display	DISPlay:Subsys<i>:X:UNIT HZ DHZ :	
Display	DISPlay:Subsys<i>:X:UNIT:AUTO ON OFF	
Display	DISPlay:Subsys<i>:X:UNIT:USER 'string'	



Group	Command-Mnemonic	New
Display	DISPlay:Subsys<i><i>:XCURsor:MODE VA VB VAB HA HB	
Display	DISPlay:Subsys<i><i>:XCURsor:POSMode PIXel POINT PEAK HARMonic	
Display	DISPlay:Subsys<i><i>:XCURsor:SETTo:XPOS <nu>	
Display	DISPlay:Subsys<i><i>:XCURsor:SETTO:YPOS <nu>  Horizontal cursor only	
Display	DISPlay:Subsys<i><i>:XCURsor:STATe OFF ACTive INACTive	
Display	DISPlay:Subsys<i><i>:XCURsor:Y?  <a href="#">Query only</a>	
Display	DISPlay:SWEep<i><i>:HISTory <n>  <n> = 2 ... 20  Subsystem SWEep only	
Display	DISPlay:SWEep<i><i>:SMODE SINGlescan MULTiscan  Subsystem SWEep only	
Display	DISPlay:SWEep<i><i>:X:AXIS TIME VOLTage FREQuency PHASe VDIGital	
Display	DISPlay:SWEep<i><i>:X:SOURce SWEep HOLD MANual LRMS LDC LPEak FREQuency	
Load Trc	FORMat REAL ASCii	
Hardcopy	HCOPy Alias HCOPy:IMMEDIATE	

Group	Command-Mnemonic	New
Hardcopy	HCOPy:DESTination PRINter or PRPCx or PRSPc FILE CLIPboard	
Hardcopy	HCOPy:FILE 'name'	
Hardcopy	HCOPy:FILE:MODE NEW OVERwrite INCRement	
Hardcopy	HCOPy:GSIZe "'String"  "String" z.B. 800x600	
Hardcopy	HCOPy:PRINter:ADDition OFF ON	
Hardcopy	HCOPy:PRINter:FOOTer 'text'	
Hardcopy	HCOPy:PRINter:HEADer 'text'	
Hardcopy	HCOPy:PRINter:ORientation PORTrait LANDscape	
Hardcopy	HCOPy:SOURce WINDow GRAPhics	
Special	INITiate  <a href="#">No query</a>	
Special	INITiate:CONTInuous ON OFF WAIT RSTart	
Special	INITiate:CONTInuous:TIMeout <nu>  <nu> 0 ... 1000s 0s is the same as INIT:CONT ON	
Special	INITiate:FORCe START STOP SINGle CONTInuous  Alias ABORT is the same as SCPI command INITiate:FORCe STOP  <a href="#">No query</a>	
Anl Config	INPut:AUDIobits <n>  n = 8 ... 24	

Group	Command-Mnemonic	New
Anl Config	INPut:Bandwidth:MODE B22 B40 B80	
Anl Config	INPut:BCLK:FREQuency?  Query only	
Anl Config	INPut:CHANnel CH1 CH2 BOTH MULTi	
Anl Config	INPut:COUPling:CHANnels TRACk SPLit	
Anl Config	INPut:FBIT MSB LSB	
Anl Config	INPut:FILTer OFF UFIL1...9 AWE CCIR CARM CCIU CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT PEMP17 PEMP5015 PEMP50 PEMP75 URUM WRUM HP22 HP400 LP22 LP30 LP80 AES17 CWE	
Anl Config	INPut:FORMat SI2S USERdefined	
Anl Config	INPut:FSLope LFTFalling LFTRising	

Group	Command-Mnemonic	New
Anl Config	INPut:MCChannels<ch> ON OFF  Digital Instrument: <ch> = 1 ... 2  Analog Instrument: <ch> = 1 ... 8	
Anl Config	INPut:MIMPedance:CHANnels TRACk SPLit	
Anl Config	INPut:MIMPedance<ch> R200K R600  <ch> = 1 ... 8  Only for devices greater serial number 120100, 140100, 180100	
Anl Config	INPut:RANGe:CHANnels TRACk SPLit	
Anl Config	INPut:SAMPlE:FREQuency <nu>	
Anl Config	INPut:SAMPlE:FREQuency:MODE For analyzer instrument DIGITAL: AUTO F32 F44 F48 F88 F96 F176 F192 VALue  For analyzer instrument I2SBOARD: AUTO F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 VALue	
Anl Config	INPut:WLENgth W16 W24 W32	
Anl Config	INPut:WOffset <n>	

Group	Command-Mnemonic	New
Anl Config	INPut<ch>:COUPling AC DC  <ch> = 1 ... 8	
Gen Config	INSTRument Alias INSTRument:SElect ANLG or A25 DIG or D48 I2Sboard or I2S HDMI  Alias INSTRument:NSElect 1   2   3   4 1 = ANLG 2 or 3 = DIG 4 = I2Sboard 11 = HDMI	
Anl Config	INSTRument2  ANLG ist Alias zu A8CHannel DIG or D48 I2Sboard or I2S HDMI  Alias  INSTRument2:NSElect 1   2   3   4   8 1 ist Alias zu A8CHannel 2 or 3 = DIG 4 = I2Sboard 8 = A8Channel 11 = HDMI	
Gen Funct	MMEMory:LOAD:ARBitrary 'filename'	
Gen Funct	MMEMory:LOAD:DWELI 'filename'	
Gen Funct	MMEMory:LOAD:FREQUency 'file'	
Anl Funct	MMEMory:LOAD:FREQUency:SLCFrequency 'filename'	
Anl Funct	MMEMory:LOAD:IEQualize 'filename'	
Gen Funct	MMEMory:LOAD:MCHannel<ch>:SINE:ARBitrary 'filename'	
Gen Funct	MMEMory:LOAD:MCHannel<ch>:SINE:EQUalize 'filename'	
Gen Funct	MMEMory:LOAD:OEQualize 'filename'	
Gen Funct	MMEMory:LOAD:PHASe 'filename'	
Load Setup	MMEMory:LOAD:STATe "filename"	
Gen Funct	MMEMory:LOAD:STEReo2:OEQualize 'filename'	
Gen Funct	MMEMory:LOAD:VOLTage 'filename'	
Store Setup	MMEMory:STORE:STATe "filename"	

Group	Command-Mnemonic	New
Store Trc	MMEMory:Subsys<i>:EQUalization:INVert ON OFF  Subsys = SWEep or FFT	
Store Trc	MMEMory:Subsys<i>:EQUalization:MODify ON OFF	
Store Trc	MMEMory:Subsys<i>:EQUalization:NORMfrequency <nu>	
Store Trc	MMEMory:Subsys<i>:LIMit:OFFSet OFF ON	
Display	MMEMory:Subsys<i>:LIMit:OFFSet:VALue <nu>	
Store Trc	MMEMory:Subsys<i>:STAS TRCList EQUList SWPList LLISt DSElect	
Store Trc	MMEMory:Subsys<i>:STORE "filename.trc"	
Store Trc	MMEMory:Subsys<i>:TRACe A B	
Gen Config	OUTPut ON OFF	
Special	OUTPut ON OFF	
Gen Config	OUTPut:AUDIobits <n>	
Gen Config	OUTPut:BANDwidth:MODE B22 B40 B80 AUTO	
Gen Config	OUTPut:BCLK:FREQuency?  <a href="#">Query only</a>	
Gen Config	OUTPut:CHANnel OFF CH1 CH2 CH2Is1 MULTi	
Gen Config	OUTPut:FBIT MSB LSB	
Gen Config	OUTPut:FORMat SI2S USERdefined	

Group	Command-Mnemonic	New
Gen Config	OUTPut:FSHape SQUpuls BITPulse	
Gen Config	OUTPut:FSYNc:FREQuency?  Query only	
Gen Config	OUTPut:IMPedance R25 R600  Only for devices greater serial number 120100, 140100, 180100	
Gen Config	OUTPut:IMPedance:UNBalanced?  Query only Answer always 25 Ohm	
Gen Config	OUTPut:MCHannels<ch> ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Config	OUTPut:MCLKratio M64 M96 M128 M192 M256 M384 M512	
Gen Config	OUTPut:POLarity  For OUTP:FPU SQU OUTPut:POLarity LFTLow LFTHigh  For OUTP:FPU BITP OUTPut:POLarity NEGative POSitive	
Gen Config	OUTPut:RESYnc ONCE   EXEC (can be omitted)	
Gen Config	OUTPut:SAMPlE:FREQuency <nu>	

Group	Command-Mnemonic	New
Gen Config	OUTPut:SAMPlE:MODE  For generator instrument DIGITAL: F32 F44 F48 F88 F96 F176 F192 SYNChron VALue  For generator instrument I2SBOARD: F08 F11 F16 F22 F32 F44 F48 F88 F96 F176 F192 F384 VALue	
Gen Config	OUTPut:SIGNal:BALanced:LEVel <nu>	
Gen Config	OUTPut:SIGNal:LEVel <nu>	
Gen Config	OUTPut:TYPE BALanced UNBalanced	
Gen Config	OUTPut:WLENgth W16 W24 W32	
Gen Config	OUTPut:WOffset <n>  If (OUTPut:WRDLength == 16) <n> = -16 ... 15 If (OUTPut:WRDLength == 24) <n> = -24 ... 23 If (OUTPut:WRDLength == 32) <n> = -32 ... 31	
Anl Funct	SENSE:Bandwidth <nu>	



Group	Command-Mnemonic	New
Anl Funct	SENSe:BANDwidth:MODE PPCT1 PPCT3 POCT12 PTOC PFAS PFIx SPCT1 SPCT3 SOCT12 STOC SFAS SFIx	
Anl Funct	SENSe:CHANnel:DELAy <nu>	
Anl Funct	SENSe:CHIRpbased:DISToRtion<i>:SWEep<n>:A   B ON OFF  <i>: 2 ... 9 <n>: 1 ... 4	
Anl Funct	SENSe:CHIRpbased:MMODE:SWEep<n>:A   B FRQResponse PHAResponse THDLevel THD  <n>: 1 ... 4	
Anl Funct	SENSe:CHIRpbased:POINts?  <a href="#">Query only</a>	
Anl Funct	SENSe:CHIRpbased:RESolution?  <a href="#">Query only</a>	
Anl Config	SENSe:CMPIFactor <n>  <n> = 2 ... 1024	
Display	SENSe:CONFIg:COPIOther ONCE or EXEC  ONCE or EXEC are not necessary	
Anl Config	SENSe:DATA:ALL? SENSe:DATA:ALL? MIN SENSe:DATA:ALL? MAX  <a href="#">Query only</a>	
Anl Funct	SENSe:DATA<ch>?  <ch> = 1 ... 8	

Group	Command-Mnemonic	New
Anl Funct	SENSE:FILTer<i> OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DEMP17 DEMP5015 DEMP50 DEMP75 DCN IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE  <i> = 1, 2	
Anl Funct	SENSE:FREQuency <nu>	
Anl Funct	SENSE:FREQuency:FACTor <nu>	
Anl Funct	SENSE:FREQuency:LIMit ON OFF	
Anl Funct	SENSE:FREQuency:LIMit:LOWer <nu>	
Anl Funct	SENSE:FREQuency:LIMit:UPPer <nu>	

Group	Command-Mnemonic	New
Anl Funct	SENSE:FREQUENCY:SElect CW or FIXed GENTrack CH1Freq Alias CH1 CH2Freq Alias CH2 AUToboth or AUTOboth  Multichannel: SENSE:FREQUENCY:SElect CW or FIXed GENTrack REFFrequency AUToboth or AUTOboth	
Anl Funct	SENSE:FUNCTION OFF RMS RMSSelect PEAK SN FFT THD THDNsndr MDISt DFD POLarity NOCTave LIPSync BERT CHIRpbased	
Anl Funct	SENSE:FUNCTION:APERture:MODE  For analyzer function RMS AFASt AUTO GENTrack VALue  For analyzer function S/N in MeasMode Pos Peak, Neg Peak, Pk to Pk and Abs Peak FAST SFASt SLOW  For analyzer function THD+N/SINAD WIDE MEDium NARRow	
Anl Funct	SENSE:FUNCTION:BARGraph ON OFF	
Anl Funct	SENSE:FUNCTION:DCSuppression ON OFF	

Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:DElAy:MODE MANual AUTO	
Anl Funct	SENSe:FUNcTion:DElAy:VALue <nu>	
Anl Funct	SENSe:FUNcTion:DISToRtion<i> ON OFF  <i> = 2 ... 9 describes harmonics	
Anl Funct	SENSe:FUNcTion:DMAx <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:DMIN <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:FFT:AVErAge <n> 1 ... 10000	
Anl Funct	SENSe:FUNcTion:FFT:AVErAge:MODE OFF NORMal EXPOntial	
Anl Funct	SENSe:FUNcTion:FFT:MODE STANdard GAPLess OVerlapping	
Anl Funct	SENSe:FUNcTion:FFT:MTIME?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:OVLFactor <nu>  <nu>: 0 ... 50 PCT	
Anl Funct	SENSe:FUNcTion:FFT:RESolution?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:Size S512 S1K S2K S4K S8K S16K S32K S64K S128K S256K	
Anl Funct	SENSe:FUNcTion:FFT:STARt?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:STATe ON OFF	

Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:FFT:STOP?  Query only	
Anl Funct	SENSe:FUNcTion:FFT:TRIGgered ON OFF	
Anl Funct	SENSe:FUNcTion:FFT:WINDow RECTangular HANN BLACkman_harris RIF1 RIF2 RIF3 HAMMing FLATtop	
Anl Funct	SENSe:FUNcTion:MMODE  <b>Peak:</b> PPEak NPEak PTOPeak PABSolut  <b>SN:</b> RMS PPEak NPEak PTOPeak PABSolut  <b>THD:</b> SElectdi LSElectdi DALL LDALI DODD LDODd DEVen LDEVen DMM LDMM  <b>DFD:</b> D2_268 or D2 D3_268 or D3 D2_118 D3_118  <b>THD+N:</b> THDN LTHDn SNDRatio Alias SINad NOISe LNOise  <b>NOCTave:</b> OCT1 OCT3 OCT6 OCT12 OCT24 CBANd	(new)
Anl Funct	SENSe:FUNcTion:REFNment N1 N2 N4 N8	
Anl Funct	SENSe:FUNcTion:REFTo TRGIn REFCh	
Anl Funct	SENSe:FUNcTion:SETTling:COUNT <n>	

Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:SETTling:MODE OFF EXPOnential FLAT AVERAge	
Anl Funct	SENSe:FUNcTion:SETTling:RESolution <nu>	
Anl Funct	SENSe:FUNcTion:SETTling:TOLerance <nu> PCT	
Anl Funct	SENSe:FUNcTion:SETTling:TOUT <nu>	
Anl Funct	SENSe:FUNcTion:SNSequence ON OFF	
Anl Config	SENSe:HDMI:ARCPort HDMI1 HDMI2 HDMI3 HDMI4 HDMI5 HDMI6	
Anl Config	SENSe:HDMI:AUDio:CODing PCM AUTodetect	
Anl Config	SENSe:HDMI:AUDio:CODing:DETEcted:STRing?  Query only	
Anl Config	SENSe:HDMI:AUDio:CTS <n>	
Anl Config	SENSe:HDMI:AUDio:FORMat:MODE AUTO MANUAl	
Anl Config	SENSe:HDMI:AUDio:FORMat? PCM2ch PCM8ch DBD DBDP DBTHd DTS DTSHd DTSMaster	
Anl Config	SENSe:HDMI:AUDio:INFoframe:STRing <String>	
Anl Config	SENSe:HDMI:AUDio:INPut SINK SARC DIUnbal DIOptical	
Anl Config	SENSe:HDMI:AUDio:N <n>	
Anl Config	SENSe:HDMI:AVI:STRing <String>	
Anl Config	SENSe:HDMI:CEC:HANDshake ON OFF	
Anl Config	SENSe:HDMI:CEC:INIT ONCE   EXEC (can be omitted)	

Group	Command-Mnemonic	New
Anl Config	SENSe:HDmI:EEId:STRing <String>	
Anl Config	SENSe:HDmI:MPEG:INFOframe:STRing <String>  Query only	
Anl Config	SENSe:HDmI:NTSC:INFOframe:STRing <String>  Query only	
Anl Config	SENSe:HDmI:SPD:STRing <String>	
Anl Config	SENSe:HDmI:VENdOr:INFOframe:STRing <String>  Query only	
Gen Config	SENSe:HDmI:VIDeo:COLor:DEPTH D08 D10 D12	
Anl Config	SENSe:HDmI:VIDeo:FORMat <string>	
Anl Config	SENSe:HDmI:VIDeo:TIMing ON OFF	
Anl Config	SENSe:HDmI:VIDeo:TIMing:STRing <String>	
Anl Funct	SENSe:LIPSync:AUDio:THREshold:HIGH <nu>	
Anl Funct	SENSe:LIPSync:AUDio:THREshold:LOW <nu>	
Anl Funct	SENSe:LIPSync:COLor:THREshold:HIGH:STRing <string>  <string> z.B. '(255,255,255)'	
Anl Funct	SENSe:LIPSync:COLor:THREshold:LOW:STRing <string>  <string> z.B. '(255,255,255)'	
Anl Config	SENSe:POWEr:REFerence:RESistance <nu>	
Anl Config	SENSe:REFerence <nu>	
Anl Config	SENSe:REFerence:CHANnel OFF CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	

Group	Command-Mnemonic	New
Anl Config	SENSE:REFERENCE:MODE Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: SENSE:REFERENCE:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSE:REFERENCE:MODE2 Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: SENSE:REFERENCE:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSE:REFERENCE2 <nu>	
Anl Funct	SENSE:SWEep:CONTRol OFF ASWeep ALISt	
Anl Funct	SENSE:SWEep:POINts <n>	



Group	Command-Mnemonic	New
Anl Funct	SENSE:SWEEP:SPACING LINSteps LOGSteps LINPoints LOGPoints	
Anl Funct	SENSE:SWEEP:START <nu>	
Anl Funct	SENSE:SWEEP:STEP <nu>	
Anl Funct	SENSE:SWEEP:STOP <nu>	
Anl Funct	SENSE:THDN:REJECTION NARROW WIDE	
Anl Config	SENSE:TRIGGER:SETTLING:COUNT <n>	
Anl Config	SENSE:TRIGGER:SETTLING:MODE OFF EXPONENTIAL FLAT	
Anl Config	SENSE:TRIGGER:SETTLING:RESOLUTION <nu>	
Anl Config	SENSE:TRIGGER:SETTLING:TOLERANCE <nu> PCT	
Filter	SENSE:UFILTER<i> HPASS LPASS BPASS BSTOP   BSTOP NOTCH TOCTAVE OCTAVE FILE  <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:ATTENUATION <nu> <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:CENTER <nu> <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:DELAY <nu> <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:FILENAME 'filename' <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:ORDER N4 N8 <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:PASSB <nu> <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:PASSB:LOWER <nu> <i> = 1 ... 9	
Filter	SENSE:UFILTER<i>:PASSB:UPPER <nu> <i> = 1 ... 9	

Group	Command-Mnemonic	New
Filter	SENSE:UFILter<i>:STOPb:LOWer? <i> = 1 ... 9  Query only	
Filter	SENSE:UFILter<i>:STOPb:UPPer? <i> = 1 ... 9  Query only	
Filter	SENSE:UFILter<i>:STOPb? <i> = 1 ... 9  Query only	
Filter	SENSE:UFILter<i>:WIDTh <nu> <i> = 1 ... 9	
Anl Funct	SENSE:UNAuto ON OFF	
Anl Funct	SENSE:UNAuto2 ON OFF	
Anl Funct	SENSE:UNIT V DBV DBR FS :	
Anl Funct	SENSE:UNIT2 V DBV DBR FS :	
Anl Funct	SENSE:USERunit 'Unitstring'	
Anl Funct	SENSE:USERunit2 'Unitstring'	
Anl Funct	SENSE:VOLTage:APERture <nu>	
Anl Funct	SENSE:VOLTage:EQUalize ON OFF	
Anl Funct	SENSE:VOLTage:FUNDamental <nu>	
Anl Funct	SENSE:VOLTage:FUNDamental:MODE AUTO VALue GENTrack	
Anl Funct	SENSE:VOLTage:INTVtime <nu>	

Group	Command-Mnemonic	New
Anl Funct	SENSe:VOLTage:INTVtime:MODE SFASt (for Peak measurement only) FAST (for Peak measurement only) SLOW (for Peak measurement only) FIXed or FIX3 (for QuasiPeak only) VALue (for Peak and QuasiPeak)	
Anl Config	SENSe:VOLTage:RANGe<ch>:MODE AUTO FIX LOWER  <ch> = 1 ... 8	
Anl Config	SENSe:VOLTage:RANGe<ch>:VALue <nu>  <ch> = 1 ... 16  <nu>: Range 200 mV: 0.2 Range 800 mV: 0.8 Range 3 V: 3 Range 12 V: 12 Range 50 V: 50  Query: The query answer is the nominal value of the range in volt without unit: Exceptionally the using of the query form "SENS:VOLT:RANG<i>:VALue? MIN or MAX" is not allowed.	
Anl Config	SENSe<i>:LEFT<ch> <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMLower<ch> ON OFF  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMLower<ch>:VALue <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMUpper<ch> ON OFF  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<i>:LIMUpper<ch>:VALue <nu>  <i> = 1   2   6 <ch> = 1   2	

Group	Command-Mnemonic	New
Anl Config	SENSe<i>:RIGHt<ch> <nu>  <i> = 1   2   6 <ch> = 1   2	
Anl Config	SENSe<x>:DATA<y>? MIN SENSe<x>:DATA<y>? MAX  Query only	
Display	SENSe2:CONFIg:COPIYother ONCE or EXEC  ONCE or EXEC are not necessary	
Anl Config	SENSe2:DATA:ALL? SENSe2:DATA:ALL? MIN SENSe2:DATA:ALL? MAX  Query only	
Anl Config	SENSe2:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe2:FUNCIon OFF IPEAk or IPEAK RMSFft DCFft	
Anl Config	SENSe2:REFerence <nu>	
Anl Config	SENSe2:REFerence:MODE Dual channel: CH1Store CH2Store STORE CH1Meas CH2Meas GENTrack DIGoutampl VALue  Multichannel: SENSe2:REFerence:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSe2:UNAuto ON OFF	

Group	Command-Mnemonic	New
Anl Config	SENSe2:UNAuto2 ON OFF	
Anl Config	SENSe2:UNIT V DBV DBR FS :	
Anl Config	SENSe2:UNIT2 V DBV DBR FS :	
Anl Config	SENSe2:USERunit 'Unitstring'	
Anl Config	SENSe2:USERunit2 'Unitstring'	
Anl Config	SENSe3:DATA:ALL? SENSe3:DATA:ALL? MIN SENSe3:DATA:ALL? MAX  Query only	
Anl Config	SENSe3:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe3:FREQuency:APERture:MODE FAST PRECision	
Anl Config	SENSe3:FREQuency:LEFT <nu>	
Anl Config	SENSe3:FREQuency:LIMLower ON OFF	
Anl Config	SENSe3:FREQuency:LIMLower:VALue <nu>	
Anl Config	SENSe3:FREQuency:LIMUpper ON OFF	
Anl Config	SENSe3:FREQuency:LIMUpper:VALue <nu>	
Anl Config	SENSe3:FREQuency:REFerence <nu>	

Group	Command-Mnemonic	New
Anl Config	SENSE3:FREQUENCY:REFERENCE:MODE Dual Channel: CH1Store CH2Store CH1Meas CH2Meas STORE GENTrack VALue  Multichannel: VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store  CH1Store ... CH8Store and STORE are actions, afterwards the internal state is VALue, so the query answer is VALue.	
Anl Config	SENSE3:FREQUENCY:RIGHT <nu>	
Anl Config	SENSE3:FREQUENCY:UNAuto ON OFF	
Anl Config	SENSE3:FREQUENCY:UNIT HZ DHZ DPCTHZ TERZ OCT DEC FFR	
Anl Config	SENSE3:FREQUENCY:USERunit 'Unitstring'	
Anl Config	SENSE3:FUNCTION OFF FREQUENCY FQPHase FQGRoupdelay FQSamplefrequency SFREQUENCY	
Anl Config	SENSE3:GROUPELAY:REFERENCE <nu> 0 ... 10 s	

Group	Command-Mnemonic	New
Anl Config	SENSe3:PHASe:FORMat POSitive POSNegative NEGative RAD RADBipolar RADNegative INFinite	
Anl Config	SENSe3:PHASe:LEFT <nu>	
Anl Config	SENSe3:PHASe:LIMLower ON OFF	
Anl Config	SENSe3:PHASe:LIMLower:VALue <nu>	
Anl Config	SENSe3:PHASe:LIMUpper ON OFF	
Anl Config	SENSe3:PHASe:LIMUpper:VALue <nu>	
Anl Config	SENSe3:PHASe:REFerence <nu> -360° ...+360° -6,32832 ... +6,32832 RAD	
Anl Config	SENSe3:PHASe:REFerence:MODE Dual Channel: STORe VALue GENTrack  STORe is an action, the internal state is VALue, so the query answer is always VALue.  Multichannel: VALue GENTrack	
Anl Config	SENSe3:PHASe:RIGHT <nu>	
Anl Config	SENSe3:PHASe:UNAuto ON OFF	
Anl Config	SENSe3:PHASe:UNIT DEG RAD DDEG DRAD S DS	
Anl Config	SENSe3:PHASe:USERunit 'Unitstring'	
Anl Config	SENSe4:DATA?	
Display	SENSe6:CONFig:COPIOther ONCE or EXEC  ONCE or EXEC are not necessary	

Group	Command-Mnemonic	New
Anl Config	SENSe6:DATA:ALL? SENSe6:DATA:ALL? MIN SENSe6:DATA:ALL? MAX  Query only	
Anl Config	SENSe6:DATA<ch>?  <ch> = 1 ... 8	
Anl Config	SENSe6:FUNcTION OFF LRMS DC PEAK	
Anl Config	SENSe6:REFerence <nu>	
Anl Config	SENSe6:REFerence:MODE Dual Channel: CH1Store CH2Store STORE CH1Meas CH2Meas GENTrack VALue  Multichannel: SENSe6:REFerence:MODE VALue MREFchannel GENTrack CH1Store CH2Store CH3Store CH4Store CH5Store CH6Store CH7Store CH8Store	
Anl Config	SENSe6:UNAuto ON OFF	
Anl Config	SENSe6:UNAuto2 ON OFF	
Anl Config	SENSe6:UNIT V DBV DBR FS :	



Group	Command-Mnemonic	New
Anl Config	SENSe6:UNIT2 V DBV DBR FS :	
Anl Config	SENSe6:USERunit 'Unitstring'	
Anl Config	SENSe6:USERunit2 'Unitstring'	
Anl Config	SENSe7:FUNcTION OFF ON	
Anl Config	SENSe7:MMODE STANdard COMPRessed USAMple	
Anl Config	SENSe7:TRIGger:AUTO ON OFF	
Anl Config	SENSe7:TRIGger:LEVel <nu>	
Anl Config	SENSe7:TRIGger:PRE <nu>	
Anl Config	SENSe7:TRIGger:SLOPe RISing FALLing	
Anl Config	SENSe7:TRIGger:SOURce Dual channel: CH1 CH2 MANual GENBurst  Multichannel: TRGChannel MANual GENBurst	
Anl Config	SENSe7:TRIGger:TRCLength <nu>	
Anl Proto	SENSe8:FUNcTION OFF ON	
Anl Proto	SENSe8:PROTOcol:CH<x>:BYTE<y>?  <x> are <y> suffixes <x> = Channel 1 or 2 <y> = Byte 0 ... 4 Retrunvalue = 0 ... 255  <a href="#">Query only</a>	
Anl Proto	SENSe8:PROTOcol:DISPlay ON OFF	

Group	Command-Mnemonic	New
Anl Proto	SENSE8:PROTOcol:ERRor:PCM<i>?</i> SENSE8:PROTOcol:ERRor:PAR<i>?</i> SENSE8:PROTOcol:ERRor:LOC<i>?</i> SENSE8:PROTOcol:ERRor:CRC<i>?</i> SENSE8:PROTOcol:ERRor:INV<i>?</i>  <i> = 1 or 2 for Ch 1 or Ch 2  Query only "0" = no error "1" = error	
Anl Proto	SENSE8:PROTOcol:ERRor?  Query only Answer: 0,"No error" or <n>,"PCM1,PCM2,PAR1,PAR2,..." <n> represents 10 Bits (d0 ... d9) <n> = 0 ... 1023 d0: PCM1 d1: PCM2 d2: PAR1 d3: PAR2 d4: LOC1 d5: LOC2 d6: CRC1 d7: CRC2 d8: INV1 d9: INV2	
Anl Proto	SENSE8:PROTOcol:HIGHlight NOTHing FOUTput BETWeen FStart	
Anl Proto	SENSE8:PROTOcol:MODE AUTomatic or AUTOMatic CONSUMER PROFessional	
Anl Proto	SENSE8:PROTOcol:PERSistence SHORt LONG FORever	
Anl Proto	SENSE8:PROTOcol:VIEW BINText BINonly	
Gen Funct	SOURce:ACHSine:FREQUency <nu>	
Gen Funct	SOURce:ACHSine:STATe ON OFF	
Gen Funct	SOURce:ACHSine:VOLTage <nu>	

Group	Command-Mnemonic	New
Gen Funct	SOURce:ARBitrary:MODE TOCont TIMManual	
Gen Funct	SOURce:ARBitrary:RELoad ONCE   EXEC (can be omitted)	
Gen Funct	SOURce:ARBitrary:TIME <nu>	
Gen Funct	SOURce:FADIn:VALue <nu>	
Gen Funct	SOURce:FADOut:MODE OFF STPFrequency CHIRp	
Gen Funct	SOURce:FADOut:VALue <nu>	
Gen Funct	SOURce:FILTer Alias SOURce:STEReo:FILTer OFF UFIL1 UFIL2 UFIL3 UFIL4 UFIL5 UFIL6 UFIL7 UFIL8 UFIL9 AWE CARM CCIU CCIR CCIT CMES DCN DEMP17 DEMP5015 DEMP50 DEMP75 IECT JITT URUM WRUM PEMP17 PEMP5015 PEMP50 PEMP75 HP22 HP400 LP22 LP30 LP80 AES17 CWE	
Gen Funct	SOURce:FILTer:CHANnels TRACK SPLIT	

Group	Command-Mnemonic	New
Gen Funct	SOURce:FREQuency <nu>	
Gen Funct	SOURce:FREQuency:CH2Stereo <nu>	
Gen Funct	SOURce:FREQuency:DIFFerence <nu>	
Gen Funct	SOURce:FREQuency:MEAN <nu>	
Gen Config	SOURce:FREQuency:REFerence <nu> Grundeinheit: Hz	
Gen Funct	SOURce:FREQuency:SElect FQPH FQFQ	
Gen Funct	SOURce:FREQuency<i> <nu> <i> = 3 ... 32	
Gen Funct	SOURce:FREQuency2 <nu>	
Gen Funct	SOURce:FUNction SINusoid STEReo MULTisine BURSt MDISt DFD RANDom ARBitrary POLarity DC SQUare PLAY UNIVersal LIPSync	
Gen Funct	SOURce:FUNction:MODE For Multisinusus: EQUalvoltage DEFinedvoltage  For DFD: IEC268 IEC118	
Gen Config	SOURce:HDMI:AUDio:FORMat PCM2ch PCM8ch DBD DBDP DBTHd DTS DTSHd DTSMaster	
Gen Config	SOURce:HDMI:AUDio:INFoframe:STRing <String>	
Gen Config	SOURce:HDMI:AVI:STRing <String>	
Gen Config	SOURce:HDMI:CEC:STRing <String>	
Gen Config	SOURce:HDMI:EEDid:STRing <String>	

Group	Command-Mnemonic	New
Gen Config	SOURce:HDmi:HDcP ON OFF	
Gen Config	SOURce:HDmi:MPEg:INfOframe:STRing <String>  Query only	
Gen Config	SOURce:HDmi:NTSc:INfOframe:STRing <String>  Query only	
Gen Config	SOURce:HDmi:SARc LOOPback DAGen	
Gen Config	SOURce:HDmi:SPD:STRing <String>	
Gen Config	SOURce:HDmi:VENdor:INfOframe:STRing <String>  Query only	
Gen Config	SOURce:HDmi:VIDeo:COLor:DEPTH D08 D10 D12	
Gen Config	SOURce:HDmi:VIDeo:COLor:STRing <String>	
Gen Config	SOURce:HDmi:VIDeo:CONTent MONochrom LIPSync BERT PATTern	
Gen Config	SOURce:HDmi:VIDeo:CONTent:STRing <String>	
Gen Config	SOURce:HDmi:VIDeo:FORMat <string>	
Gen Config	SOURce:HDmi:VIDeo:FREQUency HZ23 HZ24 HZ25 HZ29 HZ30 HZ50 HZ59 HZ60 HZ100 HZ119 HZ120	

Group	Command-Mnemonic	New
Gen Config	SOURce:HDMI:VIDeo:RESolution P640x480_4x3 P720x576_4x3 P720x576_16x9 I720x576_4x3 I720x576_16x9 P720x480_4x3 P720x480_16x9 I720x480_4x3 I720x480_16x9 P1280x720_16x9 P1920x1080_16x9 I1920x1080_16x9	
Gen Config	SOURce:HDMI:VIDeo:SOURce INTern AXINput	
Gen Funct	SOURce:INTerval <nu>	
Gen Funct	SOURce:LIPSync:PATtern:AUDioactive:COLor:STRing <string>  <string> z.B. '(255,255,255)'	
Gen Funct	SOURce:LIPSync:PATtern:MUTE:COLor:STRing <string>  <string> z.B. '(255,255,255)'	
Gen Funct	SOURce:MCHannel<ch>:ACHSine:STATe ON OFF Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:FILTer OFF : Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:GAIN <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:LIMittofs <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:DELay <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	

Group	Command-Mnemonic	New
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:ARBitrary:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:EQUalize:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:FREQUency <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:OFFset:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:OFFset:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:PHASe <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:STATe ON OFF  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MCHannel<ch>:SINE:VOLTage <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	

Group	Command-Mnemonic	New
Gen Funct	SOURce:MCHannel<ch>:TOTal:GAIN <nu>  Option UPP-B8: <ch> = 3 till 10 Option UPP-B4 and Audio Format = PCM 8 Ch Layer 1: <ch> = 1 till 8	
Gen Funct	SOURce:MULTisine:COUNT <n>	
Gen Funct	SOURce:ONTime <nu>	
Gen Funct	SOURce:ONTime:DELay <nu>	
Gen Funct	SOURce:PHASe<i> <nu> <i> = 1 ... 32 <nu> = 0 ... 360 °	
Gen Funct	SOURce:PLAY:CHANnel MLEFt MRIGHt STEReo	
Gen Funct	SOURce:PLAY:MODE TOCont TOSingle TICont TISingle	
Gen Funct	SOURce:PLAY:MUTing OFF AFTermeas	
Gen Funct	SOURce:PLAY:REStart OFF AUTO ONCE  ONCE is a single action, so the query answer depends of the previous state and is always OFF or AUTO.	
Gen Funct	SOURce:PLAY:SCALepktofs ON OFF	
Gen Funct	SOURce:PLAY:TIME <nu>	
Gen Proto	SOURce:PROTOcol:AZERo ONCE or EXEC  ONCE or EXEC are not necessary  Query answer always OFF	
Gen Proto	SOURce:PROTOcol:CH<x>:BYTE<y> <n>  <x> and <y> are suffixes <x> = CHannel 1 or 2 <y> = Byte 0 ... 4 <n> = Value 0 ... 255	
Gen Proto	SOURce:PROTOcol:CRc ON OFF	
Gen Proto	SOURce:PROTOcol:FILE 'filename'	



Group	Command-Mnemonic	New
Gen Proto	SOURce:PROTOcol:MODE AUTomatic or AUTOMATIC PROFessional CONSUMER FILE	
Gen Proto	SOURce:PROTOcol:NUMerical:BYTe <n>  <n> = 0 ... 4	
Gen Proto	SOURce:PROTOcol:NUMerical:VALue <n>  <n> = 0 ... 255	
Gen Proto	SOURce:PROTOcol:VALidity NONE CH1And2	
Gen Funct	SOURce:RANDom:FREQUency:LOWer <nu>	
Gen Funct	SOURce:RANDom:FREQUency:UPPer <nu>	
Gen Funct	SOURce:RANDom:SHAPE WHITe PINK TOCTave FILE or ARBitrary	
Gen Funct	SOURce:RANDom:SPACing:FREQUency <nu>	
Gen Funct	SOURce:RANDom:SPACing:MODE ATRack USERdefined	
Gen Funct	SOURce:SCHSettings:CHANnel <n>	
Gen Funct	SOURce:SCHSettings:TTOChannels ON OFF	
Gen Funct	SOURce:SIGChange ON OFF	
Gen Funct	SOURce:SINusoid:DITHer <nu>	
Gen Funct	SOURce:SINusoid:DITHer:STATe ON OFF	
Gen Funct	SOURce:STEReo2:FILTer OFF UFIL1 : CWE	
Gen Funct	SOURce:SWEep:CONTRol OFF ASWeep ALISt	
Gen Funct	SOURce:SWEep:DWELI <nu> 10 ms ... 1000 s	

<b>Group</b>	<b>Command-Mnemonic</b>	<b>New</b>
Gen Funct	SOURce:SWEEp:FREQuency:HALT STARt VALue MUTE	
Gen Funct	SOURce:SWEEp:FREQuency:HALT:VALue <nu>	
Gen Funct	SOURce:SWEEp:FREQuency:POINts <n>	
Gen Funct	SOURce:SWEEp:FREQuency:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEEp:FREQuency:STARt <nu>	
Gen Funct	SOURce:SWEEp:FREQuency:STEP <nu>	
Gen Funct	SOURce:SWEEp:FREQuency:STOP <nu>	
Gen Funct	SOURce:SWEEp:NEXtstep DWEll ASYNc LIST	
Gen Funct	SOURce:SWEEp:PHASe:HALT STARt VALue MUTE	
Gen Funct	SOURce:SWEEp:PHASe:HALT:VALue <nu>	
Gen Funct	SOURce:SWEEp:PHASe:POINts <n>	
Gen Funct	SOURce:SWEEp:PHASe:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEEp:PHASe:STARt <nu>	
Gen Funct	SOURce:SWEEp:PHASe:STEP <nu>	
Gen Funct	SOURce:SWEEp:PHASe:STOP <nu>	
Gen Funct	SOURce:SWEEp:VOLTagE:HALT STARt VALue MUTE	
Gen Funct	SOURce:SWEEp:VOLTagE:HALT:VALue <nu>	
Gen Funct	SOURce:SWEEp:VOLTagE:POINts <n>	
Gen Funct	SOURce:SWEEp:VOLTagE:SPACing LINSteps LOGSteps LINPoints LOGPoints	
Gen Funct	SOURce:SWEEp:VOLTagE:STARt <nu>	
Gen Funct	SOURce:SWEEp:VOLTagE:STEP <nu>	
Gen Funct	SOURce:SWEEp:VOLTagE:STOP <nu>	

Group	Command-Mnemonic	New
Gen Funct	SOURce:SWEEp:XAXis FREQuency VOLTage PHASe	
Gen Funct	SOURce:SWEEp:ZAXis OFF FREQuency VOLTage PHASe	
Gen Config	SOURce:SYNC:INPut BALanced UNBalanced	
Gen Config	SOURce:SYNC:TERMination R75 RHIGH	
Gen Config	SOURce:SYNC:TO  For generator instrument Digital Audio: INTClock or GCLock AINPut EDARs ECLK EIClk  For generator instrument I2S Board: INTern EXTMasterclock EXTWordclock  For HDMI: HINTern HAUXinput	
Gen Funct	SOURce:VOLTage <nu>	
Gen Funct	SOURce:VOLTage:CH2Stereo <nu>	
Gen Funct	SOURce:VOLTage:CREStfactor:MODE MINimized DPHase	
Gen Funct	SOURce:VOLTage:EQualize Alias SOURce:VOLTage:STEReo:EQualize ON OFF	
Gen Funct	SOURce:VOLTage:EQualize:CHANnels TRACk SPLit	
Gen Config	SOURce:VOLTage:MAXimum <nu>	
Gen Funct	SOURce:VOLTage:OFFSet:CHANnels TRACk SPLit	

Group	Command-Mnemonic	New
Gen Funct	SOURce:VOLTage:OFFSet:STATe ON OFF CH1And2 (nur für Stereo Sinus)	
Gen Funct	SOURce:VOLTage:OFFSet<ch> <nu>	
Gen Config	SOURce:VOLTage:RANGe AUTO FIX	
Gen Funct	SOURce:VOLTage:RATio <n>	
Gen Config	SOURce:VOLTage:REFerence <nu>	
Gen Funct	SOURce:VOLTage:SElect VLRT VLVL	
Gen Funct	SOURce:VOLTage:STEReo2:EQUalize ON OFF	
Gen Funct	SOURce:VOLTage:TOTal <nu>	
Gen Funct	SOURce:VOLTage:TOTal:GAIN <nu>	
Gen Funct	SOURce:VOLTage<i> <nu>  <i> = 3 ... 32	
Gen Funct	SOURce:VOLTage<i>:RMS <nu>	
Gen Funct	SOURce:VOLTage2 <nu>	

Group	Command-Mnemonic	New
Special	<p> STATus:OPERation?  Alias  STATus:OPERation:EVENT? </p> <p> STATus:OPERation:CONDition?  STATus:OPERation:ENABLE &lt;n&gt;  STATus:OPERation:PTRansition &lt;n&gt;  STATus:OPERation:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable?  Alias  STATus:QUEStionable:EVENT? </p> <p> STATus:QUEStionable:CONDition?  STATus:QUEStionable:ENABLE &lt;n&gt;  STATus:QUEStionable:PTRansition &lt;n&gt;  STATus:QUEStionable:NTRansition &lt;n&gt; </p> <p> STATus:XQUEstionabl?  Alias  STATus:XQUEstionabl:EVENT? </p> <p> STATus:XQUEstionabl:CONDition?  STATus:XQUEstionabl:ENABLE &lt;n&gt;  STATus:XQUEstionabl:PTRansition &lt;n&gt;  STATus:XQUEstionabl:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:MEASuring?  Alias  STATus:QUEStionable:MEASuring:EVENT? </p> <p> STATus:QUEStionable:MEASuring:CONDition?  STATus:QUEStionable:MEASuring:ENABLE &lt;n&gt;  STATus:QUEStionable:MEASuring:PTRansition &lt;n&gt;  STATus:QUEStionable:MEASuring:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:OVERrange?  Alias  STATus:QUEStionable:OVERrange:EVENT? </p> <p> STATus:QUEStionable:OVERrange:CONDition?  STATus:QUEStionable:OVERrange:ENABLE &lt;n&gt;  STATus:QUEStionable:OVERrange:PTRansition &lt;n&gt;  STATus:QUEStionable:OVERrange:NTRansition &lt;n&gt; </p> <p> STATus:QUEStionable:UNDerrange?  Alias  STATus:QUEStionable:UNDerrange:EVENT? </p> <p> STATus:QUEStionable:UNDerrange:CONDition?  STATus:QUEStionable:UNDerrange:ENABLE &lt;n&gt;  STATus:QUEStionable:UNDerrange:PTRansition &lt;n&gt;  STATus:QUEStionable:UNDerrange:NTRansition &lt;n&gt; </p> <p> UNDerrange Alias UNDERrange  &lt;n&gt; = Unsigned Integer 0 ... 65535 </p>	

Group	Command-Mnemonic	New
Special	STATus:PRESet	
Special	STATus:QUEue[:NEXT]?	
Switcher	SWITcher:COMPort COM3 COM4 COM5 COM6 AUTO	
Switcher	SWITcher:INPA <n>	
Switcher	SWITcher:INPB <n>	
Switcher	SWITcher:OFFSet:BVSA <n>	
Switcher	SWITcher:OFFSet:OVSI <n>	
Switcher	SWITcher:OUTA <n>	
Switcher	SWITcher:OUTB <n>	
Switcher	SWITcher:STATe ON OFF	
Switcher	SWITcher:TRACking OFF BVSA or CH2V OVSI or OVI ALL	
Config	SYSTem:CASCade:PORTno <n>  <n> = 49152 ... 65535	
Config	SYSTem:CHNString 'String'  String: 'Ch1;;Ch2;;Ch3;;Ch4;; .... ;;Ch8'	
Config	SYSTem:COMMunicate:GPIB:ADDRess <n>  <n> = 0 ... 31	
Special	SYSTem:DISPlay:EXPLAnation<i>:HIDE  <i> = 1...10  <a href="#">No query</a>	
Special	SYSTem:DISPlay:EXPLAnation<i>:SHOW 'String'  String = 'x=0,y=10,w=200,h=100'  <i> = 1...10  <a href="#">No query</a>	
Special	SYSTem:DISPlay:EXPLAnation<i>:TEXT “<RTF-Text>”  <i> = 1...10  <a href="#">No query</a>	

Group	Command-Mnemonic	New
Config	SYSTem:DISPlay:SCPIUpdate OFF ON	
Config	SYSTem:HELP:LANGUage ENGLish GERMan	
Config	SYSTem:MAXChdisp <n>  <n> = 1 ... 8	
Special	SYSTem:MEMory:DATA<i> <n,n,n,...,n> or SYSTem:MEMory:DATA<i> #<LengthofLength><Length><Binary data as float>  <i> = 1 ... 1024 because of Chirp based Measurement	
Special	SYSTem:MEMory:FREE STRing DATA  No query	
Special	SYSTem:MEMory:STRing<i> 'String' <i> = 1 ... 1024  Stringlength max. 540 Byte	
Config	SYSTem:PROFile:CLIPboard 'Filename'	
Config	SYSTem:PROFile:FILE 'Filename'	
Config	SYSTem:PROFile:PRINter 'Filename'	
Config	SYSTem:PROFile:SCREen 'Filename'	
Special	SYSTem:PROGramm:EXECute 'xxx.exe'	
Config	SYSTem:QLONG OFF ON	
Special	SYSTem:SHUtdown SYSTem:SHUtdown <nu>  No query	
Special	SYSTem:SINFo 'String'	
Special	SYSTem:SINFo:MAC?	
Special	SYSTem:VERSion?  Query only Answer always 1999.0	
Config	SYSTem:WINStyle <del>OFF</del> ON	(new)

Group	Command-Mnemonic	New
Load Trc	TRACe:Subsys<i>:LDList:AX? TRACe:Subsys<i>:LDList:AY? TRACe:Subsys<i>:LDList:BX? TRACe:Subsys<i>:LDList:BY?  Query only	
Load Trc	TRACe:Subsys<i>:LDList:COUNT:AX? TRACe:Subsys<i>:LDList:COUNT:AY? TRACe:Subsys<i>:LDList:COUNT:BX? TRACe:Subsys<i>:LDList:COUNT:BY?  Query only	
Load Trc	TRACe:Subsys<i>:LOAD:AX? TRACe:Subsys<i>:LOAD:AY? TRACe:Subsys<i>:LOAD:BX? TRACe:Subsys<i>:LOAD:BY?  Query only	
Load Trc	TRACe:Subsys<i>:LOAD:COUNT:AX? TRACe:Subsys<i>:LOAD:COUNT:AY? TRACe:Subsys<i>:LOAD:COUNT:BX? TRACe:Subsys<i>:LOAD:COUNT:BY?  Query only	
Store Trc	TRACe:SWE<i>:STORe:AX <n,n,n,n> TRACe:Subsys<i>:STORe:AY <n,n,n,n> TRACe:SWE<i>:STORe:BX <n,n,n,n> TRACe:Subsys<i>:STORe:BY <n,n,n,n>  May be a set of ASCII data <n,n, ..... ,n,n> or a set of binary data #<LengthofLength><Length><Binary data as float> AX and BX only for SWEep Subsystem! To manipulate a sweep axis, it is strictly recommended to set the X-Source to "Manual"  No Query Query replacement is the command TRACe:Subsys<i>:LOAD:AX AY BX BY?	
Anl Config	TRIGger:CHANnel OFF CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8	
Anl Config	TRIGger:COUNt <n>	
Anl Config	TRIGger:DELay <nu>	
Anl Config	TRIGger:FREQuency:VARiation <nu>	



Group	Command-Mnemonic	New
Anl Config	TRIGger:SOURce Dual Channel: AUTO or IMMEDIATE TIMer TCHart CH1Freq CH2Freq CH1Rapidfreq CH2Rapidfreq CH1Level CH2Level CH1Trigger CH2Trigger CH1Edgetrigger CH2Edgetrigger  Multichannel: AUTO TIMer FREQuency RAPIdfreq LEVel TRIGger EDGetrigger	
Anl Config	TRIGger:TIMer <nu>	
Anl Config	TRIGger:VOLTage:VARiation <nu>	

## New Remote Control Commands arranged in groups

Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:DMIN <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:DMAX <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:MMODE  <b>Peak:</b> PPEak NPEak PTOPeak PABSolut  <b>SN:</b> RMS PPEak NPEak PTOPeak PABSolut  <b>THD:</b> SELEctdi LSELEctdi DALL LDALI DODD LDODd DEVen LDEVen DMM LDMM  <b>THD+N:</b> THDN LTHDn SNDRatio Alias SINad NOISe LNOise  <b>DFD:</b> D2_268 or D2 D3_268 or D3 D2_118 D3_118  <b>NOCTave:</b> OCT1 OCT3 OCT6 OCT12 OCT24 CBANd	(new)
Config	SYSTem:WInStyle <del>OFF</del> ON	(new)

## New alphabetical sorted Remote Control Commands

Group	Command-Mnemonic	New
Anl Funct	SENSe:FUNcTion:DMIN <n>  <n> = 2 ... 50	(new)
Anl Funct	SENSe:FUNcTion:DMAX <n>  <n> = 2 ... 50	(new)

Group	Command-Mnemonic	New																																																
Anl Funct	<p data-bbox="424 246 746 280">SENSE:FUNCTION:MMODE</p> <table data-bbox="424 309 798 488"> <tr> <td data-bbox="424 309 497 336"><b>Peak:</b></td> <td data-bbox="683 309 730 336"><b>SN:</b></td> </tr> <tr> <td>PPEak</td> <td>RMS</td> </tr> <tr> <td>NPEak</td> <td>PPEak</td> </tr> <tr> <td>PTOPeak</td> <td>NPEak</td> </tr> <tr> <td>PABSolut</td> <td>PTOPeak</td> </tr> <tr> <td></td> <td>PABSolut</td> </tr> </table> <table data-bbox="424 521 949 701"> <tr> <td data-bbox="424 521 491 548"><b>THD:</b></td> <td data-bbox="683 521 785 548"><b>THD+N:</b></td> </tr> <tr> <td>SElectdi</td> <td>THDN</td> </tr> <tr> <td>LSElectdi</td> <td>LTHDn</td> </tr> <tr> <td>DALL</td> <td>SNDRatio Alias SINad</td> </tr> <tr> <td>LDALI</td> <td>NOISe</td> </tr> <tr> <td>DODD</td> <td>LNOise</td> </tr> <tr> <td>LDODd</td> <td></td> </tr> <tr> <td>DEVen</td> <td></td> </tr> <tr> <td>LDEVen</td> <td></td> </tr> <tr> <td><b>DMM</b></td> <td></td> </tr> <tr> <td><b>LDMM</b></td> <td></td> </tr> </table> <table data-bbox="424 891 813 1097"> <tr> <td data-bbox="424 891 491 918"><b>DFD:</b></td> <td data-bbox="683 891 810 918"><b>NOCTave:</b></td> </tr> <tr> <td>D2_268 or D2</td> <td>OCT1</td> </tr> <tr> <td>D3_268 or D3</td> <td>OCT3</td> </tr> <tr> <td>D2_118</td> <td>OCT6</td> </tr> <tr> <td>D3_118</td> <td>OCT12</td> </tr> <tr> <td></td> <td>OCT24</td> </tr> <tr> <td></td> <td>CBANd</td> </tr> </table>	<b>Peak:</b>	<b>SN:</b>	PPEak	RMS	NPEak	PPEak	PTOPeak	NPEak	PABSolut	PTOPeak		PABSolut	<b>THD:</b>	<b>THD+N:</b>	SElectdi	THDN	LSElectdi	LTHDn	DALL	SNDRatio Alias SINad	LDALI	NOISe	DODD	LNOise	LDODd		DEVen		LDEVen		<b>DMM</b>		<b>LDMM</b>		<b>DFD:</b>	<b>NOCTave:</b>	D2_268 or D2	OCT1	D3_268 or D3	OCT3	D2_118	OCT6	D3_118	OCT12		OCT24		CBANd	(new)
<b>Peak:</b>	<b>SN:</b>																																																	
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Config	<p data-bbox="424 1120 651 1153">SYSTEM:WINStyle</p> <p data-bbox="424 1153 478 1180"><del>OFF</del></p> <p data-bbox="424 1180 466 1209">ON</p>	(new)																																																