DENON RS-232C/IP Command Chart
Item: FY17 AV Receiver

Last Update: 1-Dec-17　　(Refer to "Revision")

X
This pink color's cell = New assined code

COMMAND PARAMETER list

	Function		COMMAND COMMAND command	Parameter	Command example	Response code example	AVR-X8500H	AVR-X6400H	AVR-X4400H	AVR-X3400H	AVR-X2400H	AVR-S930H	AVR-X1400H	AVR-S730H	Notes
System	POWER	POWER ON/STANDBY change	PW	ON	PWON<CR>	<-	X	X	X	X	X	X	X	X	
				STANDBY	PWSTANDBY<CR>	<-	X	X	X	X	X	X	X	X	
		Return PW Status		?	PW?<CR>		X	X	X	X	X	X	X	X	
MAIN ZONE	POWER	MAIN-ZONE ON/OFF change	ZM	ON	ZMON<CR>	<-	X	X	X	X	X	X	X	X	
				OFF	ZMOFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return ZM Status		?	ZM?<CR>		X	X	X	X	X	X	X	X	
	Volume	MASTER VOLUME UP/DOWN , direct change to **dB	MV	UP	MVUP<CR>	MV80<CR>	X	X	X	X	X	X	X	X	
				DOWN	MVDOWN<CR>	MV80<CR>	X	X	X	X	X	X	X	X	
	Direct Volume	**:00 to 98 by ASCII , 8(I=80(0dB), 00=0(---dB)(MIN)		**	MV80<CR>	<-	X	X	X	X	X	X	X	X	
		Refer to "Volume_CMD"sheet													
		Return MV Status		?	MV?<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FL	CHANNEL VOLUME UP/DOWN , direct change to **dB ---FRONT Lch	CV	FL UP	CVFL UP<CR>	CVFL 50<CR>	X	X	X	X	X	X	X	X	
				FL DOWN	CVFL DOWN<CR>	CVFL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FL **	CVFL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FR	---FRONT Rch		FR UP	CVFR UP<CR>	CVFR 50<CR>	X	X	X	X	X	X	X	X	
				FR DOWN	CVFR DOWN<CR>	CVFR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FR **	CVFR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume C	---CENTERch		C UP	CVC UP<CR>	CVC 50<CR>	X	X	X	X	X	X	X	X	
				C DOWN	CVC DOWN<CR>	CVC 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		C **	CVC 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SW	---SUBWOOFER ch		SW UP	CVSW UP<CR>	CVSW 50<CR>	X	X	X	X	X	X	X	X	
				SW DOWN	CVSW DOWN<CR>	CVSW 50<CR>	X	X	X	X	X	X	X	X	
		**:00,38 to 62 by ASCII , 50=0dB,99=OFF		SW **	CVSW 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SW 2	---SUBWOOFER 2 ch		SW2 UP	CVSW2 UP<CR>	CVSW2 50<CR>	X	X	X	X	---	---	---	---	
				SW2 DOWN	CVSW2 DOWN<CR>	CVSW2 50<CR>	X	X	X	X	---	---	---	---	
		**:00,38 to 62 by ASCII , 50=0dB,99=OFF		SW2 **	CVSW2 50<CR>		X	X	X	X	---	---	---	---	
	Channel Volume SL	---SURROUND Lch		SL UP	CVSL UP<CR>	CVSL 50<CR>	X	X	X	X	X	X	X	X	
				SL DOWN	CVSL DOWN<CR>	CVSL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SL **	CVSL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SR	---SURROUND Rch		SR UP	CVSR UP<CR>	CVSR 50<CR>	X	X	X	X	X	X	X	X	
				SR DOWN	CVSR DOWN<CR>	CVSR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SR **	CVSR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SBL	---SURROUND BACK Lch (SBch 2SP)		SBL UP	CVSBL UP<CR>	CVSBL 50<CR>	X	X	X	X	X	X	X	X	
				SBL DOWN	CVSBL DOWN<CR>	CVSBL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SBL **	CVSBL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SBR	---SURROUND BACK Rch (SBch 2SP)		SBR UP	CVSBR UP<CR>	CVSBR 50<CR>	X	X	X	X	X	X	X	X	
				SBR DOWN	CVSBR DOWN<CR>	CVSBR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SBR **	CVSBR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SB	---SURROUND BACK ch (SBch 1SP)		SB UP	CVSB UP<CR>	CVSB 50<CR>	X	X	X	X	X	X	X	X	
				SB DOWN	CVSB DOWN<CR>	CVSB 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SB **	CVSB 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FHL	---FRONT HEIGHT Lch		FHL UP	CVFHL UP<CR>	CVFHL 50<CR>	X	X	X	X	X	X	X	X	
				FHL DOWN	CVFHL DOWN<CR>	CVFHL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FHL **	CVFHL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FHR	---FRONT HEIGHT Rch		FHR UP	CVFHR UP<CR>	CVFHR 50<CR>	X	X	X	X	X	X	X	X	
				FHR DOWN	CVFHR DOWN<CR>	CVFHR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FHR **	CVFHR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FWL	---FRONT WIDE Lch		FWL UP	CVFWL UP<CR>	CVFWL 50<CR>	X	---	---	---	---	---	---	---	
				FWL DOWN	CVFWL DOWN<CR>	CVFWL 50<CR>	X	---	---	---	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		FWL **	CVFWL 50<CR>		X	---	---	---	---	---	---	---	
	Channel Volume FWR	---FRONT WIDE Rch		FWR UP	CVFWR UP<CR>	CVFWR 50<CR>	X	---	---	---	---	---	---	---	
				FWR DOWN	CVFWR DOWN<CR>	CVFWR 50<CR>	X	---	---	---	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		FWR **	CVFWR 50<CR>		X	---	---	---	---	---	---	---	
	Channel Volume TFL	---TOP FRONT Lch		TFL UP	CVTFL UP<CR>	CVTFL 50<CR>	X	X	X	X	X	X	X	X	
				TFL DOWN	CVTFL DOWN<CR>	CVTFL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		TFL **	CVTFL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume TFR	---TOP FRONT Rch		TFR UP	CVTFR UP<CR>	CVTFR 50<CR>	X	X	X	X	X	X	X	X	
				TFR DOWN	CVTFR DOWN<CR>	CVTFR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		TFR **	CVTFR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume TML	---TOP MIDDLE Lch		TML UP	CVTML UP<CR>	CVTML 50<CR>	X	X	X	X	X	X	X	X	
				TML DOWN	CVTML DOWN<CR>	CVTML 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		TML **	CVTML 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume TMR	---TOP MIDDLE Rch		TMR UP	CVTMR UP<CR>	CVTMR 50<CR>	X	X	X	X	X	X	X	X	
				TMR DOWN	CVTMR DOWN<CR>	CVTMR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		TMR **	CVTMR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume TRL	---TOP REAR Lch		TRL UP	CVTRL UP<CR>	CVTRL 50<CR>	X	X	X	X	---	---	---	---	
				TRL DOWN	CVTRL DOWN<CR>	CVTRL 50<CR>	X	X	X	X	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		TRL **	CVTRL 50<CR>		X	X	X	X	---	---	---	---	
	Channel Volume TRR	---TOP REAR Rch		TRR UP	CVTRR UP<CR>	CVTRR 50<CR>	X	X	X	X	---	---	---	---	
				TRR DOWN	CVTRR DOWN<CR>	CVTRR 50<CR>	X	X	X	X	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		TRR **	CVTRR 50<CR>		X	X	X	X	---	---	---	---	
	Channel Volume RHL	---REAR HEIGHT Lch		RHL UP	CVRHL UP<CR>	CVRHL 50<CR>	X	X	X	X	X	X	X	X	
				RHL DOWN	CVRHL DOWN<CR>	CVRHL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		RHL **	CVRHL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume RHR	---REAR HEIGHT Rch		RHR UP	CVRHR UP<CR>	CVRHR 50<CR>	X	X	X	X	X	X	X	X	
				RHR DOWN	CVRHR DOWN<CR>	CVRHR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		RHR **	CVRHR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FDL	---FRONT DOLBY Lch		FDL UP	CVFDL UP<CR>	CVFDL 50<CR>	X	X	X	X	X	X	X	X	
				FDL DOWN	CVFDL DOWN<CR>	CVFDL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FDL **	CVFDL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume FDR	---FRONT DOLBY Rch		FDR UP	CVFDR UP<CR>	CVFDR 50<CR>	X	X	X	X	X	X	X	X	
				FDR DOWN	CVFDR DOWN<CR>	CVFDR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		FDR **	CVFDR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SDL	---SURROUND DOLBY Lch		SDL UP	CVSDL UP<CR>	CVSDL 50<CR>	X	X	X	X	X	X	X	X	
				SDL DOWN	CVSDL DOWN<CR>	CVSDL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SDL **	CVSDL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SDR	---SURROUND DOLBY Rch		SDR UP	CVSDR UP<CR>	CVSDR 50<CR>	X	X	X	X	X	X	X	X	
				SDR DOWN	CVSDR DOWN<CR>	CVSDR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SDR **	CVSDR 50<CR>	<-	X	X	X	X	X	X	X	X	
	Channel Volume BDL	---BACK DOLBY Lch		BDL UP	CVBDL UP<CR>	CVBDL 50<CR>	X	X	X	X	X	X	X	X	
				BDL DOWN	CVBDL DOWN<CR>	CVBDL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		BDL **	CVBDL 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume BDR	---BACK DOLBY Rch		BDR UP	CVBDR UP<CR>	CVBDR 50<CR>	X	X	X	X	X	X	X	X	
				BDR DOWN	CVBDR DOWN<CR>	CVBDR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		BDR **	CVBDR 50<CR>		X	X	X	X	X	X	X	X	
	Channel Volume SHL	---SURROUND HEIGHT Lch		SHL UP	CVSHL UP<CR>	CVSHL 50<CR>	X	X	X	X	X	X	X	X	
				SHL DOWN	CVSHL DOWN<CR>	CVSHL 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SHL **	CVSHL ** <CR>		X	X	X	X	X	X	X	X	
	Channel Volume SHR	---SURROUND HEIGHT Rch		SHR UP	CVSHR UP<CR>	CVSHR 50<CR>	X	X	X	X	X	X	X	X	
				SHR DOWN	CVSHR DOWN<CR>	CVSHR 50<CR>	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		SHR **	CVSHR ** <CR>		X	X	X	X	X	X	X	X	
	Channel Volume TS	---TOP SURROUND		TS UP	CVTS UP<CR>	CVTS 50	X	X	X	X	X	X	X	X	
				TS DOWN	CVTS DOWN<CR>	CVTS 50	X	X	X	X	X	X	X	X	
		**:38 to 62 by ASCII , 50=0dB		TS **	CVTS ** <CR>		X	X	X	X	X	X	X	X	
	Channel Volume CH	---CENTER HEIGHT		CH UP	CVCH UP<CR>	CVCH 50<CR>	X	---	---	---	---	---	---	---	
				CH DOWN	CVCH DOWN<CR>	CVCH 50<CR>	X	---	---	---	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		CH **	CVCH ** <CR>		X	---	---	---	---	---	---	---	
	Ch_Vol Reset	Reset all channel level to the factory defaults		ZRL	CVZRL<CR>	CVFL 50<CR>	X	X	X	X	X	X	X	X	
		Return CV Status		?	CV?<CR>	@Only the speaker which there is on the	X	X	X	X	X	X	X	X	
	Mute	OUTPUT MUTE ON/OFF change	MU	ON	MUON<CR>	<-	X	X	X	X	X	X	X	X	
				OFF	MUOFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return MU Status		?	MU?<CR>		X	X	X	X	X	X	X	X	
	Input	Select INPUT source	SI	PHONO	SIPHONO<CR>	<-	X	X	---	---	---	---	---	---	
				CD	SICD<CR>	<-	X	X	X	X	X	X	X	X	
				DVD	SIDVD<CR>	<-	X	X	X	X	X	X	X	X	
		---Blu-ray		BD	SIBD<CR>	<-	X	X	X	X	X	X	X	X	
		---TV AUDIO		TV	SITV<CR>	<-	X	X	X	X	X	X	X	X	
		---CBL/SAT		SAT/CBL	SISAT/CBL<CR>	<-	X	X	X	X	X	X	X	X	
		---MEDIA PLAYER		MPLAY	SIMPLAY<CR>	<-	X	X	X	X	X	X	X	X	
				GAME	SIGAME<CR>	<-	X	X	X	X	X	X	X	X	
				TUNER	SITUNER<CR>	<-	X	X	X	X	X	X	X	X	
		(North America model Only)		HDRADIO	SIHDRADIO<CR>	<-	---	---	---	---	---	---	---	---	@3: This command is available for North America model Only.
		(North America model Only)		PANDORA	SIPANDORA<CR>	<-	---	---	---	---	---	---	---	---	@3: This command is available for North America model Only.
		(North America model Only)		SIRIUSXM	SISIRIUSXM<CR>	<-	---	---	---	---	---	---	---	---	@3: This command is available for North America model Only.
				IRADIO	SIIRADIO<CR>	<-	---	---	---	---	---	---	---	---	
				SERVER	SISERVER<CR>	<-	---	---	---	---	---	---	---	---	
				FAVORITES	SIFAVORITES<CR>	<-	---	---	---	---	---	---	---	---	
		* X1400,S730:AUX , Other:AUX1 is selected		AUX1	SIAUX1<CR>	<-	X	X	X	X	X	X	X	X	
				AUX2	SIAUX2<CR>	<-	X	X	X	X	X	X	---	---	
		(when Additional Source is set to On)		AUX3	SIAUX3<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX4	SIAUX4<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX5	SIAUX5<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX6	SIAUX6<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX7	SIAUX7<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		* 2017 AVR: HEOS Music is selected		NET	SINET<CR>	<-	X	X	X	X	X	X	X	X	
		---Bluetooth		BT	SIBT<CR>	<-	X	X	X	X	X	X	X	X	
		Select INPUT source iPod/USB and Start Playback		USB/IPOD	SIUSB/IPOD<CR>	<-	---	---	---	---	---	---	---	---	
		Select INPUT source iPod/USB and iPod DIRECT Start Playback		USB	SIUSB<CR>	<-	---	---	---	---	---	---	---	---	
				IPD	SIIPD<CR>	<-	---	---	---	---	---	---	---	---	
		Select INPUT source Online Music and iRadio Recent Play		IRP	SIIRP<CR>	<-	---	---	---	---	---	---	---	---	
		Select INPUT source Online Music and Favorites Play		FVP	SIFVP<CR>	<-	---	---	---	---	---	---	---	---	
		Return SI Status		?	SI?<CR>		X	X	X	X	X	X	X	X	
	Quick Select	QUICK SELECT 1-5 MODE SELECT	MS	QUICK1	MSQUICK1<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK2	MSQUICK2<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK3	MSQUICK3<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK4	MSQUICK4<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK5	MSQUICK5<CR>	MSQUICK0<CR>	X	X	X	X	X	X	X	X	
		QUICK SELECT 1-5 MODE MEMORY		QUICK1 MEMORY	MSQUICK1 MEMORY<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK2 MEMORY	MSQUICK2 MEMORY<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK3 MEMORY	MSQUICK3 MEMORY<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK4 MEMORY	MSQUICK4 MEMORY<CR>	<-	X	X	X	X	X	X	X	X	
				QUICK5 MEMORY	MSQUICK5 MEMORY<CR>	<-	X	X	X	X	X	X	X	X	
		Return MSQUICK Status		QUICK ?	MSQUICK ?<CR>		X	X	X	X	X	X	X	X	
	Audio Input mode	set AUTO mode (Priority:HDMI>>DIGITAL>>ANALOG)	SD	AUTO	SDAUTO<CR>	<-	X	X	X	X	X	X	X	X	
		set force HDMI INPUT mode		HDMI	SDHDMI<CR>	<-	X	X	X	X	X	X	X	X	
		set force DIGITAL INPUT mode (Optical,Coaxial)		DIGITAL	SDDIGITAL<CR>	<-	X	X	X	X	X	X	X	X	
		set force ANALOG INPUT mode		ANALOG	SDANALOG<CR>	<-	X	X	X	X	X	X	X	X	
		---Set 7.1CH IN mode		7.1IN	SD7.1IN<CR>	<-	X	---	---	---	---	---	---	---	
		---When no input		NO	SDNO<CR>	<-	X	---	---	---	---	---	---	---	
		Return SD Status		?	SD?<CR>		X	X	X	X	X	X	X	X	
						SDARC<CR>	X	X	X	X	X	X	X	X	EVENT only
						SDNO<CR>	X	X	X	X	X	X	X	X	EVENT only
	Video Select	VIDEO SELECT mode set to ON. and select source	SV	DVD	SVDVD<CR>	<-	X	X	X	X	X	X	X	X	
				BD	SVBD<CR>	<-	X	X	X	X	X	X	X	X	
				TV	SVTV<CR>	<-	X	X	X	X	X	X	X	X	
		CBL/SAT		SAT/CBL	SVSAT/CBL<CR>	<-	X	X	X	X	X	X	X	X	
		MEDIA PLAYER		MPLAY	SVMPLAY<CR>	<-	X	X	X	X	X	X	X	X	
				GAME	SVGAME<CR>	<-	X	X	X	X	X	X	X	X	
				AUX1	SVAUX1<CR>	<-	X	X	X	X	X	X	X	X	
		(when Additional Source is set to On)		AUX2	SVAUX2<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX3	SVAUX3<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX4	SVAUX4<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX5	SVAUX5<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX6	SVAUX6<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX7	SVAUX7<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
				CD	SVCD<CR>	<-	X	X	X	X	X	X	X	X	
				ON	SVON<CR>	<-	X	X	X	X	X	X	X	X	
				OFF	SVOFF<CR>	<-	X	X	X	X	X	X	X	X	
				?	SV?<CR>	SVON<CR> SVOFF<CR>	X	X	X	X	X	X	X	X	
	Auto Standby	MAIN ZONE Auto Standby setting	STBY	15M	STBY15M<CR>	<-	X	X	X	X	X	X	X	X	
				30M	STBY30M<CR>	<-	X	X	X	X	X	X	X	X	
				60M	STBY60M<CR>	<-	X	X	X	X	X	X	X	X	
				OFF	STBYOFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return STBY Status		?	STBY?<CR>		X	X	X	X	X	X	X	X	
	ECO	MAIN ZONE ECO mode setting	ECO	ON	ECOON<CR>	<-	X	X	X	X	X	X	X	X	
				AUTO	ECOAUTO<CR>	<-	X	X	X	X	X	X	X	X	
				OFF	ECOOFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return ECO Status		?	ECO?<CR>		X	X	X	X	X	X	X	X	
	Sleep	MAIN ZONE SLEEP TIMER setting	SLP	OFF	SLPOFF<CR>	<-	X	X	X	X	X	X	X	X	

Function	Param	Cmd	Option	Command	Status/Return	1	2	3	4	5	6	7	8	Notes
	***:001 to 120 by ASCII , 010=10min		***	SLP120<CR>	SLP120<CR>	X	X	X	X	X	X	X	X	
	Return SLP Status		?	SLP?<CR>		X	X	X	X	X	X	X	X	
Surround mode	Select SURROUND mode	MS	MOVIE	MSMOVIE<CR>		X	X	X	X	X	X	X	X	
			MUSIC	MSMUSIC<CR>		X	X	X	X	X	X	X	X	
			GAME	MSGAME<CR>		X	X	X	X	X	X	X	X	
			DIRECT	MSDIRECT<CR>		X	X	X	X	X	X	X	X	
					MSDIRECT<CR>	X	X	X	X	X	X	X	X	
					MSDSD DIRECT<CR>	X	X	X	X	X	X	X	X	
			PURE DIRECT	MSPURE DIRECT<CR>		X	X	X	X	X	X	@3	---	
					MSPURE DIRECT<CR>	X	X	X	X	X	X	@3	---	@3: This command is available for North America model Only.
					MSDSD PURE DIRECT<CR>	X	X	X	X	X	X	@3	---	@3: This command is available for North America model Only.
			STEREO	MSSTEREO<CR>	MSSTEREO<CR>	X	X	X	X	X	X	X	X	
			AUTO	MSAUTO<CR>	<-	X	X	X	X	X	X	X	X	
			DOLBY DIGITAL	MSDOLBY DIGITAL<CR>		X	X	X	X	X	X	X	X	
					MSDOLBY PRO LOGIC<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY PL2 C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2 M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2 G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY SURROUND<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY ATMOS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY DIGITAL<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS SURROUND<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES DSCRT6.1<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES MTRX6.1<CR>	X	X	X	X	X	X	X	X	
					MSDTS+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDTS+DS<CR>	X	X	X	X	X	X	X	X	
					MSDTS96/24<CR>	X	X	X	X	X	X	X	X	
					MSDTS96 ES MTRX<CR>	X	X	X	X	X	X	X	X	
					MSDTS+NEO:6<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEURAL:X	X	X	X	X	X	X	X	X	
					MSDTS+VIRTUAL:X	X	---	---	---	---	---	---	---	
					MSDTS ES MTRX+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES DSCRT+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSMULTI CH IN<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+DOLBY EX<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+DS<CR>	X	X	X	X	X	X	X	X	
					MSMULTI CH IN 7.1<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDOLBY D+<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+ +EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+ +NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY HD<CR>	X	X	X	X	X	X	X	X	Dolby TrueHD
					MSDOLBY HD+EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY HD+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD MSTR<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+DS<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+NEO:6<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDTS:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS:X MSTR<CR>	X	X	X	X	X	X	X	X	
					MSDTS:X+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDTS EXPRESS<CR>	X	X	X	X	X	X	X	X	
					MSDTS 8CH DSCRT<CR>	X	X	X	X	X	X	X	X	
					MSMPEG2 AAC<CR>	@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
					MSAAC+DOLBY EX<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+PL2X C<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+PL2X M<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+PL2Z H<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+DS<CR>	@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
					MSAAC+NEO:X C<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+NEO:X M<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+NEO:X G<CR>	---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSAAC+NEURAL:X<CR>	@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
					MSAAC+VIRTUAL:X<CR>	@7	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
					MSPL DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2 C DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2 M DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2 G DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2X C DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2X M DSX<CR>	---	---	---	---	---	---	---	---	
					MSPL2X G DSX<CR>	---	---	---	---	---	---	---	---	
					MSAUDYSSEY DSX<CR>	---	---	---	---	---	---	---	---	
			DTS SURROUND	MSDTS SURROUND<CR>		X	X	X	X	X	X	X	X	
					MSDTS NEO:6 C<CR>	---	---	---	---	---	---	---	---	
					MSDTS NEO:6 M<CR>	---	---	---	---	---	---	---	---	
					MSDTS NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSNEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSVIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDTS SURROUND<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES DSCRT6.1<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES MTRX6.1<CR>	X	X	X	X	X	X	X	X	
					MSDTS+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDTS+DS<CR>	X	X	X	X	X	X	X	X	
					MSDTS96/24<CR>	X	X	X	X	X	X	X	X	
					MSDTS96 ES MTRX<CR>	X	X	X	X	X	X	X	X	
					MSDTS+NEO:6<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDTS+NEURAL:X	X	X	X	X	X	X	X	X	
					MSDTS+VIRTUAL:X	X	---	---	---	---	---	---	---	
					MSDTS ES MTRX+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS ES DSCRT+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY ATMOS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY DIGITAL<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSMULTI CH IN<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+DOLBY EX<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+DS<CR>	X	X	X	X	X	X	X	X	
					MSMULTI CH IN 7.1<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSM CH IN+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSM CH IN+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDOLBY D+<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+ +EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +PLZ H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY D+ +NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY D+ +NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY HD<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY HD+EX<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+DS<CR>	X	X	X	X	X	X	X	X	
					MSDOLBY HD+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDOLBY HD+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD MSTR<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+PL2X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+PL2X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+PL2Z H<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+DS<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+NEO:6<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X C<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X M<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEO:X G<CR>	---	---	---	---	---	---	---	---	
					MSDTS HD+NEURAL:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS HD+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDTS:X<CR>	X	X	X	X	X	X	X	X	
					MSDTS:X MSTR<CR>	X	X	X	X	X	X	X	X	
					MSDTS:X+VIRTUAL:X<CR>	X	---	---	---	---	---	---	---	
					MSDTS EXPRESS<CR>	X	X	X	X	X	X	X	X	

Category	Description		Command	Alt Command	M1	M2	M3	M4	M5	M6	M7	M8	Notes
			MSDTS ES 8CH DSCRT<CR>		X	X	X	X	X	X	X	X	
			MSMPEG2 AAC<CR>		@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
			MSAAC+DOLBY EX<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+PL2X M<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+PL2X H<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+PLZZ H<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+DBS<CR>		@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
			MSAAC+NEO.X C<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+NEO.X M<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+NEO.X G<CR>		---	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSAAC+NEURAL.X<CR>		@7	@7	@7	---	@7	---	@7	---	@7: This command is available for Japan model Only
			MSAAC+VIRTUAL.X<CR>		@7	---	---	---	---	---	---	---	@7: This command is available for Japan model Only
			MSNEO:6 C DSX<CR>		---	---	---	---	---	---	---	---	
			MSNEO:6 M DSX<CR>		---	---	---	---	---	---	---	---	
			MSAUDYSSEY DSX<CR>		---	---	---	---	---	---	---	---	
AURO3D		MSAURO3D<CR>			X(*1)	X	X	---	---	---	---	---	*1 This mode will be supported via firmware update
AURO2DSURR		MSAURO2DSURR<CR>			X(*1)	X	X	---	---	---	---	---	*1 This mode will be supported via firmware update
MCH STEREO		MSMCH STEREO<CR>	MSMCH STEREO<CR>		X	X	X	X	X	X	X	X	
WIDE SCREEN		MSWIDE SCREEN<CR>	<-		X	X	X	X	X	X	X	X	
SUPER STADIUM		MSSUPER STADIUM<CR>	<-		X	X	X	X	X	X	X	X	
ROCK ARENA		MSROCK ARENA<CR>	<-		X	X	X	X	X	X	X	X	
JAZZ CLUB		MSJAZZ CLUB<CR>	<-		X	X	X	X	X	X	X	X	
CLASSIC CONCERT		MSCLASSIC CONCERT<CR>	<-		---	X	X	X	X	X	---	---	
MONO MOVIE		MSMONO MOVIE<CR>	<-		X	X	X	X	X	X	X	X	
MATRIX		MSMATRIX<CR>	<-		X	X	X	X	X	X	X	X	
VIDEO GAME		MSVIDEO GAME<CR>	<-		X	X	X	X	X	X	X	X	
VIRTUAL		MSVIRTUAL<CR>	<-		X	X	X	X	X	X	X	X	
LEFT		MSLEFT<CR>	MSSTEREO<CR>		X	X	X	X	X	X	X	X	Change to Previous surround mode (Same as left turn operation of front knob)
RIGHT		MSRIGHT<CR>	MSSTEREO<CR>		X	X	X	X	X	X	X	X	Change to Next surround mode (Same as right turn operation of front knob)
-		-	MSALL ZONE STEREO<CR>		X	X	X	X	X	X	X	X	
			MS7.1IN<CR>		X	---	---	---	---	---	---	---	
?		MS?<CR>			X	X	X	X	X	X	X	X	
Aspect	Set Aspect Ratio to 4:3 mode	VS	ASPNRM	VSASPNRM<CR>	X	X	X	X	X	X	---	---	
	Set Aspect Ratio to 16:9 mode		ASPFUL	VSASPFUL<CR>	X	X	X	X	X	X	---	---	
	Return VSASPECT Status		ASP ?	VSASP ?<CR>	X	X	X	X	X	X	---	---	
HDMI Output	Set HDMI MONITOR automatic detection		MONIAUTO	VSMONIAUTO<CR>	X	X	X	X	X	X	---	---	
	Set HDMI MONITOR OUT-1		MONI1	VSMONI1<CR>	X	X	X	X	X	X	---	---	
	Set HDMI MONITOR OUT-2		MONI2	VSMONI2<CR>	X	X	X	X	X	X	---	---	
	Return VSMONI Status		MONI ?	VSMONI ?<CR>	X	X	X	X	X	X	---	---	
HDMI Resolution	Set Resolution to 480i/576o		SC48P	VSSC48P<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 1080i		SC10I	VSSC10I<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 720p		SC72P	VSSC72P<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 1080p		SC10P	VSSC10P<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 1080p:24Hz		SC10P24	VSSC10P24<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 4K(24)		SC4K	VSSC4K<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 4K(60/50)		SC4KF	VSSC4KF<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to AUTO		SCAUTO	VSSCAUTO<CR>	X	X	X	X	---	---	---	---	
	Return VSSC Status		SC ?	VSSC ?<CR>	X	X	X	X	---	---	---	---	
	Set Resolution to 480p/576p (HDMI)		SCH48P	VSSCH48P<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 1080i(HDMI)		SCH10I	VSSCH10I<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 720p(HDMI)		SCH72P	VSSCH72P<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 1080p(HDMI)		SCH10P	VSSCH10P<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 1080p:24Hz(HDMI)		SCH10P24	VSSCH10P24<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 4K(24)(HDMI)		SCH4K	VSSCH4K<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to 4K(60/50) (HDMI)		SCH4KF	VSSCH4KF<CR>	X	X	X	X	X	X	---	---	
	Set Resolution to AUTO(HDMI)		SCHAUTO	VSSCHAUTO<CR>	X	X	X	X	X	X	---	---	
	Return VSSCH Status(HDMI)		SCH ?	VSSCH ?<CR>	X	X	X	X	X	X	---	---	
Vertical Stretch	Vertical Stretch : ON		VST ON	VSVST ON<CR>	X	---	---	---	---	---	---	---	
	Vertical Stretch : OFF		VST OFF	VSVST OFF<CR>	X	---	---	---	---	---	---	---	
	Return VSVST Status		VST ?	VSVST ?<CR>	X	---	---	---	---	---	---	---	
HDMI Audio Decode	Set HDMI AUDIO Output to AMP		AUDIO.AMP	VSAUDIO.AMP<CR>	X	X	X	X	X	X	X	X	
	Set HDMI AUDIO Output to TV		AUDIO TV	VSAUDIO.TV<CR>	X	X	X	X	X	X	X	X	
	Return VSAUDIO Status		AUDIO ?	VSAUDIO ?<CR>	X	X	X	X	X	X	X	X	
Video Process	Set Video Processing Mode to AUTO		VPMAUTO	VSVPMAUTO<CR>	X	X	X	X	X	X	---	---	
	Set Video Processing Mode to GAME		VPMGAME	VSVPMGAME<CR>	X	X	X	X	X	X	---	---	
	Set Video Processing Mode to MOVIE		VPMMOVI	VSVPMMOVI<CR>	X	X	X	X	X	X	---	---	
	Set Video Processing Mode to BYPASS		VPMBYP	VSVPMBYP<CR>	X	X	X	X	X	X	---	---	
	Return VSVPM Status		VPM ?	VSVPM ?<CR>	X	X	X	X	X	X	---	---	
Speaker A/B	FRONT SPEAKER direct change	PS	FRONT.SPA	PSFRONT.SPA<CR>	<-	@9	@9	@9	@9	@9	---	@9	@9 : Requires to be set "Amp assign = Front B"
			FRONT.SPB	PSFRONT.SPB<CR>	<-	@9	@9	@9	@9	@9	---	@9	@9 : Requires to be set "Amp assign = Front B"
			FRONT.A+B	PSFRONT.A+B<CR>	<-	@9	@9	@9	@9	@9	---	@9	@9 : Requires to be set "Amp assign = Front B"
	Return PSFRONT Status		FRONT?	PSFRONT?<CR>	<-	@9	@9	@9	@9	@9	---	@9	@9 : Requires to be set "Amp assign = Front B"
Effect Speaker selection	Floor		SP.FL	PSSP.FL<CR>	<-	X	X	X	---	---	---	---	
	Height & Floor		SP.HF	PSSP.HF<CR>	<-	X	X	X	---	---	---	---	
	Return PSSP. Status		SP. ?	PSSP. ?<CR>	<-	X	X	X	---	---	---	---	
Subwoofer	SW ON/OFF		SWR ON	PSSWR ON<CR>	<-	X	X	X	X	X	X	X	
	※DIRECT.STEREO(2ch) mode		SWR OFF	PSSWR OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSSWR Status		SWR ?	PSSWR ?<CR>	<-	X	X	X	X	X	X	X	
TONE	PARAMETER setting		TONE CTRL ON	PSTONE CTRL ON<CR>	<-	X	X	X	X	X	X	X	
	TONE CONTROL ON/OFF		TONE CTRL OFF	PSTONE CTRL OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSTONE CONTROL Status		TONE CTRL ?	PSTONE CTRL ?<CR>	<-	X	X	X	X	X	X	X	
BASS	BASS UP/DOWN , direct change to **dB		BAS UP	PSBAS UP<CR>	PSBAS 50<CR>	X	X	X	X	X	X	X	
	**:00 to 99 by ASCII , 00=0dB		BAS DOWN	PSBAS DOWN<CR>	PSBAS 50<CR>	X	X	X	X	X	X	X	
	--AVR can be operated from -6 to +6(44 to 56)		BAS **	PSBAS 50<CR>	<-	X	X	X	X	X	X	X	
	Return PSBAS Status		BAS ?	PSBAS ?<CR>	X	X	X	X	X	X	X	X	
TREBLE	TREBLE UP/DOWN , direct change to **dB		TRE UP	PSTRE UP<CR>	PSTRE 50<CR>	X	X	X	X	X	X	X	
	**:00 to 99 by ASCII , 50=0dB		TRE DOWN	PSTRE DOWN<CR>	PSTRE 50<CR>	X	X	X	X	X	X	X	
	--AVR can be operated from -6 to +6(44 to 56)		TRE **	PSTRE 50<CR>	<-	X	X	X	X	X	X	X	
	Return PSTRE Status		TRE ?	PSTRE ?<CR>	X	X	X	X	X	X	X	X	
Loudness Management	Loudness Management: ON		PSLOM ON	PSLOM ON<CR>	<-	X	X	X	X	X	X	X	
	Loudness Management: OFF		PSLOM OFF	PSLOM OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSLOM Status		PSLOM ?	PSLOM ?<CR>	<-	X	X	X	X	X	X	X	
Bass Sync	Bass Sync UP/DOWN , direct change to **dB		BSC UP	PSBSC UP<CR>	PSBSC 10<CR>	X	X	X	---	---	---	---	
	**:00 to 99 by ASCII , 00=0		BSC DOWN	PSBSC DOWN<CR>	PSBSC 10<CR>	X	X	X	---	---	---	---	
	--AVR can be operated from 0 to 16		BSC **	PSBSC 10<CR>	<-	X	X	X	---	---	---	---	
	Return PSBSC Status		BSC ?	PSBSC ?<CR>	X	X	X	---	---	---	---	---	
Dialog Enhancer	Dialogue Enhancer		DEH OFF	PSDEH OFF<CR>	<-	X	X	---	---	---	---	---	
			DEH.LOW	PSDEH LOW<CR>	<-	X	X	---	---	---	---	---	
			DEH.MED	PSDEH MED<CR>	<-	X	X	---	---	---	---	---	
			DEH.HIGH	PSDEH HIGH<CR>	<-	X	X	---	---	---	---	---	
	Return PSDEH Status		DEH ?	PSDEH ?<CR>	<-	X	X	---	---	---	---	---	
Subwoofer Level	Subwoofer Level Adjust = ON		SWL ON	PSSWL ON<CR>	<-	X	X	X	X	X	X	X	
	Subwoofer Level Adjust = OFF		SWL OFF	PSSWL OFF<CR>	<-	X	X	X	X	X	X	X	
	--SUBWOOFER(1) Level Adjust		SWL UP	PSSWL UP<CR>	PSSWL 50<CR>	X	X	X	X	X	X	X	
	**:00,38 to 62 by ASCII , 50=0dB		SWL DOWN	PSSWL DOWN<CR>	PSSWL 50<CR>	X	X	X	X	X	X	X	
			SWL **	PSSWL 50<CR>	<-	X	X	X	X	X	X	X	
	--SUBWOOFER(2) Level Adjust		SWL2 UP	PSSWL2 UP<CR>	PSSWL2 50<CR>	X	X	X	X	X	X	X	
	**:00,38 to 62 by ASCII , 50=0dB		SWL2 DOWN	PSSWL2 DOWN<CR>	PSSWL2 50<CR>	X	X	X	X	X	X	X	
	Return SWL Status		SWL2 **	PSSWL2 50<CR>	<-	X	X	X	X	X	X	X	
			SWL ?	PSSWL ?<CR>	PSSWL ?<CR>	X	X	X	X	X	X	X	
Dialog Level	Dialog Level Adjust = ON		DIL ON	PSDIL ON<CR>	<-	---	X	X	X	X	X	X	
	Dialog Level Adjust = OFF		DIL OFF	PSDIL OFF<CR>	<-	---	X	X	X	X	X	X	
	--Dialog Level Adjust		DIL UP	PSDIL UP<CR>	PSDIL 50<CR>	---	X	X	X	X	X	X	
	**:38 to 62 by ASCII , 50=0dB		DIL DOWN	PSDIL DOWN<CR>	PSDIL 50<CR>	---	X	X	X	X	X	X	
	Return DIL Status		DIL **	PSDIL 50<CR>	<-	---	X	X	X	X	X	X	
			DIL ?	PSDIL ?<CR>	<-	---	X	X	X	X	X	X	
LFE	LFE UP/DOWN , direct change to **dB		LFE UP	PSLEE UP<CR>	PSLFE 10<CR>	X	X	X	X	X	X	X	
	**:00 to 99 by ASCII , 00=0dB, 10=-10dB		LFE DOWN	PSLFE DOWN<CR>	PSLFE 10<CR>	X	X	X	X	X	X	X	
	--AVR can be operated from 0 to -10 .		LFE **	PSLFE 10<CR>	<-	X	X	X	X	X	X	X	
	Return PSLFE Status		LFE ?	PSLFE ?<CR>	X	X	X	X	X	X	X	X	
LFE in 7.1 CH mode	LFE Level direct change(When 7.1CH IN)		LFL 00	PSLFL 00<CR>	<-	X	---	---	---	---	---	---	
			LFL 05	PSLFL 05<CR>	<-	X	---	---	---	---	---	---	
			LFL 10	PSLFL 10<CR>	<-	X	---	---	---	---	---	---	
			LFL 15	PSLFL 15<CR>	<-	X	---	---	---	---	---	---	
	Return PSLFL Status		LFL ?	PSLFL ?<CR>	<-	X	---	---	---	---	---	---	
CENTER Spread	CENTER SPREAD ON/OFF		CES ON	PSCES ON<CR>	<-	X	X	X	X	X	X	X	
			CES OFF	PSCES OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSCES Status		CES ?	PSCES ?<CR>	<-	X	X	X	X	X	X	X	
Dialog Control	Dialog Control UP/DOWN , direct change to **dB		DIC UP	PSDIC UP<CR>	PSDIC 03<CR>	X	X	X	X	X	X	X	
	**:00 to 99 by ASCII , 00=0		DIC DOWN	PSDIC DOWN<CR>	PSDIC 03<CR>	X	X	X	X	X	X	X	
	--AVR can be operated from 0 to 6		DIC **	PSDIC 03<CR>	<-	X	X	X	X	X	X	X	
	Return PSDIC Status		DIC ?	PSDIC ?<CR>	<-	X	X	X	X	X	X	X	
Neural:X	Neural:X ON/OFF		NEURAL ON	PSNEURAL ON<CR>	<-	X	X	X	X	X	X	X	
			NEURAL OFF	PSNEURAL OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSNEURAL Status		NEURAL ?	PSNEURAL ?<CR>	<-	X	X	X	X	X	X	X	
Audyssey DSX	Audyssey DSX ON(Height&Wide)		DSX ONHW	PSDSX ONHW<CR>	<-	---	X	X	X	X	---	---	
	Audyssey DSX ON(Height)		DSX ONH	PSDSX ONH<CR>	<-	---	X	X	X	X	---	---	
	Audyssey DSX ON(Width)		DSX ONW	PSDSX ONW<CR>	<-	---	X	X	X	X	---	---	
	Audyssey DSX OFF		DSX OFF	PSDSX OFF<CR>	<-	---	X	X	X	X	---	---	
	Return PSDSX Status		DSX ?	PSDSX ?<CR>	<-	---	X	X	X	X	---	---	
Stage Width	STAGE WIDTH UP/DOWN , direct change to **dB		STW UP	PSSTW UP<CR>	PSSTW 50<CR>	---	X	X	X	X	X	---	---	
	**:00 to 99 by ASCII , 50=0dB		STW DOWN	PSSTW DOWN<CR>	PSSTW 50<CR>	---	X	X	X	X	X	---	---	
	--AVR can be operated from -10 to +10(40 to 60)		STW **	PSSTW 50<CR>	<-	---	X	X	X	X	X	---	---	
	Return PSSTW Status		STW ?	PSSTW ?<CR>	<-	---	X	X	X	X	X	---	---	
Stage Height	STAGE HEIGHT UP/DOWN , direct change to **dB		STH UP	PSSTH UP<CR>	PSSTH 50<CR>	---	X	X	X	X	X	---	---	
	**:00 to 99 by ASCII , 50=0dB		STH DOWN	PSSTH DOWN<CR>	PSSTH 50<CR>	---	X	X	X	X	X	---	---	
	--AVR can be operated from -10 to +10(40 to 60)		STH **	PSSTH 50<CR>	<-	---	X	X	X	X	X	---	---	
	Return PSSTH Status		STH ?	PSSTH ?<CR>	<-	---	X	X	X	X	X	---	---	
CINEMA EQ	CINEMA EQ. ON/OFF		CINEMA EQ.ON	PSCINEMA EQ.ON<CR>	<-	X	X	X	X	X	X	X	
			CINEMA EQ.OFF	PSCINEMA EQ.OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSCINEMA EQ Status		CINEMA EQ. ?	PSCINEMA EQ. ?<CR>	<-	X	X	X	X	X	X	X	
MultEQ	MultEQ/MultEQ XT/MultEQ XT32 mode direct change		MULTEQ:AUDYSSEY	PSMULTEQ:AUDYSSEY<CR>	<-	X	X	X	X	X	X	X	
	AUDYSSEY= Reference		MULTEQ:BYP.LR	PSMULTEQ:BYP.LR<CR>	<-	X	X	X	X	X	X	X	
	BYP.LR= L/R Bypass		MULTEQ:FLAT	PSMULTEQ:FLAT<CR>	<-	X	X	X	X	X	X	X	
			MULTEQ:OFF	PSMULTEQ:OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSMULTEQ: Status		MULTEQ ?	PSMULTEQ ?<CR>	<-	X	X	X	X	X	X	X	
Dynamic EQ	Dynamic EQ = ON		DYNEQ ON	PSDYNEQ ON<CR>	<-	X	X	X	X	X	X	X	
	Dynamic EQ = OFF		DYNEQ OFF	PSDYNEQ OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSDYNEQ Status		DYNEQ ?	PSDYNEQ ?<CR>	<-	X	X	X	X	X	X	X	
	Reference Level Offset=0dB		REFLEV 0	PSREFLEV 0<CR>	<-	X	X	X	X	X	X	X	
	Reference Level Offset=5dB		REFLEV 5	PSREFLEV 5<CR>	<-	X	X	X	X	X	X	X	
	Reference Level Offset=10dB		REFLEV 10	PSREFLEV 10<CR>	<-	X	X	X	X	X	X	X	
	Reference Level Offset=15dB		REFLEV 15	PSREFLEV 15<CR>	<-	X	X	X	X	X	X	X	
	Return PSREFLEV Status		REFLEV ?	PSREFLEV ?<CR>	<-	X	X	X	X	X	X	X	
Dynamic Vol.	Dynamic Volume = Heavy		DYNVOL HEV	PSDYNVOL HEV<CR>	<-	X	X	X	X	X	X	X	
	Dynamic Volume = Medium		DYNVOL MED	PSDYNVOL MED<CR>	<-	X	X	X	X	X	X	X	
	Dynamic Volume = Light		DYNVOL LIT	PSDYNVOL LIT<CR>	<-	X	X	X	X	X	X	X	
	Dynamic Volume = OFF		DYNVOL OFF	PSDYNVOL OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSDYNVOL Status		DYNVOL ?	PSDYNVOL ?<CR>	<-	X	X	X	X	X	X	X	
Audyssey LFC	Audyssey LFC = ON		LFC ON	PSLFC ON<CR>	<-	X	X	X	X	---	---	---	
	Audyssey LFC = OFF		LFC OFF	PSLFC OFF<CR>	<-	X	X	X	X	---	---	---	
	Return Audyssey LFC Status		LFC ?	PSLFC ?<CR>	<-	X	X	X	X	---	---	---	
	Containment Amount UP/DOWN , direct change to **		CNTAMT UP	PSCNTAMT UP<CR>	PSCNTAMT 01<CR>	X	X	X	X	---	---	---	
	**:00 to 99 by ASCII , 00=0,		CNTAMT DOWN	PSCNTAMT DOWN<CR>	PSCNTAMT 01<CR>	X	X	X	X	---	---	---	
	--AVR can be operated from 1 to 7 (01 to 07)		CNTAMT **	PSCNTAMT 01<CR>	<-	X	X	X	X	---	---	---	
	Return Containment Amount Status		CNTAMT ?	PSCNTAMT ?<CR>	X	X	X	X	---	---	---	---	
Graphic EQ	Graphic EQ = ON		GEQ ON	PSGEQ ON<CR>	<-	X	X	X	X	X	X	X	
	Graphic EQ = OFF		GEQ OFF	PSGEQ OFF<CR>	<-	X	X	X	X	X	X	X	
	Return Graphic EQ Status		GEQ ?	PSGEQ ?<CR>	<-	X	X	X	X	X	X	X	
Headphone EQ	Headphone EQ = ON		HEQ ON	PSHEQ ON<CR>	<-	X	X	X	X	X	X	X	
	Headphone EQ = OFF		HEQ OFF	PSHEQ OFF<CR>	<-	X	X	X	X	X	X	X	
	Return Headphone EQ Status		HEQ ?	PSHEQ ?<CR>	<-	X	X	X	X	X	X	X	
DRC	DRC direct change		DRC AUTO	PSDRC AUTO<CR>	<-	X	X	X	X	X	X	X	
			DRC LOW	PSDRC LOW<CR>	<-	X	X	X	X	X	X	X	
			DRC MID	PSDRC MID<CR>	<-	X	X	X	X	X	X	X	
			DRC HI	PSDRC HI<CR>	<-	X	X	X	X	X	X	X	
			DRC OFF	PSDRC OFF<CR>	<-	X	X	X	X	X	X	X	
	Return PSDRC Status		DRC ?	PSDRC ?<CR>	<-	X	X	X	X	X	X	X	
EFFECT	EFFECT ON/OFF direct change		EFF ON	PSEFF ON<CR>	PSEFF 10<CR>	---	---	---	---	---	---	---	---	
			EFF OFF	PSEFF OFF<CR>		X	X	X	X	X	X	X	X	
	EFFECT LEVEL direct change to **dB		EFF UP	PSEFF UP<CR>	PSEFF 10<CR>	X	X	X	X	X	X	X	X	
	**:00 to 99 by ASCII , 00=0dB, 10=10dB		EFF DOWN	PSEFF DOWN<CR>	PSEFF 10<CR>	X	X	X	X	X	X	X	X	
	--AVR can be operated from 1 to 15		EFF **	PSEFF 10<CR>	ext (WIDE SCREEN mode)	X	X	X	X	X	X	X	X	
	Return PSEFF Status		EFF ?	PSEFF ?<CR>		X	X	X	X	X	X	X	X	
DELAY TIME	DELAY UP/DOWN , direct change to ***dB		DEL UP	PSDEL UP<CR>	PSDEL 000<CR>	X	X	X	X	X	X	X	X	
	***:000 to 999 by ASCII , 000=0ms, 300=300ms		DEL DOWN	PSDEL DOWN<CR>	PSDEL 000<CR>	X	X	X	X	X	X	X	X	
	--AVR can be operated from 0 to 300		DEL ***	PSDEL 000<CR>	<-	X	X	X	X	X	X	X	X	
	0-60ms:3ms/Step Over 60ms:10ms/Step													
	Return PSDEL Status		DEL ?	PSDEL ?<CR>		X	X	X	X	X	X	X	X	

Category	Function	Description	Prefix	Command	Response	M1	M2	M3	M4	M5	M6	M7	M8	Notes
	ROOM SIZE	ROOM SIZE direct change		RSZ S PSRSZ S<CR>	<-	X	X	X	X	X	X	X	X	
				RSZ MS PSRSZ MS<CR>	<-	X	X	X	X	X	X	X	X	
				RSZ M PSRSZ M<CR>	<-	X	X	X	X	X	X	X	X	
				RSZ ML PSRSZ ML<CR>	<-	X	X	X	X	X	X	X	X	
				RSZ L PSRSZ L<CR>	<-	X	X	X	X	X	X	X	X	
		Return PSRSZ Status		RSZ ? PSRSZ ?<CR>		X	X	X	X	X	X	X	X	
	Audio Delay	AUDIO DELAY UP/DOWN . direct change to ***dB		DELAY UP PSDELAY UP<CR>	PSDELAY 200<CR>	X	X	X	X	X	X	X	X	
		***:000 to 999 by ASCII , 000=0ms, 200=200ms		DELAY DOWN PSDELAY DOWN<CR>	PSDELAY 200<CR>	X	X	X	X	X	X	X	X	
		—AVR can be operated from 0 to 500 (FY16)		DELAY *** PSDELAY 200<CR>	<-	X	X	X	X	X	X	X	X	
		Return PSDELAY Status		DELAY? PSDELAY ?<CR>		X	X	X	X	X	X	X	X	
	AUDIO RESTORER	AUDIO RESTORER direct change		RSTR OFF PSRSTR OFF<CR>	<-	X	X	X	X	X	X	X	X	
		RSTR LOW=MODE3		RSTR LOW PSRSTR LOW<CR>	<-	X	X	X	X	X	X	X	X	
		RSTR MID=MODE2		RSTR MED PSRSTR MED<CR>	<-	X	X	X	X	X	X	X	X	
		RSTR HI=MODE1		RSTR HI PSRSTR HI<CR>	<-	X	X	X	X	X	X	X	X	
		Return PSRSTR Status		RSTR ? PSRSTR ?<CR>		X	X	X	X	X	X	X	X	
	Auro-Matic 3D Preset	Auro-Matic 3D Preset direct change		AUROPR SMA PSAUROPR SMA<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
				AUROPR MED PSAUROPR MED<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
				AUROPR LAR PSAUROPR LAR<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
				AUROPR SPE PSAUROPR SPE<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
		Return PSAUROPR Status		AUROPR ? PSAUROPR ?<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
	Auro-Matic 3D Strength	Auro-Matic 3D Strength UP/DOWN . direct change to **		AUROST UP PSAUROST UP<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
		**:00 to 99 by ASCII , 01=1, 10=10		AUROST DOWN PSAUROST DOWN<CR>	<-	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
		—AVR can be operated from 1 to 16		AUROST ** PSAUROST **	PSAUROST 10<CR>	X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
		Return PSAUROST Status		AUROST ? PSAUROST ?<CR>		X(*1)	X	---	---	---	---	---	---	*1 This mode will be supported via firmware update
	Picture Mode	Picture Mode direct change*	PV	OFF PVOFF<CR>	<-	X	X	X	X	X	X	---	---	
		-Off												
		-Standard		STD PVSTD<CR>	<-	X	X	X	X	X	X	---	---	
		-Movie		MOV PVMOV<CR>	<-	X	X	X	X	X	X	---	---	
		-Vivid		VVD PVVVD<CR>	<-	X	X	X	X	X	X	---	---	
		-Stream		STM PVSTM<CR>	<-	X	X	X	X	X	X	---	---	
		-Custom		CTM PVCTM<CR>	<-	X	X	X	X	X	X	---	---	
		-ISF Day		DAY PVDAY<CR>	<-	X	X	X	X	X	X	---	---	
		-ISF Night		NGT PVNGT<CR>	<-	X	X	X	X	X	X	---	---	
		Return PV Status		? PV?		X	X	X	X	X	X	---	---	
	Contrast	CONTRAST UP/DOWN . direct change to **dB		CN UP PVCN UP<CR>	PVCN 050<CR>	X	X	X	X	X	X	---	---	
				CN DOWN PVCN DOWN<CR>	PVCN 050<CR>	X	X	X	X	X	X	---	---	
		***:000 to 100 by ASCII , 050=0		CN *** PVCN 050<CR>	<-	X	X	X	X	X	X	---	---	
		Return PVCN Status		CN ? PVCN ?<CR>		X	X	X	X	X	X	---	---	
	Brightness	BRIGHTNESS UP/DOWN . direct change to **dB		BR UP PVBR UP<CR>	PVBR 050<CR>	X	X	X	X	X	X	---	---	
				BR DOWN PVBR DOWN<CR>	PVBR 050<CR>	X	X	X	X	X	X	---	---	
		***:000 to 100 by ASCII , 050=0		BR *** PVBR 050<CR>	<-	X	X	X	X	X	X	---	---	
		—AVR can be operated from -50 to +50(000 to 100)												
		Return PVBR Status		BR ? PVBR ?<CR>		X	X	X	X	X	X	---	---	
	Saturation	Saturation UP/DOWN . direct change to **dB		ST UP PVST UP<CR>	PVST 050<CR>	X	X	X	X	X	X	---	---	
				ST DOWN PVST DOWN<CR>	PVST 050<CR>	X	X	X	X	X	X	---	---	
		***:000 to 100 by ASCII , 050=0		ST *** PVST 050<CR>	<-	X	X	X	X	X	X	---	---	
		—AVR can be operated from -50 to +50(000 to 100)												
		Return PVST Status		ST ? PVST ?<CR>		X	X	X	X	X	X	---	---	
	DNR	DNR direct change		DNR OFF PVDNR OFF<CR>	<-	X	X	X	X	X	X	---	---	
				DNR LOW PVDNR LOW<CR>	<-	X	X	X	X	X	X	---	---	
				DNR MID PVDNR MID<CR>	<-	X	X	X	X	X	X	---	---	
				DNR HI PVDNR HI<CR>	<-	X	X	X	X	X	X	---	---	
		Return PVDNR Status		DNR ? PVDNR ?<CR>		X	X	X	X	X	X	---	---	
	Enhancer	ENHANCER UP/DOWN. direct change to **dB		ENH UP PVENH UP<CR>	PVENH 12<CR>	X	X	X	X	X	X	---	---	
		**:00 to 12 by ASCII, 00=0		ENH DOWN PVENH DOWN<CR>	PVENH 12<CR>	X	X	X	X	X	X	---	---	
		—AVR can be operated from 0 to 12		ENH *** PVENH 12<CR>	<-	X	X	X	X	X	X	---	---	
		Return PVENH Status		ENH ? PVENH ?<CR>		X	X	X	X	X	X	---	---	
	Cursor	"Cursor Up" Control	MN	CUP MNCUP<CR>	※command only	X	X	X	X	X	X	X	X	
		"Cursor Down" Control		CDN MNCDN<CR>	※command only	X	X	X	X	X	X	X	X	
		"Cursor Left" Control		CLT MNCLT<CR>	※command only	X	X	X	X	X	X	X	X	
		"Cursor Right" Control		CRT MNCRT<CR>	※command only	X	X	X	X	X	X	X	X	
		"Enter" Control		ENT MNENT<CR>	※command only	X	X	X	X	X	X	X	X	
		"RETURN" Control		RTN MNRTN<CR>	※command only	X	X	X	X	X	X	X	X	
	Menu	"Setup Menu ON" Control		MEN ON MNMEN ON<CR>	<-	X	X	X	X	X	X	X	X	
		"Setup Menu OFF" Control		MEN OFF MNMEN OFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return MNMEN(Menu) status		MEN? MNMEN?<CR>		X	X	X	X	X	X	X	X	
		"OPTION" Control		OPT MNOPT<CR>	※command only	X	X	X	X	X	X	X	X	
		"INFO"Control		INF MNINF<CR>	※command only	X	X	X	X	X	X	X	X	
		"Channel Level Adjust"menu on/offControl		CHL MNCHL<CR>	※command only	X	X	X	X	X	X	X	X	
	All Zone Stereo	"All Zone Stereo" direct Control		ZST ON MNZST ON<CR>	<-	X	X	X	X	X	X	X	X	
		"All Zone Stereo" direct Control		ZST OFF MNZST OFF<CR>	<-	X	X	X	X	X	X	X	X	
		Return MNZST status		ZST ? MNZST ?<CR>	MNZST ON<CR>	X	X	X	X	X	X	X	X	
					MNZST OFF<CR>	X	X	X	X	X	X	X	X	
	Control Lock	REMOTE CONTROL LOCK ON/OFF	SY	REMOTE LOCK ON SYREMOTE LOCK ON<CR>	<-	X	X	X	X	X	X	X	X	
				REMOTE LOCK OFF SYREMOTE LOCK OFF<CR>	<-	X	X	X	X	X	X	X	X	
		PANEL BUTTON(except MASTER VOL.)CONTROL LOCK ON		PANEL LOCK ON SYPANEL LOCK ON<CR>	<-	X	X	X	X	X	X	X	X	
		PANEL BUTTON & MASTER VOL. CONTROL LOCK ON		PANEL+V LOCK ON SYPANEL+V LOCK ON<CR>	<-	X	X	X	X	X	X	X	X	
		PANEL BUTTON & MASTER VOL. CONTROL LOCK OFF		PANEL LOCK OFF SYPANEL LOCK OFF<CR>	<-	X	X	X	X	X	X	X	X	
	System Reset	System Reset		RST SYRST<CR>		X	X	X	X	X	X	X	X	
	Trigger	Trigger 1 ON/OFF Control	TR	1 ON TR1 ON<CR>	<-	X	X	X	X	---	---	---	---	
				1 OFF TR1 OFF<CR>	<-	X	X	X	X	---	---	---	---	
		Trigger 2 ON/OFF Control		2 ON TR2 ON<CR>	<-	X	X	X	---	---	---	---	---	
				2 OFF TR2 OFF<CR>	<-	X	X	X	---	---	---	---	---	
		Return TR Status		? TR?<CR>	TR1 ON<CR> TR2 ON<CR>	X	X	X	X	---	---	---	---	
	Upgrade ID	ID Number for UPGRADE is displayed on FL Display	UG	IDN UGIDN<CR>	UGIDN ************<CR> UGIDN NG<CR>	X	X	X	X	X	X	X	X	
		************:12-digit ID Number				X	X	X	X	X	X	X	X	
	Dimmer	Dimmer = Bright	DIM	BRI DIM BRI<CR>	<-	X	X	X	X	X	X	X	X	
		Dimmer = Dim		DIM DIM DIM<CR>	<-	X	X	X	X	X	X	X	X	
		Dimmer = Dark		DAR DIM DAR<CR>	<-	X	X	X	X	X	X	X	X	
		Dimmer = Off		OFF DIM OFF<CR>	<-	X	X	X	X	X	X	X	X	
		Dimmer setting select(Toggle) Bright→Dim→Dark→Off		SEL DIM SEL<CR>	<-	X	X	X	X	X	X	X	X	
		Return DIM Status		? DIM ?<CR>		X	X	X	X	X	X	X	X	
Analog Tuner	Seek +/-	TUNER Frequency UP/DOWN	TF	ANUP TFANUP<CR>	TFAN105000<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
				ANDOWN TFANDOWN<CR>	TFAN105000<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
	Frequency Direct	— ****.** kHz at AM band (>050000 is AM.)		AN****** TFAN105000<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		****.** MHz at FM band (<050000 is FM.)		(6 digits) (105000kHz at AM)										
		Return TF Status		AN? TFAN?<CR>		@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
	RDS Name	Return RDS Station Name (EU,AP Only)		ANNAME? TFANNAME?<CR>	TFANNAME123456878<CR> (Station Name"12345678")	---	@6	@6	@6	@6	---	@6	---	@6: This command is available for Europe model Only.
					If station name is NULL: TFANNAME_____<CR>("_"is space)									
	Preset	TUNER PRESET CH UP/DOWN . direct change to No.**	TP	ANUP TPANUP<CR>	TPAN01<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
				ANDOWN TPANDOWN<CR>	TPAN01<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		** : 01-56 01=CH01,56=CH56		AN**(PRESET No.) TPAN01<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
				(PRESET No."01")										
		Return TP Status		AN? TPAN?<CR>	TPANOFF<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
					(PRESET No."01")									
		TUNER PRESET MEMORY		ANMEM TPANMEM<CR>	TPANMEM<CR>	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		TUNER PRESET MEMORY		ANMEM**(PRESET No.) TPANMEM01<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		** : 01-56 01=CH01,56=CH56												
	Band	TUNER BAND . MODE Select	TM	ANAM TMANAM<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		—Band set to AM													
		—Band set to FM		ANFM TMANFM<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
	MODE	—Tuning mode set to AUTO mode		ANAUTO TMANAUTO<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		—Tuning mode set to MANUAL mode		ANMANUAL TMANMANUAL<CR>	<-	@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
		Return TM Status		AN? TMAN?<CR>		@3	X	X	X	X	X	X	X	@3 : This command is available for North America model only
HD Radio	Channel +/-	HD Channel UP/DOWN . direct change	TF	HDUP TFHDUP<CR>	TFHD105000<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	Band	— ****.** kHz at AM band (>050000 is AM.)		HDDOWN TFHDDOWN<CR>	TFHD105000<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		****.** MHz at FM band (<050000 is FM.)		HD****** TFHD105000<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	Multi Cast	—HD Multi Cast CH Select		(6 digits) (105000kHz at AM)										
		(* : Multi Cast 1~8, Analog 0)		HDMC*(1 digit) TFHDMC2<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	Frequency + Multi cast ch	—Frequency and HD Multi Cast CH Select		HD******MC* TFHD000750MC5<CR>	※command only	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		Return TFHD Status		HD? TFHD?<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	Preset	HD PRESET CH UP/DOWN . direct change to No.**	TP	HDUP TPHDUP<CR>	TPHD01<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
				HDDOWN TPHDDOWN<CR>	TPHD01<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		** : 01-56 01=CH01,56=CH56		HD** TPHD01<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
				(PRESET No.) (PRESET No."01")										
		HD PRESET MEMORY		HDMEM TPHDMEM<CR>	TPHDMEM<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					TPHDOP<CR> or TPHDDOWN<CR> or TPHD**<CR> (PRESET No.) TPHDMEM<CR>	---	---	---	---	---	---	---	---	
		** : 01-56 01=CH01,56=CH56		HDMEM**(PRESET No.) TPHDMEM01<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model only
		Return TPHD Status		HD? TPHD?<CR>	TPHDOFF<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	BAND	HD RADIO BAND . MODE Select	TM	HDAM TMHDAM<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—Band set to AM													
		—Band set to FM		HDFM TMHDFM<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	MODE	—Tuning mode set to AUTO-HD mode		HDAUTOHD TMHDAUTOHD<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—Tuning mode set to AUTO mode		HDAUTO TMHDAUTO<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—Tuning mode set to MANUAL mode		HDMANUAL TMHDMANUAL<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—Tuning mode set to ANALOG AUTO mode		HDANAAUTO TMHDANAAUTO<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—Tuning mode set to ANALOGMANUAL mode		HDANAMANU TMHDANAMANU<CR>	<-	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
	Status	Return TMHD Status		HD? TMHD?<CR>		---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		Return HD Status	HD	? HD?<CR>		---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
		—BAND, STATION NAME, MULTI CAST CURRENT CHANNEL, MULTI CAST NUMBER, SIGNAL LEVEL, ARTIST, TITLE, ALBUM, GENRE, PROGRAM TYPE,			HDST NAME ********<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 0<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 1<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 2<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 3<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 4<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 5<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDSIG LEV 6<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDMLT CURRCH *<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDMLT CAST CH *<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDPTY (18 digits)<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDARTIST (40 digits)<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDTITLE (40 digits)<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDALBUM (40 digits)<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDGENRE (23 digits)<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDMODE DIGITAL<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
					HDMODE ANALOG<CR>	---	---	---	---	---	---	---	---	@3 : This command is available for North America model Only.
Online Music	Cursor	"Cursor Up" Control	NS	90 NS90<CR>	※command only	---	---	---	---	---	---	---	---	
		"Cursor Down" Control		91 NS91<CR>	※command only	---	---	---	---	---	---	---	---	
		"Cursor Left" Control		92 NS92<CR>	※command only	---	---	---	---	---	---	---	---	
		"Cursor Right" Control		93 NS93<CR>	※command only	---	---	---	---	---	---	---	---	
		"Enter (Play/Pause)" Control		94 NS94<CR>	※command only	---	---	---	---	---	---	---	---	
	Playback	"Play/Pause" Control		9A NS9A<CR>	※command only	---	---	---	---	---	---	---	---	
		"Pause" Control		9B NS9B<CR>	※command only	---	---	---	---	---	---	---	---	
		"Stop" Control		9C NS9C<CR>	※command only	---	---	---	---	---	---	---	---	
		"Skip Plus" Control		9D NS9D<CR>	※command only	---	---	---	---	---	---	---	---	
		"Skip Minus" Control		9E NS9E<CR>	※command only	---	---	---	---	---	---	---	---	
		"Manual Search Plus" Control(USB/iPod,Media Server,Bluetooth)		9F NS9F<CR>	※command only	---	---	---	---	---	---	---	---	
		"Manual Search Minus" Control(USB/iPod,Media Server,Bluetooth)		9G NS9G<CR>	※command only	---	---	---	---	---	---	---	---	
		"Manual Search Stop" Control		9Z NS9Z<CR>	※command only	---	---	---	---	---	---	---	---	
	Playback mode	"Repeat One" (Media Server,USB,iPod Direct,Bluetooth)		9H NS9H<CR>	※command only	---	---	---	---	---	---	---	---	
		"Repeat All" (Media Server,USB,iPod Direct,Bluetooth)		9I NS9I<CR>	※command only	---	---	---	---	---	---	---	---	
		"Repeat Off" (Media Server,USB,iPod Direct,Bluetooth)		9J NS9J<CR>	※command only	---	---	---	---	---	---	---	---	
		"Random On"(Media Server,USB,iPod Direct Only)		9K NS9K<CR>	※command only	---	---	---	---	---	---	---	---	
		"Shuffle Songs" Control (iPod Direct Only)													
		"Random Off" (Media Server,USB,Bluetooth)		9M NS9M<CR>	※command only	---	---	---	---	---	---	---	---	
		"Shuffle Off" Control (iPod Direct)													
		Toggle Switch "From iPod Mode/On Screen Mode" Control (iPod Direct only)		9W NS9W<CR>	※command only	---	---	---	---	---	---	---	---	
		"Repeat(toggle)" (Media Server,USB,iPod Direct,Spotify,AirPlay,Bluetooth)		RPT NSRPT<CR>	※command only	---	---	---	---	---	---	---	---	

Function	Description	Code	Label	Command	Response									Notes
	"Random(toggle)" (Media Server,USB,iPod,Direct,Spotify,Bluetooth)		RND	NSRND<CR>	※command only	---	---	---	---	---	---	---	---	
Page +/-	"Page Next" Control (except Bluetooth, AirPlay, Spotify remote)		9X	NS9X<CR>	※command only	---	---	---	---	---	---	---		
	"Page Previous" Control (except Bluetooth, AirPlay, Spotify remote)		9Y	NS9Y<CR>	※command only	---	---	---	---	---	---	---		
Preset Direct	Preset Call (except Bluetooth, USB/iPod) **: 00-35 (00:01/35:36)		B** (PRESET No.)	NSB00<CR>	※command only	---	---	---	---	---	---	---		
Preset Memory	Preset Memory (except Bluetooth, USB/iPod) **: 00-35 (00:01/35:36)		C** (PRESET No.)	NSC00<CR>	NSCOK<CR>	---	---	---	---	---				
Preset Name	Net Audio Preset Name status (UTF-8) (except Bluetooth, USB/iPod)		H	NSH<CR>	NSH<CR> (Return) NSH00***********(20 digits)<CR>(Preset Name : 01) NSH01***********(20 digits)<CR>(Preset Name : 02) ⋮ NSH35***********(20 digits)<CR>(Preset Name : 36)	---	---	---	---	---				
	Add Favorites folder		FV MEM	NSFV MEM<CR>		---	---	---	---	---	---	---	---	
OSD Info	Return Onscreen Display Information List (ASCII CODE Character) *ASCII Character(MAX96byte) _:Null ?: Don't Care (The character after Null should be disregarded) ※:Cursor&Playable Information Data(1byte) Bit1:Playable Music =1 Bit2:Directory Bit3:Don't Care Bit4:CURSOR SELECT=1 Bit7:Picture Bit5,6,8:Don't Care	NSA	NSA<CR> (Return NSA0-NSA8)	NSA0<CR> (Return) NSA0*****************_???(96byte)<CR> NSA1※(Flag1byte)*********_??(95byte)<CR> NSA2※(Flag1byte)*********_??(95byte)<CR> NSA3※(Flag1byte)*********_??(95byte)<CR> NSA4※(Flag1byte)*********_??(95byte)<CR> NSA5※(Flag1byte)*********_??(95byte)<CR>	---	---	---	==	---	---			
			(example)		NSA0Now Playing_USB_??????<CR> NSA1※Song_???????????????<CR> NSA2※Artist_???????????????<CR> NSA3※bitrate_???????????????<CR> NSA4※Album_???????????????<CR> NSA5※ 00:11 100% ???<CR> NSA6_??????????????????????<CR> NSA7_??????????????????????<CR> NSA8 [1/10]_??????<CR> **BT playback** NSANow Playing_??????<CR> NSA1■Title_??????????????????<CR> NSA2■Artist_??????????????????<CR> NSA3■???????????????????????<CR> NSA4■Album_??????????????????<CR>									
	Request Onscreen Display Information List (UTF-8 CODE Character) *UTF-8 Character(MAX96byte) _:Null ?: Don't Care (The character after Null should be disregarded) ※:Cursor&Playable Information Data(1byte) Bit1:Playable Music =1 Bit2:Directory Bit3:Don't Care Bit4:CURSOR SELECT=1 Bit7:Picture Bit5,6,8:Don't Care	NSE	NSE<CR> (Return NSE0-NSE8)	NSE0<CR> (Return) NSE0*****************_???(96byte)<CR> NSE1※(Flag1byte)*********_??(95byte)<CR> NSE2※(Flag1byte)*********_??(95byte)<CR> NSE3※(Flag1byte)*********_??(95byte)<CR> NSE4※(Flag1byte)*********_??(95byte)<CR>	---	---	---	==	---	---			
			(example)		NSE0Now Playing_??????<CR> NSE1※Song_???????????????<CR> NSE2※Artist_???????????????<CR> NSE3※_???????????????<CR> NSE4※Album_???????????????<CR> NSE5※ 00:11 100% ???<CR> NSE6_??????????????????????<CR> NSE7_??????????????????????<CR> NSE8 [1/10]_??????<CR> **Bluetooth playback** NSENow Playing_??????<CR> NSE1■Title_??????????????????<CR> NSE2■Artist_??????????????????<CR> NSE3■???????????????????????<CR> NSE4■Album_??????????????????<CR> NSE5※ ??????????????????????									

ZONE2	Power	ZONE2 ON/OFF change		ON	Z2ON<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2" @11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
				OFF	Z2OFF<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		Return Z2 Status		?	Z2?<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
	Input	ZONE2 mode cancel (ZONE2 source is same as MAIN ZONE)	Z2	SOURCE	Z2SOURCE<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		ZONE2 mode set , and select source		PHONO	Z2PHONO<CR>	<-	X	X	X	X	---	@10	---	---	@10: Requires to be set "Amp assign = Zone2"
				CD	Z2CD<CR>	<-	X	X	X	X	X	@10	---	---	@10: Requires to be set "Amp assign = Zone2"
				DVD	Z2DVD<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				BD	Z2BD<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				TV	Z2TV<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		CBL/SAT		SAT/CBL	Z2SAT/CBL<CR>	<-	X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		MEDIA PLAYER		MPLAY	Z2MPLAY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				GAME	Z2GAME<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				TUNER	Z2TUNER<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		(North America model Only)		HDRADIO	Z2HDRADIO<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		(North America model Only)		PANDORA	Z2PANDORA<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		(North America model Only)		SIRIUSXM	Z2SIRIUSXM<CR>	<-	---	---	---	---	---	---	---	---	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
				IRADIO	Z2IRADIO<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
				SERVER	Z2SERVER<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
				FAVORITES	Z2FAVORITES<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		*X1400,S730:AUX , Other:AUX1 is selected		AUX1	Z2AUX1<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
				AUX2	Z2AUX2<CR>	<-	X	X	X	X	X	@10	---	---	@10: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		(when Additional Source is set to On)		AUX3	Z2AUX3<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX4	Z2AUX4<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX5	Z2AUX5<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX6	Z2AUX6<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX7	Z2AUX7<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		* 2017 AVR: HEOS Music is selected		NET	Z2NET<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		—Bluetooth		BT	Z2BT<CR>	<-	X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
				USB/IPOD	Z2USB/IPOD<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		Select INPUT source iPod/USB and Start Playback		USB	Z2USB<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		Select INPUT source iPod/USB and iPod DiRECT Start Playback		IPD	Z2IPD<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		Select INPUT source Online Music and iRadio Recent Play		IRP	Z2IRP<CR>	<-	---	---	---	---	---	---	---	---	@10: Requires to be set "Amp assign = Zone2"
		Select INPUT source Online Music and Favorites Play		FVP	Z2FVP<CR>	<-	---	---	---	---	---	---	---	---	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
	Volume	ZONE2 VOLUME UP/DOWN , direct change to **dB		UP	Z2UP<CR>	Z280<CR>	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				DOWN	Z2DOWN<CR>	Z280<CR>	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		**:00 to 98 by ASCII , 80=0dB, 00=---(MIN) Refer to Volume_CMD sheet		**	Z280<CR>	<-	X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
	Mute	ZONE2 OUTPUT MUTE ON/OFF change	Z2MU	ON	Z2MUON<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				OFF	Z2MUOFF<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		Return Z2MU Status		?	Z2MU?<CR>	<-	X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
	Quick Select	Z2 QUICK SELECT 1-5 MODE SELECT	Z2	QUICK1	Z2QUICK1<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK2	Z2QUICK2<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK3	Z2QUICK3<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK4	Z2QUICK4<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK5	Z2QUICK5<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				-	Z2QUICK0<CR>		X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		Z2 QUICK SELECT 1-5 MODE MEMORY		QUICK1 MEMORY	Z2QUICK1 MEMORY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK2 MEMORY	Z2QUICK2 MEMORY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK3 MEMORY	Z2QUICK3 MEMORY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUCIK4 MEMORY	Z2QUICK4 MEMORY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				QUICK5 MEMORY	Z2QUICK5 MEMORY<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		Return Z2QUICK Status		QUICK ?	Z2QUICK ?<CR>		X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
	Auto Standby	ZONE2 Auto Standby setting	Z2STBY	2H	Z2STBY2H<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				4H	Z2STBY4H<CR>	<-	X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
				8H	Z2STBY8H<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
				OFF	Z2STBYOFF<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
		Return Z2STBY Status		?	Z2STBY?<CR>		X	X	X	X	X	@10	@11	@10	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
	Stereo/Mono	ZONE2 Channel setting	Z2CS	ST	Z2CSST<CR>	<-	X	X	X	X	---	---	---	---	
				MONO	Z2CSMONO<CR>	<-	X	X	X	X	---	---	---	---	
		Return Z2CS Status		?	Z2CS?<CR>		X	X	X	X	---	---	---	---	
	Front L Level	ZONE2 CHANNEL VOLUME UP/DOWN , direct change to **dB	Z2CV	FL UP	Z2CVFL UP<CR>	Z2CVFL 50<CR>	X	X	X	X	X	@10			@10: Requires to be set "Amp assign = Zone2"
		—FRONT Lch		FL DOWN	Z2CVFL DOWN<CR>	Z2CVFL 50<CR>	X	X	X	X	X	@10			@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		**:38 to 62 by ASCII , 50=0dB		FL **	Z2CVFL 50<CR>	<-	X	X	X	X	X	@10			@10: Requires to be set "Amp assign = Zone2"
	Front R Level	ZONE2 CHANNEL VOLUME UP/DOWN , direct change to **dB	Z2CV	FR UP	Z2CVFR UP<CR>	Z2CVFR 50<CR>	X	X	X	X	X	@10			@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		—FRONT Rch		FR DOWN	Z2CVFR DOWN<CR>	Z2CVFR 50<CR>	X	X	X	X	X	@10			@10: Requires to be set "Amp assign = Zone2"
		**:38 to 62 by ASCII , 50=0dB		FR **	Z2CVFR 50<CR>	<-	X	X	X	X	X	@10			@10: Requires to be set "Amp assign = Zone2"
		Return Z2CV Status		?	Z2CV?<CR>		X	X	X	X	X	@10			@10: Requires to be set "Amp assign = Zone2"
	High Pass Filter	ZONE2 HPF ON/OFF	Z2HPF	ON	Z2HPFON<CR>	<-	X	X	X	X	---	---	---	---	@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models

		Return Z2HPF Status		OFF	Z2HPFOFF<CR>	<-	X	X	X	X	---	---	---	---	
		?			Z2HPF?<CR>		X	X	X	X	---	---	---	---	
	Bass	ZONE2 BASS UP/DOWN , direct change to **dB	Z2PS	BAS UP	Z2PSBAS UP<CR>	Z2PSBAS 50<CR>	X	X	X	X	---	---	---	---	
		**:00 to 99 by ASCII . 00=0dB from -10 to +10/40 to 60)		BAS DOWN	Z2PSBAS DOWN<CR>	Z2PSBAS 50<CR>	X	X	X	X	---	---	---	---	
				BAS **	Z2PSBAS 50<CR>		X	X	X	X	---	---	---	---	
		Return Z2PSBAS Status		BAS ?	Z2PSBAS ?<CR>		X	X	X	X	---	---	---	---	
	Treble	ZONE2 TREBLE UP/DOWN , direct change to **dB		TRE UP	Z2PSTRE UP<CR>	Z2PSTRE 50<CR>	X	X	X	X	---	---	---	---	
		**:00 to 99 by ASCII . 00=0dB from -10 to +10/40 to 60)		TRE DOWN	Z2PSTRE DOWN<CR>	Z2PSTRE 50<CR>	X	X	X	X	---	---	---	---	
				TRE **	Z2PSTRE 50<CR>		X	X	X	X	---	---	---	---	
		Return Z2PSTRE Status		TRE ?	Z2PSTRE ?<CR>		X	X	X	X	---	---	---	---	
	Sleep	ZONE2 SLEEP TIMER setting	Z2SLP	OFF	Z2SLPOFF<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
															@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		***:001 to 120 by ASCII , 010=10min		***	Z2SLP120<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
															@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
		Return SLP Status		?	Z2SLP?<CR>	<-	X	X	X	X	X	@10	@11	@10	@10: Requires to be set "Amp assign = Zone2"
															@11: Requires to be set "Amp assign = Zone2" for Europe,Japan, China models
	HDMI Audio	ZONE2HDMI Out=Through	Z2HDA	THR	Z2HDA THR<CR>	<-	X	X	X	X	---	---	---	---	
		ZONE2HDMI Out=PCM		PCM	Z2HDA PCM<CR>	<-	X	X	X	X	---	---	---	---	
		Return Z2HPA Status		?	Z2HDA?<CR>		X	X	X	X	---	---	---	---	
ZONE3	Power	ZONE3 ON/OFF change	Z3	ON	Z3ON<CR>	<-	X	X	X	---	---	---	---	---	
				OFF	Z3OFF<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3 Status		?	Z3?<CR>		X	X	X	---	---	---	---	---	
	Input	ZONE3 mode cancel (ZONE3 source is same as MAIN ZONE)		SOURCE	Z3SOURCE<CR>	<-	X	X	X	---	---	---	---	---	
		ZONE3 mode set , and select source		PHONO	Z3PHONO<CR>	<-	X	X	X	---	---	---	---	---	
				CD	Z3CD<CR>	<-	X	X	X	---	---	---	---	---	
				DVD	Z3DVD<CR>	<-	X	X	X	---	---	---	---	---	
				BD	Z3BD<CR>	<-	X	X	X	---	---	---	---	---	
				TV	Z3TV<CR>	<-	X	X	X	---	---	---	---	---	
		CBL/SAT		SAT/CBL	Z3SAT/CBL<CR>	<-	X	X	X	---	---	---	---	---	
		MEDIA PLAYER		MPLAY	Z3MPLAY<CR>	<-	X	X	X	---	---	---	---	---	
				GAME	Z3GAME<CR>	<-	X	X	X	---	---	---	---	---	
		(North America model Only)		TUNER	Z3TUNER<CR>	<-	X	X	X	---	---	---	---	---	
		(North America model Only)		HDRADIO	Z3HDRADIO<CR>	<-	---	X	X	---	---	---	---	---	
		(North America model Only)		PANDORA	Z3PANDORA<CR>	<-	---	---	---	---	---	---	---	---	
				SIRIUSXM	Z3SIRIUSXM<CR>	<-	---	---	---	---	---	---	---	---	
				IRADIO	Z3IRADIO<CR>	<-	---	---	---	---	---	---	---	---	
				SERVER	Z3SERVER<CR>	<-	---	---	---	---	---	---	---	---	
				FAVORITES	Z3FAVORITES<CR>	<-	---	---	---	---	---	---	---	---	
		(when Additional Source is set to On)		AUX1	Z3AUX1<CR>	<-	X	X	X	---	---	---	---	---	
				AUX2	Z3AUX2<CR>	<-	X	---	---	---	---	---	---	---	
		(when Additional Source is set to On)		AUX3	Z3AUX3<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX4	Z3AUX4<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX5	Z3AUX5<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX6	Z3AUX6<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		(when Additional Source is set to On)		AUX7	Z3AUX7<CR>	<-	X	---	---	---	---	---	---	---	This command is available when Additional Source setting is on
		*2017 AVR : HEOS Music is selected		NET	Z3NET<CR>	<-	X	X	X	---	---	---	---	---	
		—Bluetooth		BT	Z3BT<CR>	<-	X	X	X	---	---	---	---	---	
		Select INPUT source USB and USB Start Playback		USB/IPOD	Z3USB/IPOD<CR>	<-	X	X	X	---	---	---	---	---	
		Select INPUT source USB and iPod DIRECT Start Play		USB	Z3USB<CR>	<-	---	---	---	---	---	---	---	---	
		Select INPUT source NET/USB and iRadio Recent Play		IPD	Z3IPD<CR>	<-	---	---	---	---	---	---	---	---	
		Select INPUT source NET/USB and Favorites Play		IRP	Z3IRP<CR>	<-	---	---	---	---	---	---	---	---	
				FVP	Z3FVP<CR>	<-	---	---	---	---	---	---	---	---	
	Volume	ZONE3 VOLUME UP/DOWN , direct change to **dB		UP	Z3UP<CR>	Z380<CR>	X	X	X	---	---	---	---	---	
				DOWN	Z3DOWN<CR>	Z380<CR>	X	X	X	---	---	---	---	---	
		**:00 to 98 by ASCII , 80=0dB, 00=---(MIN)		**	Z380<CR>	<-	X	X	X	---	---	---	---	---	
		Refer to Volume CMD sheet													
	Mute	ZONE3 OUTPUT MUTE ON/OFF change	Z3MU	ON	Z3MUON<CR>	<-	X	X	X	---	---	---	---	---	
				OFF	Z3MUOFF<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3MU Status		?	Z3MU?<CR>		X	X	X	---	---	---	---	---	
	Quick Select	Z3 QUICK SELECT 1-5 MODE SELECT	Z3	QUICK1	Z3QUICK1<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK2	Z3QUICK2<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK3	Z3QUICK3<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK4	Z3QUICK4<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK5	Z3QUICK5<CR>	<-	X	X	X	---	---	---	---	---	
		Z3 QUICK SELECT 1-5 MODE MEMORY		QUICK1 MEMORY	Z3QUICK1 MEMORY<CR>	Z3QUICK0<CR>	X	X	X	---	---	---	---	---	
				QUICK2 MEMORY	Z3QUICK2 MEMORY<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK3 MEMORY	Z3QUICK3 MEMORY<CR>	<-	X	X	X	---	---	---	---	---	
				QUCIK4 MEMORY	Z3QUICK4 MEMORY<CR>	<-	X	X	X	---	---	---	---	---	
				QUICK5 MEMORY	Z3QUICK5 MEMORY<CR>	<-	X	X	X	---	---	---	---	---	
		Return MSQUICK Status		QUICK ?	Z3QUICK ?<CR>		X	X	X	---	---	---	---	---	
	Auto Standby	ZONE3 Auto Standby setting	Z3STBY	2H	Z3STBY2H<CR>	<-	X	X	X	---	---	---	---	---	
				4H	Z3STBY4H<CR>	<-	X	X	X	---	---	---	---	---	
				8H	Z3STBY8H<CR>	<-	X	X	X	---	---	---	---	---	
				OFF	Z3STBYOFF<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3STBY Status		?	Z3STBY?<CR>		X	X	X	---	---	---	---	---	
	Stereo/Mono	ZONE3 Channel setting	Z3CS	ST	Z3CSST<CR>	<-	X	X	X	---	---	---	---	---	
				MONO	Z3CSMONO<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3CS Status		?	Z3CS?<CR>		X	X	X	---	---	---	---	---	
	Front L Level	ZONE3 CHANNEL VOLUME UP/DOWN . direct change to **dB	Z3CV	FL UP	Z3CVFL UP<CR>	Z3CVFL 50<CR>	X	X	X	---	---	---	---	---	
		—FRONT Lch		FL DOWN	Z3CVFL DOWN<CR>	Z3CVFL 50<CR>	X	X	X	---	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		FL **	Z3CVFL 50<CR>	<-	X	X	X	---	---	---	---	---	
	Front R Level	ZONE3 CHANNEL VOLUME UP/DOWN . direct change to **dB		FR UP	Z3CVFR UP<CR>	Z3CVFR 50<CR>	X	X	X	---	---	---	---	---	
		—FRONT Rch		FR DOWN	Z3CVFR DOWN<CR>	Z3CVFR 50<CR>	X	X	X	---	---	---	---	---	
		**:38 to 62 by ASCII , 50=0dB		FR **	Z3CVFR 50<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3CV Status		?	Z3CV?<CR>	Z3CVFR 50<CR>	X	X	X	---	---	---	---	---	
	High Pass Filter	ZONE3 HPF ON/OFF	Z3HPF	ON	Z3HPFON<CR>	<-	X	X	X	---	---	---	---	---	
				OFF	Z3HPFOFF<CR>	<-	X	X	X	---	---	---	---	---	
		Return Z3HPF Status		?	Z3HPF?<CR>		X	X	X	---	---	---	---	---	
	Bass	ZONE3 BASS UP/DOWN . direct change to **dB	Z3PS	BAS UP	Z3PSBAS UP<CR>	Z3PSBAS 50<CR>	X	X	X	---	---	---	---	---	
		**:00 to 99 by ASCII . 00=0dB from -10 to +10/40 to 60)		BAS DOWN	Z3PSBAS DOWN<CR>	Z3PSBAS 50<CR>	X	X	X	---	---	---	---	---	
				BAS **	Z3PSBAS 50<CR>		X	X	X	---	---	---	---	---	
		Return Z3PSBAS Status		BAS ?	Z3PSBAS ?<CR>		X	X	X	---	---	---	---	---	
	Treble	ZONE3 TREBLE UP/DOWN . direct change to **dB		TRE UP	Z3PSTRE UP<CR>	Z3PSTRE 50<CR>	X	X	X	---	---	---	---	---	
		**:00 to 99 by ASCII . 00=0dB from -10 to +10/40 to 60)		TRE DOWN	Z3PSTRE DOWN<CR>	Z3PSTRE 50<CR>	X	X	X	---	---	---	---	---	
				TRE **	Z3PSTRE 50<CR>		X	X	X	---	---	---	---	---	
		Return Z3PSTRE Status		TRE ?	Z3PSTRE ?<CR>		X	X	X	---	---	---	---	---	
	Sleep	ZONE3 SLEEP TIMER setting	Z3SLP	OFF	Z3SLPOFF<CR>	<-	X	X	X	---	---	---	---	---	
		***:001 to 120 by ASCII , 010=10min		***	Z3SLP120<CR>	<-	X	X	X	---	---	---	---	---	
		Return SLP Status		?	Z3SLP?<CR>		X	X	X	---	---	---	---	---	

Notes: Specifications subject to change without prior notice.

X	= Available command for the model
---	= NOT available command for the model

@1
@2
@3 : North America model only
@4: Europe/Japan/China model Only
@5: North America & Europe model Only
@6: Europe model Only
@7: Japan model Only
@8
@9 : Requires to be set "Amp assign = Front B"