**Technical Documentation** 

# Integrated Serial Communication Protocol for AV Receiver

Version 1.00, 31 October 2012

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**Revision History:** 

Version	Date	Contents	
1.00	31 October 2012	first edition PA-R100/200,AG-D500	

# Note:

Model	Date	Contents

## Version Check:

To check the version on the unit, please follow the procedure below.

- 1. Turn on the unit.
- 2. Press DISPLAY + STANDBY/ON buttons.

The version number shows the date (yymdd) in which the firmware was created. Here, X, Y and Z in month mean Oct, Nov and Dec respectively.

## 1. Protocol Overview

ISCP (Integrated Serial Control Protocol) consists of three command characters and parameter character(s) of variable length.



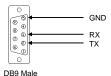
## 1.1. ISCP over RS-232C

#### **Hardware Overview**

3wire RS-232C protocol 9600 baud / 8 data bits / 1 stop bits / no parity / no flow control

9 pin female D type connector (pin 2 is transmit,pin 3 is receive,pin 5 is signal ground)

Use a straight-thru cable to connect to your PC.

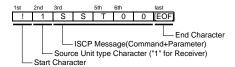


#### **Software Overview**

Controller -> Device Message Example (Power On)



#### Device -> Controller Message Exmaple (Power Status = Standby)



# **Special Characters**

[CR] [LF] Carriage Return Line Feed ASCII Code 0x0D ASCII Code 0x0A ASCII Code 0x1A [EOF] End of File

# 1.2. ISCP over Ethernet (eISCP)

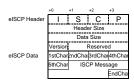
\*Protocol is TCP(Transmission Control Protocol)

\*Destination Port Number is 60128(default)
Please set the destination port number by the setup menu in the Receiver and turn off to stand-by once, If you need to change it from default.

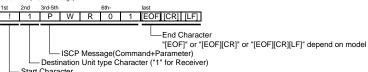
\*Receiver MAC Address

Please confirm the Receiver MAC address on the setup menu in the Receiver.

\*eISCP Packet Format



eISCP Data(=ISCP Message)



Header Size is the size of elSCP Header. In order to extend header size in the future, it is necessary to take it into calculation. Now, it is 0x00000010. (\*\*BIGENDIAN\*\*) Data Size is the size of the elSCP Data. (\*\*BIGENDIAN\*\*)

Version is ISCP version. Now, it is 0x01.
Reserved is used extending it in the future. Now, it is 0x000000.
Unit Type is the model category ID. The Receiver is "1".

Note: The communication between server and client should hold one connection continuously. Unless it has connected continuously, the notice of status cannot be performed from a client.

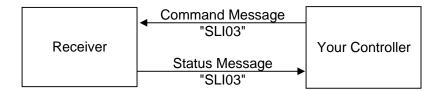
Note: The number of the connections who can connect with a client is up to five. Note: The Interval Time Receiving the message needs to take more than 50msec.

# 2. COMMUNICATION FLOW DESCRIPTION

Receiver uses Question, Command and Notification messages to have to communicate with a given Controller. This protocol is designed for point to point communication between a third party controller and Receiver.

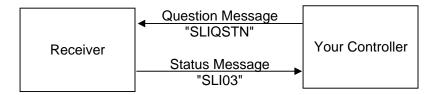
# 2.1. Command Communication

Send a "Command Message" to Receiver from the Controller for control of the device. Unsolicited feedback - If Receiver's status changes , a "Status Message" is sent to the Controller. Receiver will respond with a status message within 50msec. If Receiver does not respond within 50msec, the communication has failed.



# 2.2. Question Communication

Send a "Question Message" to Receiver from the Controller to get the current system status. Receiver will respond with a status message.



# 2.3. Event Notice Communication

If the system status changes, the Receiver will notify the Controller by sending the new current status.



#### 3. Auto Detect Protocol for ISCP over Ethernet (after 2011 AV Receiver model)

If it is necessary to detect the device that corresponds to ISCP automatically, it is possible to detect it according to the following procedures.

#### 3.1. Broadcast Device Search Message

Broadcast a "Device Search Message" to LAN by UDP ( Port Number is 60128 )



## 3.2. Response Message from Device

The device that corresponds to "ISCP" transmits the response message.



 ex.) Device is AV Receiver TX-NR609, North American model, and ISCP Port number is 60128 !1ECNPA-R200/60128/DX

1: AV Receiver or Stereo Receiver PA-R200 (variable length [ max. 64 letters ]) 60128

DX: North American mode XX: European or Asian model JJ: Japanese model (fixed 2 characters) 0009B0\*\*\*\*\*\* ex.) Mac Address (variable length [ max. 12 letters ] )

## 4. AMX DDDP

#### 4.1 Serial Control (RS-232C)



<-SDKClass=Receiver>
<-Make=\*\*\*\*\*>: TASCAM
<-Model=\*\*\*\*\*>: Model Name
<-Revision=1.0.0>

## 4.2 IP Control (Ethernet)



Main-relate	d Command Support List				
		PA-R100	PA-R200	AG-D500	
Code	Means				
	m Power Command			I	
"00" "01"	sets System Standby sets System On	Yes Yes	Yes Yes	Yes Yes	-
"QSTN"	gets the System Power Status	Yes	Yes	Yes	
	Muting Command				
"00"	sets Audio Muting Off	Yes	Yes	Yes	
"01"	sets Audio Muting On	Yes	Yes	Yes	
"TG"	sets Audio Muting Wrap-Around	Yes Yes	Yes Yes	Yes Yes	
"QSTN"	gets the Audio Muting State - Speaker A/B Command	res	res	res	
"00"	sets Speaker Off	No	No	No	
"01"	sets Speaker On	No	No	No	
"UP"	sets Speaker Switch Wrap-Around	No	No	No	
"QSTN"	gets the Speaker State	No	No	No	
*1:SPA=MAIN A/	SPB=MAIN B SPB=Front B(Exclucive use)				
	er Layout Command				
"SB"	sets SurrBack Speaker	No	No	No	
"FH"	sets Front High Speaker / SurrBack+Front High Speakers	No	No	No	
"FW"	sets Front Wide Speaker / SurrBack+Front Wide Speakers	No	No	No	
"HW"	sets Front High+Front Wide Speakers	No	No	No	
"UP"	sets Speaker Switch Wrap-Around	No	No	No	<b></b>
"QSTN"	gets the Speaker State r Volume Command	No	No	No	
"00"-"64"	Volume Level 0 – 100 (In hexadecimal representation)	No	Voc	No	
"00"-"50"	Volume Level 0 – 80 (In hexadecimal representation)	Yes	Yes No	Yes	
"UP"	sets Volume Level Up	Yes	Yes	Yes	
"DOWN"	sets Volume Level Down	Yes	Yes	Yes	
"UP1"	sets Volume Level Up 1dB Step	No	No	No	
"DOWN1" "QSTN"	sets Volume Level Down 1dB Step	No	No	No	<u> </u>
	gets the Volume Level Front) Command	Yes	Yes	Yes	
"Bxx"	Front Bass (xx is "-A""00""+A"[-100+10 2 step]	Yes	Yes	Yes	
"Txx"	Front Treble (xx is "-A""00""+A"[-100+10 2 step]	Yes	Yes	Yes	
"BUP"	sets Front Bass up(2 step)	Yes	Yes	Yes	
"BDOWN"	sets Front Bass down(2 step)	Yes	Yes	Yes	
"TUP"	sets Front Treble up(2 step)	Yes	Yes	Yes	
"TDOWN" "QSTN"	sets Front Treble down(2 step) gets Front Tone ("BxxTxx")	Yes Yes	Yes Yes	Yes Yes	<b>-</b>
	Front Wide) Command	168	168	162	L
"Bxx"	Front Wide Bass (xx is "-A""00""+A"[-100+10 2 step	No	No	No	
"Txx"	Front Wide Treble (xx is "-A""00""+A"[-100+10 2 std		No	No	
"BUP"	sets Front Wide Bass up(2 step)	No	No	No	
"BDOWN"	sets Front Wide Bass down(2 step)	No	No	No	
"TUP"	sets Front Wide Treble up(2 step)	No	No	No	
"TDOWN" "QSTN"	sets Front Wide Treble down(2 step) gets Front Wide Tone ("BxxTxx")	No No	No No	No No	
	Front High) Command	140		140	
"Bxx"	Front High Bass (xx is "-A""00""+A"[-100+10 2 step	No	No	No	
"Txx"	Front High Treble (xx is "-A""00""+A"[-100+10 2 ste	No	No	No	
"BUP"	sets Front High Bass up(2 step)	No	No	No	
"BDOWN" "TUP"	sets Front High Bass down(2 step)	No	No	No	
"TUP" "TDOWN"	sets Front High Treble up(2 step) sets Front High Treble down(2 step)	No No	No No	No No	
"QSTN"	gets Front High Tone ("BxxTxx")	No	No	No	
	Center) Command		, ,		
"Bxx"	Center Bass (xx is "-A""00""+A"[-100+10 2 step]	No	No	No	
"Txx"	Center Treble (xx is "-A""00""+A"[-100+10 2 step]	No	No	No	
"BUP"	sets Center Bass up(2 step)	No	No	No	_ <u>-</u>
"BDOWN"	sets Center Bass down(2 step)	No	No	No	<u> </u>
"TUP"	sets Center Treble up(2 step)	No	No	No	L

TSR' - Tone(Surround) Command   No	"TDOWN"	sets Center Treble down(2 step)	No	No	No	1
"TSR" - Tone(Surround) Command  "Bx"   Surround Bass (xx is "A"."00"."+A[-100+10.2 step]   No						
"Bbx"   Surround Bass (xx is "A""00"*+A".1-100+10 2 step)   No   No   No   No   No   "TUP"   sets Surround Bass by (2 step)   No   No   No   No   No   No   No   N			INO	INU	INU	l
"TXx"   Surround Treble (xx is "-A""00"*A*(1-100+10.2 stet)   No		Currey and Deep (vy. in    A	Na	No	No	l
"BUP" sets Surround Bass dup(2 step) No		Surround Bass (xx is -A 00 +A [-100+10 2 step]				
"BDOWN" sets Surround Bass down(2 step) No		cote Surround Race un/2 etch				
"TUP" sets Surround Treble up(2 step) No						
"TDOWN" sets Surround Tenbe down/2 step) No						
"GSTN"   Gets Surround Tone ("ExxTxx")   No   No   No   No   "TSB" - Tone(Surround Back) Command  "BX"   Surround Back Bass (xx is "-A", "00", "+A"[-100, +10.2]   No   No   No   "BUP"   Sets Surround Back Rass (xx is "-A", "00", "+A"[-100, +10.2]   No   No   No   "BUP"   Sets Surround Back Bass (xx is "-A", "00", "+A"[-100, +10.2]   No   No   No   "BDOWN"   Sets Surround Back Troble dworf(2 step)   No   No   No   "BOWN"   Sets Surround Back Troble dworf(2 step)   No   No   No   "TDP"   Sets Surround Back Troble dworf(2 step)   No   No   No   "GSTN"   Gets Surround Back Troble dworf(2 step)   No   No   No   "TSW" - Tone(Sutbwoofer) Command "Bxx"   Subwoofer Bass (xx is "-A", "00", "+A"[-100+10.2 step   "BX   Subwoofer Bass (xx is						
"TSB" - Tone(Surround Back) Command  "Bx"   Surround Back Rass (xs is "A""00""+A"[-100+10.2] No						
"Bbx"   Surround Back Tasle (xx is "-A""00""+A"[-100+10.2]   No			NO	INO	NO	
"BUP" sets Surround Back Tareble (xx is '-A''00""+A"[-100+10] No						1
"BUP" sets Surround Back Bass up(2 step) No						
**BDOWN**   sets Surround Back Teble up(2 step)						
"TUP"   sets Surround Back Treble up(2 step)						
"TDOWN" sets Surround Back Treble down(2 step) No No No No No No No 'OSTN' gets Surround Back Trohe ("BxxTxx") No						
"CSTN"   gets Surround Back Tone ("BxxTxx")   No						
"TSW" - Tone(Subwoofer) Command "Bx" - Subwoofer Bass (xx is "-A""00""+A"[-100+10 2 stet] No						
"BLC"   Subwoofer Bass (xx is "-A"."-00""+A"[-100+10 2 stef		gets Surround Back Tone ("BXXTXX")	No	No	No	
"BDDWN" sets Subwoofer Bass up(2 step) No						
BDOWN    sets Subwoofer Bass down(2 step)						
"SLP" - Sleep Set Command "01"-"5A" sets Sleep Time 1 - 90min (In hexadecimal representation						
"SLP" - Sleep Set Command "01"-"5A" sets Sleep Time 1 - 90min (In hexadecimal representation						
"OFF" sets Sleep Time 1 - 90min ( In hexadecimal representation	"QSTN"	gets Subwoofer Tone ("BxxTxx")	No	No	No	
"OI"-"SA" sets Sleep Time 1 - 90min ( In hexadecimal representation						
"OI"-"SA" sets Sleep Time 1 - 90min (In hexadecimal representation						
"OFF" sets Sleep Time Wrap-Around UP			Yes	Yes	Yes	
"SLC" - Speaker Level Calibration Command  "TEST" TEST Key Yes Yes Yes Yes 'OFF" Sets TEST TONE OFF Yes Yes Yes Yes Yes 'CH SEL Key Yes		sets Sleep Time Off	Yes	Yes	Yes	
"SLC" - Speaker Level Calibration Command  "TEST" TEST Key Yes Yes Yes Yes Yes 'Yes 'Yes 'Yes 'Yes	"UP"	sets Sleep Time Wrap-Around UP	Yes	Yes	Yes	
"TEST" TEST Key Yes Yes Yes Yes Yes 'OFF" Sets TEST TONE OFF Yes Yes Yes Yes Yes 'UP" LEVEL + Key Yes Yes Yes Yes Yes Yes 'DOWN" LEVEL - KEY Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye			Yes	Yes	Yes	
"TEST" TEST Key Yes Yes Yes Yes Yes 'OFF" Sets TEST TONE OFF Yes Yes Yes Yes Yes 'UP" LEVEL + Key Yes Yes Yes Yes Yes Yes 'DOWN" LEVEL - KEY Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	"SLC" - Speake	er Level Calibration Command				
"OFF"			Yes	Yes	Yes	
"CHSEL" CH SEL Key "UP" LEVEL + Key "DOWN" LEVEL - KEY "SWL" - Subwoofer (temporary) Level Command "-;-";00"-"+C" sets Subwoofer Level - 15dB - 0dB - +12dB Yes Yes Yes Yes "DOWN" LEVEL - KEY "UP" LEVEL + Key "SWL" - Subwoofer (temporary) Level Command "-;-";00"-"+C" sets Subwoofer Level - 15dB - 0dB - +12dB Yes Yes Yes Yes Yes Yes "DOWN" LEVEL - KEY "UP" LEVEL - KEY "QSTN" gets the Subwoofer Level Yes Yes Yes Yes Yes Yes "Yes "Yes Yes Yes Yes "Yes "			Yes			
"UP" LEVEL + Key  "DOWN" LEVEL - KEY  "SWL" - Subwoofer (temporary) Level Command  "-F"."00"."+C" sets Subwoofer Level - 15dB - 0dB - + 12dB  "UP" LEVEL + Key  "UP" LEVEL + Key  "OWN" LEVEL - KEY  "QSTN" gets the Subwoofer Level  "CTL" - Center (temporary) Level Command  "-C"."00"."+C" sets Center Level - 12dB - 0dB - + 12dB  "C"-"00"."+C" sets Center Level - 12dB - 0dB - + 12dB  "UP" LEVEL + Key  "UP" LEVEL + Key  "UP" LEVEL - KEY  "OSTN" gets the Subwoofer Level  "OSTN" Display Information Command  "00" Display Program Format  "00" Display Digital Input Position  "00" Display Digital Format Position  "00" Display Digital Format Position  "00" Display Bass Level  "04" Display Treble Level  "04" Display Treble Level  "00" sets Selector + Volume Display Mode  "00" sets Selector + Listening Mode Display Mode  "00" Sets Selector + Listening Mode Display Mode  "01" sets Selector + Listening Mode Display Mode  "02" Display Digital Format (temporary display)  "10" Sets Display Mode Wrap-Around Up  "03" Display Mode Wrap-Around Up  "04" Yes Yes Yes  "10" Sets Dismer Level "Bright"  "10" Sets Dimmer Level "Bright & LED OFF"  "10" No No No  "10" Sets Dimmer Level "Bright & LED OFF"  "			Yes	Yes	Yes	
"BWL" - Subwoofer (temporary) Level Command  "F"-"00"-"+C" sets Subwoofer Level -15dB - 0dB - +12dB	"UP"		Yes	Yes	Yes	
"SWL" - Subwoofer (temporary) Level Command  "-F"-"00"-"+C" sets Subwoofer Level -15dB - 0dB - +12dB	"DOWN"		Yes	Yes	Yes	
"-F"-"00"-"+C"   sets Subwoofer Level -15dB - 0dB - +12dB   Yes   Yes   Yes   Yes   "UP"   LEVEL + Key   Yes   Yes	"SWL" - Subwo					L
"UP" LEVEL + Key			Yes	Yes	Yes	1
"DOWN" LEVEL – KEY						
"QSTN" gets the Subwoofer Level Yes Yes Yes STETL" - Center (temporary) Level Command  "-C"-"00"-"+C" sets Center Level - 12dB - 0dB - +12dB Yes Yes Yes Yes Yes "UP" LEVEL + Key Yes Yes Yes Yes Yes "DOWN" LEVEL - KEY Yes Yes Yes Yes Yes Yes "OSTN" gets the Subwoofer Level Yes Yes Yes Yes Yes "OSTN" gets the Subwoofer Level Yes Yes Yes Yes Yes "DIFF" - Display Information Command  "00" Display Program Format No						
"CTL" - Center (temporary) Level Command  "-C"-"00"-"+C" sets Center Level -12dB - 0dB - +12dB						
"-C"-"00"-"+C" sets Center Level -12dB - 0dB - +12dB						
"UP"         LEVEL + Key         Yes         Yes         Yes           "DOWN"         LEVEL - KEY         Yes         Yes         Yes           "QSTN"         gets the Subwoofer Level         Yes         Yes         Yes           "DIF" - Display Information Command         "O0"         Display Program Format         No         No         No           "01"         Display Digital Input Position         No         No         No         No           "02"         Display Digital Format Position         No         No         No         No           "02"         Display Digital Format Position         No         No         No         No           "03"         Display Digital Format Position         No         No         No         No           "04"         Display Digital Format Position         No         No         No         No           "04"         Display Mode Command         Tomatomatomatomatomatomatomatomatomatomat			Voc	Voc	Voc	
"DOWN" LEVEL - KEY  "QSTN" gets the Subwoofer Level Yes Yes Yes Yes Polifi" - Display Information Command  "00" Display Program Format No						
"QSTN" gets the Subwoofer Level Yes Yes Yes   "DIF" - Display Information Command   "00" Display Program Format						
"DIF" - Display Information Command  "00" Display Program Format No						
"00" Display Program Format No			168	168	168	<u> </u>
"01" Display Digital Input Position No						1
"02" Display Digital Format Position No						
"03" Display Bass Level No						
"04" Display Treble Level No No No No No No No "DIF" - Display Mode Command  "00" sets Selector + Volume Display Mode Yes Yes Yes Yes "01" sets Selector + Listening Mode Display Mode No						
"DIF" - Display Mode Command  "00" sets Selector + Volume Display Mode Yes Yes Yes Yes "01" sets Selector + Listening Mode Display Mode No						
"00" sets Selector + Volume Display Mode Yes Yes Yes Yes "01" sets Selector + Listening Mode Display Mode No			No	No	No	<u> </u>
"01" sets Selector + Listening Mode Display Mode No No No No "02" Display Digital Format(temporary display) Yes Yes Yes Yes "03" Display Video Format(temporary display) Yes Yes Yes Yes Yes "TG" sets Display Mode Wrap-Around Up Yes Yes Yes Yes Yes "QSTN" gets The Display Mode Yap-Around Up Yes						
"02" Display Digital Format(temporary display)  "03" Display Video Format(temporary display)  "TG" sets Display Mode Wrap-Around Up  "QSTN" gets The Display Mode  "1: Parameter Character is "UP"  "DIM" - Dimmer Level Command  "00" sets Dimmer Level "Bright" Yes Yes Yes  "01" sets Dimmer Level "Dim" Yes Yes Yes  "01" sets Dimmer Level "Dim" Yes Yes Yes  "02" sets Dimmer Level "Dark" Yes Yes Yes  "03" sets Dimmer Level "Shut-Off" No No No No  "08" sets Dimmer Level "Bright & LED OFF" No No No No  "DIM" sets Dimmer Level Wrap-Around Up Yes Yes Yes  "QSTN" gets The Dimmer Level Yes Yes Yes Yes  "QSTN" gets The Dimmer Level Yes				Yes		
"03"   Display Video Format(temporary display)   Yes   Yes   Yes   Yes   TG"   sets Display Mode Wrap-Around Up   Yes			No	No	No	
"TG" sets Display Mode Wrap-Around Up Yes Yes Yes Yes "QSTN" gets The Display Mode Yes Yes Yes Yes Yes Yes '1: Parameter Character is "UP"  "DIM" - Dimmer Level Command  "00" sets Dimmer Level "Bright" Yes Yes Yes Yes "01" sets Dimmer Level "Dim" Yes Yes Yes Yes "02" sets Dimmer Level "Dark" Yes Yes Yes Yes "03" sets Dimmer Level "Dark" Yes Yes Yes Yes "03" sets Dimmer Level "Shut-Off" No No No No "08" sets Dimmer Level "Bright & LED OFF" No No No No No "DIM" sets Dimmer Level Wrap-Around Up Yes Yes Yes Yes "QSTN" gets The Dimmer Level Yes Yes Yes Yes Yes "OSD" - Setup Operation Command						
"QSTN"         gets The Display Mode         Yes         Yes         Yes           *1: Parameter Character is "UP"         "DIM" - Dimmer Level Command         "O"         sets Dimmer Level "Bright"         Yes         Yes         Yes           "00"         sets Dimmer Level "Dim"         Yes         Yes         Yes         Yes           "01"         sets Dimmer Level "Dark"         Yes         Yes <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
*1: Parameter Character is "UP"  "DIM" - Dimmer Level Command  "00"						
"DIM" - Dimmer Level Command           "00"         sets Dimmer Level "Bright"         Yes         Yes         Yes           "01"         sets Dimmer Level "Dim"         Yes         Yes         Yes           "02"         sets Dimmer Level "Dark"         Yes         Yes         Yes           "03"         sets Dimmer Level "Shut-Off"         No         No         No         No           "08"         sets Dimmer Level "Bright & LED OFF"         No         No         No         No           "DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command			Yes	Yes	Yes	
"00"   sets Dimmer Level "Bright"   Yes   Yes   Yes   Yes   "01"   sets Dimmer Level "Dim"   Yes   Yes   Yes   Yes   Yes   "02"   sets Dimmer Level "Dark"   Yes   Yes   Yes   Yes   Yes   "03"   sets Dimmer Level "Shut-Off"   No   No   No   No   No   No   No   N						
"00"   sets Dimmer Level "Bright"   Yes   Yes   Yes   Yes   "01"   sets Dimmer Level "Dim"   Yes   Yes   Yes   Yes   Yes   "02"   sets Dimmer Level "Dark"   Yes   Yes   Yes   Yes   Yes   "03"   sets Dimmer Level "Shut-Off"   No   No   No   No   No   No   No   N	"DIM" - Dimme	r Level Command				
"01"         sets Dimmer Level "Dim"         Yes         Yes         Yes           "02"         sets Dimmer Level "Dark"         Yes         Yes         Yes           "03"         sets Dimmer Level "Shut-Off"         No         No         No         No           "08"         sets Dimmer Level "Bright & LED OFF"         No         No         No         No           "DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command			Yes	Yes	Yes	
"02"         sets Dimmer Level "Dark"         Yes         Yes         Yes           "03"         sets Dimmer Level "Shut-Off"         No         No         No         No           "08"         sets Dimmer Level "Bright & LED OFF"         No         No         No         No           "DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command						
"03"         sets Dimmer Level "Shut-Off"         No         No         No           "08"         sets Dimmer Level "Bright & LED OFF"         No         No         No           "DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command						
"08"         sets Dimmer Level "Bright & LED OFF"         No         No         No           "DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command						
"DIM"         sets Dimmer Level Wrap-Around Up         Yes         Yes         Yes           "QSTN"         gets The Dimmer Level         Yes         Yes         Yes           "OSD" - Setup Operation Command						
"QSTN" gets The Dimmer Level Yes Yes Yes "OSD" - Setup Operation Command						
"OSD" - Setup Operation Command						
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	I			1	
"UP"	Up Key	Yes	Yes	Yes	
"DOWN"	Down Key	Yes	Yes	Yes	
"RIGHT"	Right Key	Yes	Yes	Yes	
"LEFT" "ENTER"	Left Key Enter Key	Yes Yes	Yes Yes	Yes Yes	
"EXIT"	Exit Key	Yes	Yes	Yes	
"AUDIO"	Audio Adjust Key	No	No	No	
"VIDEO"	Video Adjust Key	No	No	No	
"HOME"	Home Key	Yes	Yes	Yes	
"QUICK"	Quick Setup Key	Yes	Yes	Yes	
	ry Setup Command				
"STR"	stores memory	Yes	Yes	Yes	
"RCL"	recalls memory	Yes	Yes	Yes	
"LOCK"	locks memory	Yes	Yes	Yes	
	unlocks memory	Yes	Yes	Yes	
	nfomation Command			ı	
	Infomation of Audio(Same Immediate Display ',' is separate	Yes	Yes	Yes	
	gets Infomation of Audio	Yes	Yes	Yes	
when you send "D	IF02", receiver will return this response.				
	fomation Command				
	infomation of Video(Same Immediate Display ',' is separate	Yes	Yes	Yes	
"QSTN"	gets Infomation of Video	Yes	Yes	Yes	
	IF03", receiver will return this response.				
	elector Command				
"00"	sets VIDEO1 VCR/DVR STB/DVR	No	Yes	No	
"01"	sets VIDEO2 CBL/SAT	Yes	Yes	Yes	
"02"	sets VIDEO3 GAME/TV GAME GAME1	Yes	Yes	Yes	
"03"	sets VIDEO4 AUX1(AUX)	Yes	Yes	Yes	
"04"	sets VIDEO5 AUX2 GAME2	No	No	No	
"05"	sets VIDEO6 PC	Yes	Yes	Yes	
"06"	sets VIDEO7	No	No	No	
"07"	Hidden1 EXTRA1	Yes	Yes	Yes	
"08"	Hidden2 EXTRA2	Yes	Yes	Yes	
"09"	Hidden3 EXTRA3	Yes	Yes	No	
"10"	sets DVD BD/DVD	Yes	Yes	Yes	
"20"	sets TAPE(1) TV/TAPE	No	No	No	
"21"	sets TAPE2	No	No	No	
"22"	sets PHONO	No	No	No	
"23"	sets CD TV/CD	Yes	Yes	Yes	
"24"	sets FM	Yes	Yes	Yes	
"25"	sets AM	Yes	Yes	Yes	
"26"	sets TUNER	Yes	Yes	Yes	
"27"	sets MUSIC SERVER P4S DLNA*2	Yes*2	Yes*2	Yes*2	
"28" "29"	sets INTERNET RADIO iRadio Favorite*3 sets USB/USB(Front)	Yes*3 Yes	Yes*3 Yes	Yes*3 Yes	
"2A"	sets USB(Rear)	Yes	Yes	Yes	
"2B"	sets NETWORK NET	Yes	Yes	Yes	
"2C"	sets USB(toggle)	Yes	Yes	Yes	
"2D"	sets Aiplay	No	No	No	
"40"	sets Universal PORT	No	No	No	
"30"	sets MULTI CH	No	No	No	
"31"	sets XM*1	No	No	No	
"32"	sets SIRIUS*1	No	No	No	
"33"	sets DAB *5	No	No	No	
"UP"	sets Selector Position Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Selector Position Wrap-Around Down	Yes	Yes	Yes	
"QSTN"	gets The Selector Position	Yes	Yes	Yes	
	XM/SIRIUS Model				
	(TX-NR515AE/616AE/818AE)				
	JT Selector Command				
"00"	sets VIDEO1	No	No	No	
"01"	sets VIDEO2	No	No	No	
"02"	sets VIDEO3	No	No	No	
"03"	sets VIDEO4	No	No	No	
"04"	sets VIDEO5	No	No	No	
"05"	sets VIDEO6	No	No	No	
"06"	sets VIDEO7	No	No	No	
"10"	sets DVD	No	No	No	
"20"	sets TAPE(1)	No	No	No	
"21"	sets TAPE2	No	No	No	L

"23" se "24" se "26" se "26" se "26" se "27" se "30" se "31" se "31" se "31" se "80" se "80" se "80" se "031" se "01" se "01" se "02" se "03" se "04" se "05" se "05" se "07" se	ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No N	No N	No N	
"24" Se "25" Se "26" Se "27" Se "28" Se "30" Se "31" Se "31" Se "80" Se "80" Se "88" Se "80" Se "88" Se "98" Se "00" Se "01" Se "02" Se "03" Se "04" Se "05" Se "05" Se "05" Se "05" Se "07" Se "08" Se "09" Se "01" Se	ets FM ets AM ets TUNER ets MUSIC SERVER ets MULTI CH ets XM ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Status ger C Command	No N	No N	No N	
"25" Se "26" Se "26" Se "27" Se "28" Se "30" Se "31" Se "80" Se "80" Se "80" Se "80" Se "0STN" Se "00" Se "01" Se "02" Se "02" Se "02" Se "05" Se "06" Se "07" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08" Se "08" Se "08" Se "08" Se "09" Se "09" Se "01" Se "08" Se "09" Se "09" Se "01" Se "08TN" Ge	ets AM ets TUNER ets MUSIC SERVER ets INTERNET RADIO ets MULTI CH ets XM ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets ANGC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No N	No N	No N	
"26" Se "27" Se "28" Se "30" Se "31" Se "31" Se "80" Se "80" Se "80" Se "80" Se "1:REC/ZONE3 "SLA" - Audio Se "00" Se "01" Se "02" Se "03" Se "04" Se "05" Se "06" Se "07" Se "07" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08" Se "08" Se "08" Se "09" Se "109" Se "10	ets TUNER ets MUSIC SERVER ets MUSIC SERVER ets MUSIC SERVER ets MULTI CH ets MULTI CH ets SOFF ets SOFF ets SOURCE ets The Selector Position   elector Command ets AUTO ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets AUGO ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	No N	No N	No N	
"27"   Se	ets MUSIC SERVER ets INTERNET RADIO ets MULTI CH ets SOFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger B Status  ger C Command ets 12V Trigger B Status  ger C Command	No N	No N	No N	
"28" Se "30" Se "31" Se "31" Se "7F" Se "80" Se "0STN" Ge "00" Se "01" Se "03" Se "04" Se "05" Se "06" Se "07" Se "06" Se "07" Se "06" Se "07" Se "07" Se "07" Se "07" Se "08" Se "07" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08" Se "07" Se "08"	ets INTERNET RADIO ets MULTI CH ets XM ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets Addio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A Off ets 12V Trigger B Status ger C Command	No Yes No Yes	No Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No N	
"30" Se "31" Se "31" Se "80" Se "80" Se "80" Se "SEA" - Audio Se "100" Se "01" Se "02" Se "03" Se "04" Se "06" Se "06" Se "07" Se "08"	ets MULTI CH ets XM ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets Addio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No Yes No Yes	No Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No Yes No Yes Yes No Yes Yes No Yes Yes No No No No No	
"31" Se "7F" Se "80" Se "QSTN" Ge "1:REC/ZONE3 "SLA" - Audio Se "00" Se "01" Se "02" Se "03" Se "04" Se "05" Se "06" Se "07" Se "08" S	ets XM ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B Status  ger C Command	No No No No No No No No No Yes No Yes	No No No No No No No No Yes No Yes	No No No No No No No No No Yes No Yes Yes No Yes Yes No No No No No	
"7F" See     "80" See     "80" See     "QSTN"	ets OFF ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No No No No No No No No No Yes No Yes	No No No No No No No Yes No Yes	No No No No No No No Yes No Yes Yes No Yes Yes No No No No No No	
"80" se "QSTN" ge *1:REC/ZONE3  "SLA" - Audio Se "00" se "01" se "02" se "03" se "04" se "05" se "06" se "07" se "07" se "08TN" ge "TGA" - 12V Trig "00" se "QSTN" ge "QSTN" ge "TGB" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "01" se "01" se "05" se "05" se "06" se "07" se "07" se "08TN" ge "TGB" - 12V Trig "00" se "01" se "05TN" ge "TGC" - 12V Trig "00" se "05TN" ge "TGC" - 12V Trig	ets SOURCE ets The Selector Position  elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No No No No No Yes No Yes	No No No No Yes No Yes	No No No No Yes Yes Yes Yes Yes No	
"QSTN"   ge *1:REC/ZONE3 "SLA" - Audio Se "00"   se "01"   se "02"   se "03"   se "04"   se "05"   se "06"   se "07"   se "UP"   se "QSTN"   ge "QSTN"   ge "GSTN"   ge "GSTN"   ge "TGC" - 12V Trig "00"   se "01"   se "GSTN"   ge "TGC" - 12V Trig "00"   se "01"   se "GSTN"   ge "GSTN"   ge "GSTN"   ge "TGC" - 12V Trig "00"   se "01"   se "GSTN"   ge "TGC" - 12V Trig "00"   se "GSTN"   ge "TGC" - 12V Trig	ets The Selector Position  elector Command  ets AUTO  ets AUTO  ets MULTI-CHANNEL  ets ANALOG  ets iLINK  ets HDMI  ets COAX/OPT  ets BALANCE  ets Audio Selector Wrap-Around Up  ets The Audio Selector Status  ger A Command  ets 12V Trigger A Off  ets 12V Trigger A Status  ger B Command  ets 12V Trigger B Off  ets 12V Trigger B Status  ger C Command	No No No Yes Yes No Yes	No No No No Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No Yes No Yes Yes No Yes Yes No Yes Yes No No No No	
*1:REC/ZONE3  "SLA" - Audio Se  "00" Se  "01" Se  "02" Se  "03" Se  "05" Se  "06" Se  "07" Se  "08TN" Ge  "07" Se  "08TO" Se	elector Command ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Status ger B Command ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No No Yes No Yes Yes No Yes	No No Yes No Yes Yes No Yes	No No Yes No Yes Yes No Yes Yes No Yes No Yes Yes No No No	
"SLA" - Audio Se  "00"   Se  "01"   Se  "02"   Se  "03"   Se  "04"   Se  "05"   Se  "06"   Se  "07"   Se  "07"   Se  "07"   Se  "08TN"   Ge  "01"   Se	ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No Yes No Yes No Yes No Yes	No Yes No Yes No Yes	No Yes No Yes Yes No Yes No Yes No Yes Yes No Yes Yos No No No	
"00" Se "01" Se "02" Se "03" Se "04" Se "05" Se "06" Se "07" Se "UP" Se "QSTN" Ge "01" Se "QSTN" Ge "GSTN" Ge "TGB" - 12V Trig "00" Se "01" Se "GSTN" Ge "TGC" - 12V Trig "00" Se "01" Se "GSTN" Ge "TGC" - 12V Trig "00" Se "01" Se "TGC" - 12V Trig "00" Se "01" Se "GSTN" Ge "TGC" - 12V Trig	ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No Yes No Yes No Yes No Yes	No Yes No Yes No Yes	No Yes No Yes Yes No Yes No Yes No Yes Yes No Yes Yos No No No	
"00"   Se "01"   Se "02"   Se "03"   Se "04"   Se "05"   Se "06"   Se "07"   Se "07"   Se "08"   Se "07"   Se "08"   Se "07"   Se "08"	ets AUTO ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B On ets 12V Trigger B Status ger C Command	No Yes No Yes No Yes No Yes	No Yes No Yes No Yes	No Yes No Yes Yes No Yes No Yes No Yes Yes No Yes Yos No No No	
"01" se "02" se "03" se "04" se "05" se "06" se "07" se "07" se "UP" se "QSTN" ge "01" se "QSTN" ge "OSTN" ge "OSTN" ge "TGB" - 12V Trig "00" se "01" se	ets MULTI-CHANNEL ets ANALOG ets ILINK ets HDMI ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes No Yes No Yes	Yes No Yes Yes No Yes	Yes No Yes Yes No Yes No Yes Yes No Yes Yes Yes No No No	
"02" se "03" se "04" se "05" se "06" se "07" se "UP" se "QSTN" ge "TGA" - 12V Trig "00" se "01" se	ets ANALOG ets iLINK ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B Status  ger C Command	No Yes Yes No Yes	No Yes Yes No Yes	No Yes Yes No Yes Yes Yes Yes No No No	
"04" se "05" se "06" se "07" se "UP" se "QSTN" ge "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "01" se "01" se "01" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se	ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	Yes Yes No Yes	Yes Yes No Yes	Yes Yes No Yes Yes Yes Yes No No No	
"04" se "05" se "06" se "07" se "UP" se "QSTN" ge "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "01" se "01" se "01" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se	ets HDMI ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	Yes No Yes	Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes Yes Yes Yes No No No	
"05" se "06" se "06" se "07" se "UP" se "QSTN" se "01" se "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "01" se "01" se "01" se "05TN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge	ets COAX/OPT ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Status  ger C Command	No Yes	No Yes Yes Yes Yes Yes Yes Yes Yes	No Yes Yes Yes No No No	
"06" se "07" se "UP" se "QSTN" ge "TGA" - 12V Trig "00" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "01" se "05TN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "GSTN" ge "TGC" - 12V Trig	ets BALANCE ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger B Status  ger B Command ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	No Yes	No Yes Yes Yes Yes Yes Yes Yes Yes	No Yes Yes Yes No No No	
"07" se "UP" se "QSTN" ge "TGA" - 12V Trig "00" se "01" se "QSTN" ge "TGB" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se	ets ARC ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes No No No	
"UP" se "QSTN" ge "TGA" - 12V Trig "00" se "QSTN" ge "TGB" - 12V Trig "00" se "QSTN" ge "TGC" - 12V Trig "00" se "QSTN" ge "10" se "QSTN" ge "10" se "QSTN" ge "10" se "QSTN" ge "10" se "QSTN" ge "QSTN" ge "QSTN" ge "QSTN" ge "QSTN" ge "QSTN" ge "YOS" - Video Ou	ets Audio Selector Wrap-Around Up ets The Audio Selector Status  ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status  ger B Command  ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B Status  ger C Command	Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes Yes	Yes Yes No No No	
"QSTN"   ge "TGA" - 12V Trig  "00"   se "01"   se "QSTN"   ge "TGB" - 12V Trig "00"   se "01"   se "QSTN"   ge "TGC" - 12V Trig "00"   se "01"   se "01"   se "01"   se "TGATOB/TGC are a	ets The Audio Selector Status  ger A Command  ets 12V Trigger A Off  ets 12V Trigger A On  ets 12V Trigger A Status  ger B Command  ets 12V Trigger B Off  ets 12V Trigger B On  ets 12V Trigger B Status  ger C Command	Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes Yes	Yes  No No No No	
"TGA" - 12V Trig  "00"	ger A Command ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes Yes Yes Yes Yes	Yes Yes Yes	No No No	
"00"   Se	ets 12V Trigger A Off ets 12V Trigger A On ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes Yes Yes Yes	Yes Yes	No No	
"QSTN"   ge "QSTN"   ge "TGB" - 12V Trig "00"   se "01"   se "QSTN"   ge "TGC" - 12V Trig "00"   se "01"   se "01"   se "01"   se "QSTN"   ge TGA/TGB/TGC are a	ets 12V Trigger A On ets 12V Trigger A Status  ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status  ger C Command	Yes Yes Yes Yes	Yes Yes	No No	
"QSTN" ge "TGB" - 12V Trig "00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "01" se "QSTN" ge TGA/TGB/TGC are a	ger B Command ets 12V Trigger A Status ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes Yes Yes	Yes	No	
"TGB" - 12V Trig  "00"   se  "01"   se  "QSTN"   ge  "TGC" - 12V Trig  "00"   se  "01"   se  "QSTN"   ge  TGA/TGB/TGC are a	ger B Command ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes Yes	Yes		
"00" se "01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge TGA/TGB/TGC are a	ets 12V Trigger B Off ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes		No	
"01" se "QSTN" ge "TGC" - 12V Trig "00" se "01" se "QSTN" ge TGA/TGB/TGC are a	ets 12V Trigger B On ets 12V Trigger B Status ger C Command	Yes		No	
"QSTN" ge "TGC" - 12V Trig  "00" se "01" se "QSTN" ge TGA/TGB/TGC are a "VOS" - Video Ou	ets 12V Trigger B Status ger C Command		Yes		
"TGC" - 12V Trig  "00" se  "01" se  "QSTN" ge  TGA/TGB/TGC are a  "VOS" - Video Ou	ger C Command	Yes		No	
"00" se "01" se "QSTN" ge TGA/TGB/TGC are a "VOS" - Video Ou	ger C Command		Yes	No	
"QSTN" ge TGA/TGB/TGC are a "VOS" - Video Ou					
"QSTN" ge TGA/TGB/TGC are a "VOS" - Video Ou	ets 12V Trigger C Off	Yes	Yes	No	
TGA/TGB/TGC are a "VOS" - Video Ou	ets 12V Trigger C On	Yes	Yes	No	
"VOS" - Video Ou	ets 12V Trigger C Status	Yes	Yes	No	
	available, when each 12V Trigger parameter is all "OFF" a	at Setup M	lenu.		
110011	utput Selector (Japanese Model Only)				
	ets D4	No	No	No	
"01" se	ets Component	No	No	No	
	ets The Selector Position	No	No	No	
"HDO" - HDMI Ou				•	
	ets No Analog	No	No	No	
	ets Yes/Out Main HDMI Main	No	Yes	Yes	
	ets Out Sub HDMI Sub	No	Yes	Yes	
	ets Both	No	Yes	Yes	
	ets Both (Main)	No	No	No	
	ets Both(Sub)	No	No	No	
	ets HDMI Out Selector Wrap-Around Up	No	Yes	Yes	
		No	Yes	Yes	
*1 except American I	ets The HDMI Out Selector  Model	INU	100	100	
"HAO" -HDMI Au					
		V	V	V	
	ets Off	Yes	Yes	Yes	
	ets On	Yes	Yes	Yes	
	ets Auto	Yes	Yes	Yes	
	ets HDMI Audio Out Wrap-Around Up	Yes	Yes	Yes	
	ets HDMI Audio Out	Yes	Yes	Yes	
"RES" - Monitor					
	ets Through	Yes	Yes	Yes	
	ets Auto(HDMI Output Only)	Yes	Yes	Yes	
	ets 480p	Yes	Yes	Yes	
	ets 720p	Yes	Yes	Yes	
	ets 1080i	Yes	Yes	Yes	
	ets 1080p(HDMI Output Only)	Yes	Yes	Yes	
"07" se	ets 1080p/24fs(HDMI Output Only)	Yes	Yes	Yes	
"08" se	ets 4K Upcaling(HDMI Output Only)	Yes	Yes	Yes	
"06" se	ets Source	No	No	No	
		Yes	Yes	Yes	
"QSTN" ge	ets Monitor Out Resolution Wrap-Around Up			Yes	
		Yes	Yes		

"ISF" - ISF Mo	ode				
"00"	sets ISF Mode Custom	No	No	No	
"01"	sets ISF Mode Day	No	No	No	
"02"	sets ISF Mode Night	No	No	No	
"UP"	sets ISF Mode State Wrap-Around Up	No	No	No	
"QSTN"	gets The ISF Mode State	No	No	No	
"VWM" - Vide	eo Wide Mode				
"00"	sets Auto	Yes	Yes	Yes	
"01"	sets 4:3	Yes	Yes	Yes	
"02"	sets Full	Yes	Yes	Yes	
"03"	sets Zoom	Yes	Yes	Yes	
"04"	sets Wide Zoom	Yes	Yes	Yes	
"05"	sets Smart Zoom	No	No	No	
"UP" "QSTN"	sets Video Zoom Mode Wrap-Around Up	Yes	Yes	Yes	
UVDMU Vide	gets Video Zoom Mode  Dicture Mode	Yes	Yes	Yes	
		V	V	\/	
"00" "01"	sets Through	Yes Yes	Yes Yes	Yes Yes	
"02"	sets Custom sets Cinema	Yes	Yes	Yes	
"03"	sets Game	Yes	Yes	Yes	
"04"	sets THX Cinema	No	No	No	
"05"	sets ISF Day	No	No	No	
"06"	sets ISF Night	No	No	No	
"07"	sets Streaming	No	No	No	
"08"	sets Direct	Yes	Yes	Yes	
"UP"	sets Video Zoom Mode Wrap-Around Up	Yes	Yes	Yes	
"QSTN"	gets Video Zoom Mode	Yes	Yes	Yes	
"LMD" - Lister	ning Mode Command				
"00"	sets STEREO	Yes	Yes	Yes	
"01"	sets DIRECT	Yes	Yes	Yes	
"02"	sets SURROUND	Yes	Yes	Yes	
"03"	sets FILM Game-RPG	Yes	Yes	Yes	
"04"	sets THX	No	Yes	No	
"05"	sets ACTION Game-Action	Yes	Yes	Yes	
"06"	sets MUSICAL Game-Rock	Yes	Yes	Yes	
"07" "08"	sets MONO MOVIE sets ORCHESTRA	No	No	No Yes	
"09"	sets UNPLUGGED	Yes Yes	Yes Yes	Yes	
"0A"	sets STUDIO-MIX	Yes	Yes	Yes	
"0B"	sets TV LOGIC	Yes	Yes	Yes	
"0C"	sets ALL CH STEREO	Yes	Yes	Yes	
"0D"	sets THEATER-DIMENSIONAL	Yes	Yes	Yes	
"0E"	sets ENHANCED 7/ENHANCE Game-Sports	Yes	Yes	Yes	
"0F"	sets MONO	Yes	Yes	Yes	
"11"	sets PURE AUDIO	No	No	Yes*3	
"12"	sets MULTIPLEX	No	No	No	
"13"	sets FULL MONO	Yes	Yes	Yes	
"14"	sets DOLBY VIRTUAL	No	No	No	
"15"	sets DTS Surround Sensation	No	No	No	
"16" "4 F"	sets Audyssey DSX	No	Yes	No	
"1F"	sets Whole House Mode	No	Yes	No	
"23"	sets Stage (when Genre Control is Enable in Japan Model sets Action (when Genre Control is Enable in Japan Mode	No	Yes	Yes	
"25" "26"	sets Music (when Genre Control is Enable in Japan Model sets Music (when Genre Contorl is Enable in Japan Model	No No	Yes Yes	Yes Yes	
"2E"	sets Sports (when Genre Control is Enable in Japan Mode	No	Yes	Yes	
"40"	sets 5.1ch Surround	No	No	No	
"40"	sets Straight Decode*1	Yes	Yes	Yes	
"41"	sets Dolby EX/DTS ES	No	No	No	
"41"	sets Dolby EX*2	Yes	Yes	Yes	
"42"	sets THX Cinema	No	Yes	No	
"43"	sets THX Surround EX	No	Yes	No	
"44"	sets THX Music	No	Yes	No	
"45"	sets THX Games	No	Yes	No	
"50"	sets THX U2/S2/I/S Cinema/Cinema2	No	Yes	No	
"51"	sets THX MusicMode,THX U2/S2/I/S Music	No	Yes	No	
"52"	sets THX Games Mode,THX U2/S2/I/S Games	No	Yes	No	
"80"	sets PLII/PLIIx Movie	Yes	Yes	Yes	
"81"	sets PLII/PLIIx Music	Yes	Yes	Yes	
"82"	sets Neo:6 Cinema/Neo:X Cinema	Yes	Yes	Yes	
"83"	sets Neo:6 Music/Neo:X Music	Yes	Yes	Yes	

84	Sets PLII/PLIIX THA Cinema	NO	Yes	NO	
"85"	sets Neo:6/Neo:X THX Cinema	No	Yes	No	
"86"	sets PLII/PLIIx Game	Yes	Yes	Yes	
"87"	sets Neural Surr*3	No	No	No	
"88"	sets Neural THX/Neural Surround	No	No	No	
"89"	sets PLII/PLIIx THX Games	No	Yes	No	
"8A"	sets Neo:6/Neo:X THX Games	No	Yes	No	
"8B"	sets PLII/PLIIx THX Music	No	Yes	No	
"8C"					
	sets Neo:6/Neo:X THX Music	No	Yes	No	
"8D"	sets Neural THX Cinema	No	No	No	
"8E"	sets Neural THX Music	No	No	No	
"8F"	sets Neural THX Games	No	No	No	
"90"	sets PLIIz Height	Yes	Yes	Yes	
"91"	sets Neo:6 Cinema DTS Surround Sensation	No	No	No	
"92"	sets Neo:6 Music DTS Surround Sensation	No	No	No	
"93"	sets Neural Digital Music	No	No	No	
"94"	sets PLIIz Height + THX Cinema	No	Yes	No	
"95"	sets PLIIz Height + THX Music	No	Yes	No	
"96"	sets PLIIz Height + THX Music	No	Yes	No	
"97"		No	No	No	
	sets PLIIz Height + THX U2/S2 Cinema				
"98"	sets PLIIz Height + THX U2/S2 Music	No	No	No	
"99"	sets PLIIz Height + THX U2/S2 Games	No	No	No	
"9A"	sets Neo:X Game	No	No	No	
"A0"	sets PLIIx/PLII Movie + Audyssey DSX	No	Yes	No	
"A1"	sets PLIIx/PLII Music + Audyssey DSX	No	Yes	No	
"A2"	sets PLIIx/PLII Game + Audyssey DSX	No	Yes	No	
"A3"	sets Neo:6 Cinema + Audyssey DSX	No	No	No	
"A4"	sets Neo:6 Music + Audyssey DSX	No	No	No	
"A5"	sets Neural Surround + Audyssey DSX	No	No	No	
"A6"	sets Neural Digital Music + Audyssey DSX	No	No	No	
"A7"	sets Dolby EX + Audyssey DSX	No	No	No	
"UP"		Yes	Yes	Yes	
	sets Listening Mode Wrap-Around Up				
"DOWN"	sets Listening Mode Wrap-Around Down	Yes	Yes	Yes	
"MOVIE"	sets Listening Mode Wrap-Around Up	Yes	Yes	Yes	
"MUSIC"	sets Listening Mode Wrap-Around Up	Yes	Yes	Yes	
"GAME"	sets Listening Mode Wrap-Around Up	Yes	Yes	Yes	
"QSTN"	gets The Listening Mode	Yes	Yes	Yes	
*1 Newer than TX	C-SR805:Dolby Digital/DTS/AAC/DTS-ES/DTS 96/24/Dolby				
	C-SR805:if you want to change Listening Mode to DTS-ES,p				
*3 Only Available	North American Model				
"LTN" - Late Ni	ight Command				
"00"	sets Late Night Off	Yes	Yes	Yes	
"01"	sets Late Night On sets Late Night Low@DolbyDigital,On@DolbyTrueHD	Yes	Yes	Yes	
"02"					
	sets Late Night High@DolbyDigital,(On@Dolby TrueHD)	Yes	Yes	Yes	
"03"	sets Late Night Auto@Dolby TrueHD	Yes	Yes	Yes	
"UP"	sets Late Night State Wrap-Around Up	Yes	Yes	Yes	
"QSTN"	gets The Late Night Level	Yes	Yes	Yes	
"RAS" - Re-EQ	/Academy Filter Command				
"00"	sets Both Off	No	No	No	
"01"	sets Re-EQ On	No	No	No	
"02"	sets Academy On	No	No	No	
"UP"	sets Re-EQ/Academy State Wrap-Around Up	No	No	No	
"QSTN"	gets The Re-EQ/Academy State	No	No	No	
UDACII DI CO		INU	INU	INO	
"RAS" - Re-EQ					
"00"	sets Re-EQ Off	No	Yes	No	
"01"	sets Re-EQ On	No	Yes	No	
"UP"	sets Re-EQ State Wrap-Around Up	No	Yes	No	
"QSTN"	gets The Re-EQ State	No	Yes	No	
	a Filter Command				
"00"	sets Cinema Filter Off	Vaa	Na	Voc	
		Yes	No	Yes	
"01"	sets Cinema Filter On	Yes	No	Yes	
"UP"	sets Cinema Filter State Wrap-Around Up	Yes	No	Yes	
"QSTN"	gets The Cinema Filter State	Yes	No	Yes	
"ADV" Audve	sov 2EO/MultEO/MultEO YT				

"84"

sets PLII/PLIIx THX Cinema

ADY" - Audyssey 2EQ/MultEQ/MultEQ XT

"00" "01"

"UP"

"QSTN'

sets Audyssey 2EQ/MultEQ/MultEQ XT Off
sets Audyssey 2EQ/MultEQ/MultEQ XT On/Movie
sets Audyssey 2EQ/MultEQ/MultEQ XT Music
sets Audyssey 2EQ/MultEQ/MultEQ XT State Wrap-Aroun
gets The Audyssey 2EQ/MultEQ/MultEQ XT State

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes Yes

Yes

Yes

"ADO" - Audys	ssey Dynamic EQ				
"00"	sets Audyssey Dynamic EQ Off	Yes	Yes	Yes	1
"01"	sets Audyssey Dynamic EQ On	Yes	Yes	Yes	
"UP"	sets Audyssey Dynamic EQ State Wrap-Around Up	Yes	Yes	Yes	
"QSTN"	gets The Audyssey Dynamic EQ State	Yes	Yes	Yes	
"ADV" - Audys	sey Dynamic Volume	•		•	
"00"	sets Audyssey Dynamic Volume Off	Yes	Yes	Yes	
"01"	sets Audyssey Dynamic Volume Light	Yes	Yes	Yes	
"02"	sets Audyssey Dynamic Volume Medium	Yes	Yes	Yes	
"03"	sets Audyssey Dynamic Volume Heavy	Yes	Yes	Yes	
"UP"	sets Audyssey Dynamic Volume State Wrap-Around Up	Yes	Yes	Yes	
"QSTN"	gets The Audyssey Dynamic Volume State	Yes	Yes	Yes	
"DVL" - Dolby					
"00"	sets Dolby Volume Off	No	No	No	
"01"	sets Dolby Volume Low/On	No	No	No	
"02"	sets Dolby Volume Mid	No	No	No	
"03"	sets Dolby Volume High	No	No	No	
"UP" "QSTN"	sets Dolby Volume State Wrap-Around Up gets The Dolby Volume State	No No	No No	No No	
		INO	INO	INO	
"MOT" - Music		V	V	V	
"00" "01"	sets Music Optimizer Off sets Music Optimizer On	Yes	Yes Yes	Yes Yes	
"UP"	sets Music Optimizer On sets Music Optimizer State Wrap-Around Up	Yes Yes	Yes	Yes	
"QSTN"	gets The Dolby Volume State	Yes	Yes	Yes	
"AVS" - A/V Sy		103	103	103	
AVO PAVOS	sets A/V Sync				
	s: sign ("+" or "-" or "0")  If set minus value, s="-". (only HDMI Lipsync is				
"snnn"	available)	Yes	Yes	Yes	
Snnn		Yes	Yes	Yes	
	If set plus value, s="+" If set zero value. s="0"				
"UP"	nnn : value: If set 100msec. nnn="100" sets A/V Sync is increased (step is depend on model)	Yes	Yes	Yes	
"DOWN"	sets A/V Sync is decreased (step is depend on model)	Yes	Yes	Yes	
"QSTN"	gets A/V Sync Value	Yes	Yes	Yes	
	nart Grid Command				1
"01"	sets Volume 1dB down and Dimmer Level "Dark"	Yes	Yes	Yes	
"03"	sets Volume 3dB down and Dimmer Level "Dark"	Yes	Yes	Yes	
"06"	sets Volume 6dB down and Dimmer Level "Dark"	Yes	Yes	Yes	
	•		•	•	•
"TUN" - Tuning	Command (Include Tuner Pack Model Only)				
	sets Directly Tuning Frequency (FM nnn.nn MHz / ÁM				
"nnnnn"	nnnnn kHz / SR nnnnn ch) put 0 in the first two digits of nnnnn at SR	Yes	Yes	Yes	
"DIRECT"	starts/restarts Direct Tuning Mode	Yes	Yes	Yes	
"0"	sets 0 in Direct Tuning Mode	Yes	Yes	Yes	
"1"	sets 1 in Direct Tuning Mode	Yes	Yes	Yes	
"2"	sets 2 in Direct Tuning Mode	Yes	Yes	Yes	
"3"	sets 3 in Direct Tuning Mode	Yes	Yes	Yes	
"4"	sets 4 in Direct Tuning Mode	Yes	Yes	Yes	
"5"	sets 5 in Direct Tuning Mode	Yes	Yes	Yes	
"6"	sets 6 in Direct Tuning Mode	Yes	Yes	Yes	
"7"	sets 7 in Direct Tuning Mode	Yes	Yes	Yes	
"8"	sets 8 in Direct Tuning Mode	Yes	Yes	Yes	
"9"	sets 9 in Direct Tuning Mode	Yes	Yes	Yes	
"UP"	sets Tuning Frequency Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Tuning Frequency Wrap-Around Down	Yes	Yes	Yes	
"QSTN"	gets The Tuning Frequency	Yes	Yes	Yes	
	z(100/200kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRE				
	Hz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!				UN5][!1T
	(100kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1				INIO?
	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1				INUJ
	(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1T				
	(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TL	IN1!![[NI	N3JĮ!1TUN	14][!1TUN	1]
	Command (Include Tuner Pack Model Only)		ı		1
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes	Yes	Yes	
"01"-"1E"	sets Preset No. 1 - 30 (In hexadecimal representation)	No	No	No	
"UP"	sets Preset No. Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Preset No. Wrap-Around Down	Yes	Yes	Yes	<u> </u>

"QSTN"	gets The Preset No.	Yes	Yes	Yes	
	Memory Command (Include Tuner Pack Model O	nly)			
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes	Yes	Yes	
"01"-"1E"	sets Preset No. 1 - 30 (In hexadecimal representation)	No	No	No	
	formation Command (RDS Model Only)				
"00"	Display RT Information*1	Yes	Yes	Yes	
"01"	Display PTY Information	Yes	Yes	Yes	
"02"	Display TP Information	Yes	Yes	Yes	
"UP"	Display RDS Information Wrap-Around Change	Yes	Yes	Yes	
"PIS" - PIY SO	can Command (RDS Model Only)	1			ı
"00"-"1E"	sets PTY No "0 - 30" (In hexadecimal representation)	Yes	Yes	Yes	
"ENTER"	Finish PTY Scan	Yes	Yes	Yes	
"1P5" - 1P 5Ca	in Command (RDS Model Only)	T v/	T 1/2	- V	1
"CNTCD"	Start TP Scan (When Don't Have Parameter)	Yes	Yes	Yes	
"ENTER"	Finish TP Scan annel Name Info (XM Model Only)	Yes	Yes	Yes	
		NI-	NI-	NI-	
"NNNNNNNNNN"" "QSTN"	XM Channel Name gets XM Channel Name	No No	No No	No No	
	ist Name Info (XM Model Only)	INO	INO	INO	
XAI - XIVI AIT	IST Name into (XIVI Wodel Only)	NI-	NI-	NI-	
	XM Artist Name gets XM Artist Name	No No	No No	No No	
		INO	140	140	
"NUNDER STATE OF THE STATE OF T	e Info (XM Model Only)	Na	No	Na	
"NNNNNNNNNN"" "QSTN"	gets XM Title	No	No	No	
"YCH" VM Ch	annel Number Command (XM Model Only)	No	No	No	
"XCH" - XW Ch "000"-"255"	XM Channel Number "000 - 255"	No	Nie	No	
"000"-"255" "UP"	sets XM Channel Wrap-Around Up	No No	No No	No No	
"DOWN"	sets XM Channel Wrap-Around Down	No	No	No	
"QSTN"	gets XM Channel Number	No	No	No	
	tegory Command (XM Model Only)	140	140	110	
	XM Category Info	No	No	No	
"UP"	sets XM Category Wrap-Around Up	No	No	No	
"DOWN"	sets XM Category Wrap-Around Down	No	No	No	
"QSTN"	gets XM Category	No	No	No	
"SCN" - SIRIUS	Channel Name Info (SIRIUS Model Only)		•		
	SIRIUS Channel Name	No	No	No	
"QSTN"	gets SIRIUS Channel Name	No	No	No	
"SAT" - SIRIUS	Artist Name Info (SIRIUS Model Only)		•		•
	SIRIUS Artist Name	No	No	No	
"QSTN"	gets SIRIUS Artist Name	No	No	No	
"STI" - SIRIUS	Title Info (SIRIUS Model Only)		•		
"nnnnnnnnnn"		No	No	No	
"QSTN"	gets SIRIUS Title	No	No	No	
"SCH" - SIRIUS	Channel Number Command (SIRIUS Model Only)		•		
"000"-"255"	SIRIUS Channel Number "000 - 255"	No	No	No	
"UP"	sets SIRIUS Channel Wrap-Around Up	No	No	No	
"DOWN"	sets SIRIUS Channel Wrap-Around Down	No	No	No	
"QSTN"	gets SIRIUS Channel Number	No	No	No	
	Category Command (SIRIUS Model Only)				
"nnnnnnnnnn"	SIRIUS Category Info	No	No	No	
"UP"	sets SIRIUS Category Wrap-Around Up	No	No	No	
"DOWN"	sets SIRIUS Category Wrap-Around Down	No	No	No	
"QSTN"	gets SIRIUS Category	No	No	No	
	Parental Lock Command (SIRIUS Model Only)		ı		
"nnnn"	Lock Password (4Digits)	No	No	No	
"INPUT"	displays "Please input the Lock password"	No	No	No	
"WRONG"	displays "The Lock password is wrong"	No	No	No	
	dio Artist Name Info (HD Radio Model Only)				
"nnnnnnnnnnn"	HD Radio Artist Name (variable-length, 64 digits max)	No	No	No	
"QSTN"	gets HD Radio Artist Name	No	No	No	
	dio Channel Name Info (HD Radio Model Only)				
"nnnnnnnnnn"	HD Radio Channel Name (Station Name) (7 digits)	No	No	No	
"QSTN"	gets HD Radio Channel Name	No	No	No	
	lio Title Info (HD Radio Model Only)				
"nnnnnnnnnn"	HD Radio Title (variable-length, 64 digits max)	No	No	No	
"QSTN"	gets HD Radio Title	No	No	No	
	dio Detail Info (HD Radio Model Only)				
"nnnnnnnnnn"	HD Radio Title	No	No	No	

"QSTN"	gets HD Radio Title	No	No	No	
HPR" - HD R	adio Channel Program Command (HD Radio Model	Only)			
"01"-"08"	sets directly HD Radio Channel Program	No	No	No	
"QSTN"	gets HD Radio Channel Program	No	No	No	
HBL" - HD R	adio Blend Mode Command (HD Radio Model Only)				
"00"	sets HD Radio Blend Mode "Auto"	No	No	No	
"01"	sets HD Radio Blend Mode "Analog"	No	No	No	
"QSTN"	gets the HD Radio Blend Mode Status	No	No	No	
HTS" - HD R	adio Tuner Status (HD Radio Model Only)				
	HD Radio Tuner Status (3 bytes)				
	mm -> "00" not HD, "01" HD				
"mmnnoo"	nn -> current Program "01"-"08"	No	No	No	
	oo -> receivable Program (8 bits are represented in				
	hexadecimal notation. Each bit shows receivable or not.)				
"QSTN"	gets the HD Radio Tuner Status	No	No	No	
he TUNER/XM	/SIRIUS/HD Radio function is shared by the MAIN and			•	
1-RDS informat	tion Command in RBDS Model, is only available Display RT in				

Zone2-related Command Support List	
PA-R100 PA-R200	AG-D500
Ondo Maria	
Code Means	
"00" sets Zone2 Standby Yes Yes	Yes
"01" sets Zone2 On Yes Yes	Yes
"QSTN" gets the Zone2 Power Status Yes Yes	Yes
"ZMT" - Zone2 Muting Command	
"00" sets Zone2 Muting Off Yes Yes	Yes
"01" sets Zone2 Muting On Yes Yes "TG" sets Zone2 Muting Wrap-Around Yes Yes	Yes Yes
"QSTN" gets the Zone2 Muting Vitab Friedrick "QSTN" gets the Zone2 Muting Status  Yes Yes	Yes
"ZVL" - Zone2 Volume Command	
"00"-"64" Volume Level 0 – 100 ( In hexadecimal representation) No Yes	No
"00"-"50" Volume Level 0 – 80 ( In hexadecimal representation)  Yes No	Yes
"UP"         sets Volume Level Up         Yes         Yes           "DOWN"         sets Volume Level Down         Yes         Yes	Yes Yes
"QSTN" gets the Volume Level Yes Yes Yes	Yes
*1: only works when main is ON'	
"ZTN" - Zone2 Tone Command	
"Bxx" sets Zone2 Bass (xx is "-A""00""+A"[-100+10 2 step] Yes Yes	No
"Txx" sets Zone2 Treble (xx is "-A""00""+A"[-100+10 2 step] Yes Yes	No
"BUP"         sets Bass Up (2 Step)         Yes         Yes           "BDOWN"         sets Bass Down (2 Step)         Yes         Yes	No No
"BDOWN" sets Bass Down (2 Step) Yes Yes "TUP" sets Treble Up (2 Step) Yes Yes	No
"TDOWN" sets Treble Down (2 Step) Yes Yes	No
"QSTN" gets Zone2 Tone ("BxxTxx") Yes Yes	No
*1: only works when main is ON and Zone2 is powered or variable.	
"ZBL" - Zone2 Balance Command	
"xx" sets Zone2 Balance (xx is "-A""00""+A"[L+100R+10 2 step] Yes Yes "UP" sets Balance Up (to R 2 Step) Yes Yes	No No
"UP" sets Balance Up (to R 2 Step) Yes Yes "DOWN" sets Balance Down (to L 2 Step) Yes Yes	No No
"QSTN" gets Zone2 Balance Yes Yes	No
*1: only works when main is ON and Zone2 is powered or variable.	
"SLZ" - ZONE2 Selector Command	
"00" sets VIDEO1 VCR/DVR STB/DVR No Yes	No
"01" sets VIDEO2 CBL/SAT Yes Yes "02" sets VIDEO3 GAME/TV GAME GAME1 Yes Yes	Yes Yes
"03" sets VIDEO4 AUX1(AUX) No No No	No
"04" sets VIDEO5 AUX2 GAME2 No No	No
"05" sets VIDEO6 PC Yes Yes	Yes
"06" sets VIDEO7 No No	No
"07"         sets Hidden1         EXTRA1         Yes         Yes           "08"         sets Hidden2         EXTRA2         Yes         Yes	No No
"09" sets Hidden3 EXTRA3 Yes Yes	No
"10" sets DVD BD/DVD Yes Yes	Yes
"20" sets TAPE(1) No No	No
"21" sets TAPE2 No No	No
"22"         sets PHONO         No         No           "23"         sets CD TV/CD         Yes         Yes	No Yes
"24" sets FM Yes Yes	Yes
"25" sets AM Yes Yes	Yes
"26" sets TUNER Yes Yes	Yes
"27" sets MUSIC SERVER P4S DLNA*4 Yes*4 Yes*4	Yes*4
	Yes*5
"28" sets INTERNET RADIO iRadio Favorite*5 Yes*5 Yes*5 "20" sets USR/USR/Front) Yes Yes	Yes
"29" sets USB/USB(Front) Yes Yes	Yes
	Yes Yes
"29"         sets USB/USB(Front)         Yes         Yes           "2A"         sets USB(Rear)         Yes         Yes	
"29"         sets USB/USB(Front)         Yes         Yes           "2A"         sets USB(Rear)         Yes         Yes           "2B"         sets NETWORK         NET         Yes         Yes           "2C"         sets USB(toggle)         Yes         Yes           "2D"         sets Airplay         No         No	Yes Yes No
"29"         sets USB/USB(Front)         Yes         Yes           "2A"         sets USB(Rear)         Yes         Yes           "2B"         sets NETWORK         NET         Yes         Yes           "2C"         sets USB(toggle)         Yes         Yes           "2D"         sets Airplay         No         No           "40"         sets Universal PORT         No         No	Yes Yes No No
"29"         sets USB/USB(Front)         Yes         Yes           "2A"         sets USB(Rear)         Yes         Yes           "2B"         sets NETWORK         NET         Yes         Yes           "2C"         sets USB(toggle)         Yes         Yes           "2D"         sets Airplay         No         No	Yes Yes No

"00"	1 - DAD +5				
"33"	sets DAB *5	No	No	No	
"7F"	sets OFF	No	No	No	
"80" "UP"	sets SOURCE	Yes	Yes	Yes	
_	sets Selector Position Wrap-Around Up	Yes	Yes	Yes	
"DOWN" "QSTN"	sets Selector Position Wrap-Around Down gets The Selector Position	Yes	Yes	Yes	
*1: only works wh		Yes	Yes	Yes	
*2: Command Ch					
	XM/SIRUS Model				
	I (TX-NR515AE/616AE/818AE)				
"TUN" - Tuning					
"nnnnn"	sets Directly Tuning Frequency (FM nnn.nn MHz / AM nnnnn kHz /	No	No	No	1
"UP"	sets Tuning Frequency (FM hhn.nn MHZ / AM hhnnn kHZ /	No	No	No	
"DOWN"	sets Tuning Frequency Wrap-Around Op	No	No	No	
"QSTN"	gets The Tuning Frequency	No	No	No	
	tion is shared by the MAIN and ZONE side.	INO	INU	INO	
"TUZ" - Tuning					
		V	V		1
"nnnnn" "DIRECT"	sets Directly Tuning Frequency (FM nnn.nn MHz / AM nnnnn kHz /	Yes	Yes	Yes	
"0"	starts/restarts Direct Tuning Mode	Yes Yes	Yes Yes	Yes Yes	
"1"	sets 0 in Direct Tuning Mode				
"2"	sets 1 in Direct Tuning Mode sets 2 in Direct Tuning Mode	Yes Yes	Yes Yes	Yes Yes	
"3"	sets 3 in Direct Tuning Mode	Yes	Yes	Yes	
"4"	sets 4 in Direct Tuning Mode	Yes	Yes	Yes	
<u>4</u> "5"	sets 5 in Direct Tuning Mode	Yes	Yes	Yes	
"6"	sets 6 in Direct Turning Mode	Yes	Yes	Yes	
"7"	sets 7 in Direct Tuning Mode	Yes	Yes	Yes	
"8"	sets 8 in Direct Tuning Mode	Yes	Yes	Yes	
"9"	sets 9 in Direct Tuning Mode	Yes	Yes	Yes	
"UP"	sets Tuning Frequency Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Tuning Frequency Wrap-Around Down	Yes	Yes	Yes	
"QSTN"	gets The Tuning Frequency	Yes	Yes	Yes	
	tion is shared by the MAIN and ZONE side. But control is sapareted.				
Ex: FM 90.00 MH	:(100kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 lz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1	TUN0][!1	TUN0] TUN0][!17	TUN5][!17 TUN0]	
Ex: FM 90.00 MH Ex: AM 1230 kHz		TUN0][!1  TUN2][!1T	TUN0] TUN0][!17 UN3]	 -UN0]	. •
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 :(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!17 :(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TU : <b>Command</b>	TUN0][!1  TUN2][!1T	TUN0] TUN0][!17 UN3]	 -UN0]	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28"	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 c(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!17 c(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TU : Command sets Preset No. 1 - 40 (In hexadecimal representation)	TUN0][!1  TUN2][!1T  JN3][!1TU  No	TUNO] TUNO][!17 TUNO][!17 UN3] N4][!1TUI	N1]	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1   (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1Tu   (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1Tu   Command	TUN0][!1 <sup>*</sup> FUN2][!1T JN3][!1TU No No	TUN0] TUN0][!17 TUN0][!17 UN3] N4][!1TUI	No No	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1   (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1Tu   (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1Tu   Command	TUN0][!1T FUN2][!1T JN3][!1TU No No	TUN0] TUN0][!17] TUN0][!17] UN3] N4][!1TUI	N1] No No No	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN"	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1   (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T   (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI   Command	TUN0][!1  TUN2][!1T  JN3][!1TU   No   No   No   No	TUNO] TUNO][!17 UN3] N4][!1TUI	N1] N0 N0 N0 N0 N0 N0	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN"	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TU Command  sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 30 ( In hexadecimal representation) sets Preset No. Wrap-Around Up sets Preset No. Wrap-Around Down gets The Preset No.	TUN0][!1T FUN2][!1T JN3][!1TU No No	TUN0] TUN0][!17] TUN0][!17] UN3] N4][!1TUI	N1] No No No	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER fund	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] [:(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUS] [:(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUN1][!1TUNDIRECT][!1TUN1	TUN0][!1  TUN2][!1T  JN3][!1TU   No   No   No   No	TUNO] TUNO][!17 UN3] N4][!1TUI	N1] N0 N0 N0 N0 N0 N0	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] [(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUN1][!1TUN1][!1TUNDIRECT][!1TUN1]	TUN0][!1' FUN2][!1TUN2][!1TU NO NO NO NO NO NO	TUN0] TUN0][!11 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0	N0 N0 N0 N0 N0	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI] Iz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1TUN	TUN0][!1' FUN2][!1TUN2][!1TU NO NO NO NO NO NO Yes	TUN0] TUN0][117 TUN0][117 UN3] N4][11TUI No No No No No	NO NO NO NO Yes	
Ex: FM 90.00 MH Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E"	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 c(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T c(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T c(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T cOmmand  sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 30 ( In hexadecimal representation) sets Preset No. Wrap-Around Up sets Preset No. Wrap-Around Down gets The Preset No. tion is shared by the MAIN and ZONE side.  Command  sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 30 ( In hexadecimal representation)	TUN0][!1"   FUN2][!1TUN2][!1TUN3][!1TUN3][!1TUN3][!1TUN3][!1TUN5][!1	TUN0] TUN0][117 TUN0][117 UN3] N4][11TUI No No No No No No	NO N	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP"	z(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1 c(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T c(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T command sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 40 ( In hexadecimal representation) sets Preset No. 1 - 30 ( In hexadecimal representation)	TUN0][!1"   TUN2][!1TUN2][!1TUN3][!1	TUN0] TUN0][117 TUN0][117 UN3] N4][11TUI N0 N0 N0 N0 N0 N0 N0	NO Yes	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. Wrap-Around Up  sets Preset No. Wrap-Around Down  gets The Preset No.  tion is shared by the MAIN and ZONE side.  Command  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. 1 - 30 ( In hexadecimal representation)  sets Preset No. Wrap-Around Up  sets Preset No. Wrap-Around Down	TUN0   11    TUN2   11    TUN2   11    No	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 N0 Yes Yes Yes	TUN0]  N1]  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Command  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Gets The Preset No.	TUN0][!1"   TUN2][!1TUN2][!1TUN3][!1	TUN0] TUN0][117 TUN0][117 UN3] N4][11TUI N0 N0 N0 N0 N0 N0 N0	NO Yes	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Command  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Iton is shared by the MAIN and ZONE side.But control is sapareted.	TUN0   11    TUN2   11    TUN2   11    No	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 N0 Yes Yes Yes	TUN0]  N1]  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tuner func	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1]	TUN0[[!1] TUN2][!1T JN3][!1TU No No No No No No No Yes Yes Yes Yes	TUNO] TUNO][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes Yes Yes Yes	NO N	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"1E" "UP" "DOWN" "GSTN" The TUNER func "The TUNER func "The TUNER func "UP" "UP" "UP" "UP" "UP" "UNER func "UNER func "NTC" - Net-Tu	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] [(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUNDIRECT][!1TUN1][!1T	TUN0   [!1"   TUN2   [!1"   TUN2   [!1"   TUN2   [!1"   TUN2   [!1"   TUN2   [!1"   TUN2	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes N0 Yes Yes Yes N0 Yes	NO NO NO NO NO Yes Yes Yes Yes No Yes	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tune "PLAYz" "STOPz"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1]  (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLi25][!1TUNDIRECT][!1TUNDIRECT][!1TUN][!1T(9kHz Step) Direct Tuning is [!1Tuning is	TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO	TUN0] TUN0][117 UN3] N4][11TUI UN3] N4][11TUI UN3] N6 N6 N6 N6 N6 N6 N6 N6 N6 Yes Yes Yes N6	NO NO NO Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes No	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"18" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"18" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tune "PLAYz" "STOPz" "PAUSEz"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI] Iz(9kHz Step Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. 1 - 40 ( In hexadecimal representation) Izets Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. Wrap-Around Up Izets Preset No. Wrap-Around Down	TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO	TUN0] TUN0][117 UN3] N4][117 UN3] N4][117 UN3] N4][117 UN3] N5	NO N	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "PAUSEz" "TRUPz"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TUN1][!1T(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1	TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes Yes Yes Yes Yes N0	TUN0]  N0  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes  Yes  No  No  No  No  No  No  No  No  No	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"18" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"18" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "PAUSEz" "TRUPz"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.  Command  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. 1 - 30 ( In hexadecimal representation)  sets Preset No. Wrap-Around Up  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.But control is sapareted.  Ine/Network Operation Command(Net-Tune Model Only)  PLAY KEY  STOP KEY  PAUSE KEY  TRACK UP KEY  TRACK DOWN KEY	TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes Yes Yes Yes N0	NO N	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PAUSEz" "PAUSEz" "TRUPZ" "TRUPZ" "TRUPZ" The Net-Tune/Net	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.  Command  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. 1 - 30 ( In hexadecimal representation)  sets Preset No. Wrap-Around Up  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.But control is sapareted.  Ine/Network Operation Command(Net-Tune Model Only)  PLAY KEY  STOP KEY  TRACK UP KEY  TRACK DOWN KEY  twork function is shared by the MAIN and ZONE side.But control is	TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO   [!1"   TUNO	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes Yes Yes Yes N0	TUN0]  N0  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes  Yes  No  No  No  No  No  No  No  No  No	
Ex: FM 90.00 MHEx: AM 1230 kHz Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PAUSEZ" "FAUSEZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "NTZ" - Net-Tu	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] [(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.  Command  sets Preset No. 1 - 40 ( In hexadecimal representation)  sets Preset No. 1 - 30 ( In hexadecimal representation)  sets Preset No. Wrap-Around Up  sets Preset No. Wrap-Around Down gets The Preset No.  tion is shared by the MAIN and ZONE side.But control is sapareted.  Ine/Network Operation Command(Net-Tune Model Only)  PLAY KEY  STOP KEY  PAUSE KEY  TRACK UP KEY  TRACK DOWN KEY  twork function is shared by the MAIN and ZONE side.But control is  Ine/Network Operation Command(Network Model Only)	TUNO[[!1] TUN2][!1T JN3][!1TU NO NO NO NO NO Yes Yes Yes Yes Yes Yes Yes Yes Ano No	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes Yes Yes Yes N0	TUNO]  N1]  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes  Yes  No  No  No  No  No  No  No  No  No  N	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "DOWN" "QSTN" The TUNER func "TRUPE "PLAYZ" "TRUPZ" "NTZ" - Net-Tu	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TIZ(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!TUN1][!T	TUNO[[!1] TUN2][!1T UN2][!1T UN3][!1TU  NO NO NO NO NO Yes	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	TUNO]  NO  NO  NO  NO  NO  NO  Yes  Yes  Yes  NO  NO  NO  NO  NO  NO  NO  NO  NO  N	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "NTZ" - Net-Tu "PLAY" "STOP"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI Iz(9kHz Step Preset No. 1 - 40 (	TUN0   [!1	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	TUNO]  NO  NO  NO  NO  NO  NO  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
EX: FM 90.00 MI- EX: AM 1230 kHz EX: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "TRUPz" "TRUPz" "TRUPz" "TRUPZ" "TRUPZ" "STOP" "PAUSE"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI] Iz(9kHz Step Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. Wrap-Around Down Izets Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. Wrap-Around Up Izets Preset No. Wrap-Around Down Izets Preset No. Wrap-Around Izets Preset No. Wra	TUNO[[!1] TUN2][!1T UN2][!1T UN3][!1TU  No No No No No No No No No Yes	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0  Yes N0 Yes Yes Yes Yes Yes  N0	TUNO]  NO  NO  NO  NO  NO  NO  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
EX: FM 90.00 MI- EX: AM 1230 kHz EX: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "TRUPz" "TRUPZ" "STOP" "PAUSE" "PAUSE" "STOP" "PAUSE" "TRUP"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T] (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T] (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T] (9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T] (10kHz Step Preset No. 1 - 40 ( In hexadecimal representation) (10kHz Step Preset No. 1 - 40 ( In hexadecimal representation) (10kHz Step Preset No. 1 - 40 ( In hexadecimal representation) (10kHz Step Preset No. Wrap-Around Up (10kHz Step Preset No. Wrap-Around Down (10kHz Step No. Wrap-Around Mown (10kHz Step No. Wrap-Around Nown (10kHz Step No. Wrap-Around Down	TUNO [[!1] TUN2][!1T UN2][!1T UN3][!1TU  No	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	TUNO]  NO  NO  NO  NO  NO  NO  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
EX: FM 90.00 MI- EX: AM 1230 kHz EX: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOPz" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "STOPT" "NTZ" - Net-Tu "PLAY" "STOP" "PAUSE"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TI] Iz(9kHz Step Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. Wrap-Around Down Izets Preset No. 1 - 30 ( In hexadecimal representation) Izets Preset No. Wrap-Around Up Izets Preset No. Wrap-Around Down Izets Preset No. Wrap-Around Izets Preset No. Wra	TUNO[[!1] TUN2][!1T UN2][!1T UN3][!1TU  No No No No No No No No No Yes	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	TUN0]  N0  N0  N0  N0  N0  N0  N0  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
EX: FM 90.00 MI- EX: AM 1230 kHz EX: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"14" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"12" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYz" "STOP2" "TRUPZ" "TRUPZ" "TRUPZ" "STOP" "NTZ" - Net-Tu "PLAY" "STOP" "TRUPZ"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Down  gets The Preset No.  tion is shared by the MAIN and ZONE side.  Command  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  tion is shared by the MAIN and ZONE side.But control is sapareted.  Ine/Network Operation Command(Net-Tune Model Only)  PLAY KEY  STOP KEY  TRACK UP KEY  TRACK DOWN KEY  twork function is shared by the MAIN and ZONE side.But control is  Ine/Network Operation Command(Network Model Only)  PLAY KEY  STOP KEY  TRACK DOWN KEY  TRACK UP KEY	TUNO [[!1] TUN2][!1T UN2][!1T UN3][!1TU  No No No No No No No Yes	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	TUNO]  NO  NO  NO  NO  NO  NO  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYZ" "STOPZ" "PAUSEZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUPZ" "TRUP" "TRUP" "CHUP" "CHUP" "CHUP" "CHDN"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] (10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1T(9kHz Step)]  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. 1 - 40 ( In hexadecimal representation)  Sets Preset No. 1 - 30 ( In hexadecimal representation)  Sets Preset No. Wrap-Around Up  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Wrap-Around Down  gets The Preset No.  Sets Preset No. Sets No.  Sets Preset No. Sets No.  Sets Preset No.  S	TUN0   [!1	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	NO N	
Ex: FM 90.00 MI- Ex: AM 1230 kHz Ex: AM 1341 kHz "PRS" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "PRZ" - Preset "01"-"28" "01"-"1E" "UP" "DOWN" "QSTN" The TUNER func "NTC" - Net-Tu "PLAYZ" "STOPZ" "PAUSEZ" "TRUPZ" "CHUP" "CHUP"	Iz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN9][!1] Iz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TUN1][!1TIZ(9kHz Step)]    sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. Wap-Around Down     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. Wrap-Around Up     sets Preset No. Wrap-Around Down     gets The Preset No. Wrap-Around Down     gets The Preset No. Wrap-Around Down     sets Preset No. Wrap-Around Down     gets The Preset No. Wrap-Around Down     gets Preset No. Wrap-Around Down     gets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets Preset No. 1 - 40 ( In hexadecimal representation)     sets	TUN0   [!1	TUN0] TUN0][!17 UN3] N4][!1TUI  N0 N0 N0 N0 N0 N0 Yes	NO N	

"REPEAT"	REPEAT KEY(for iPod 1wire)	Yes	Yes	Yes	
"RANDOM"	RANDOM KEY(for iPod 1wire)	Yes	Yes	Yes	
"DISPLAY"	DISPLAY KEY(for iPod 1wire)	Yes	Yes	Yes	
"RIGHT"	RIGHT KEY(for iPod 1wire)	Yes	Yes	Yes	
"LEFT"	LEFT KEY(for iPod 1wire)	Yes	Yes	Yes	
"UP"	UP KEY(for iPod 1wire)	Yes	Yes	Yes	
"DOWN"	DOWN KEY(for iPod 1wire)	Yes	Yes	Yes	
"SELECT"	SELECT KEY(for iPod 1wire)	Yes	Yes	Yes	
"RETURN"	RETURN KEY(for iPod 1wire)	Yes	Yes	Yes	
	twork function is shared by the MAIN and ZONE side. But control is	sapareted	•		
"NPZ" - Interne	et Radio Preset Command (Network Model Only)				
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes	Yes	Yes	
The Net-Tune/Net	twork function is shared by the MAIN and ZONE side. But control is	sapareted	•		
"LMZ" - Listeni	ing Mode Command				
"00"	sets STEREO	No	No	No	
"01"	sets DIRECT	No	No	No	
"0F"	sets MONO	No	No	No	
"12"	sets MULTIPLEX	No	No	No	
"87"	sets DVS(PI2)	No	No	No	
"88"	sets DVS(NEO6)	No	No	No	
"LTZ" - Late Ni	ght Command				
"00"	sets Late Night Off	No	No	No	
"01"	sets Late Night Low	No	No	No	
"02"	sets Late Night High	No	No	No	
"UP"	sets Late Night State Wrap-Around Up	No	No	No	
"QSTN"	gets The Late Night Level	No	No	No	
"RAZ" - Re-EQ	Academy Filter Command				
"00"	sets Both Off	No	No	No	
"01"	sets Re-EQ On	No	No	No	
"02"	sets Academy On	No	No	No	
"UP"	sets Re-EQ/Academy State Wrap-Around Up	No	No	No	
"QSTN"	gets The Re-EQ/Academy State	No	No	No	
1					

Amplifier-re	lated Command Support List		
		PA-R200	
Code	Means Power Command		
	sets Zone3 Standby	Yes	
"01"	sets Zone3 On	Yes	
	gets the Zone3 Power Status Muting Command	Yes	
	sets Zone3 Muting Off	Yes	
"01" "TG"	sets Zone3 Muting On sets Zone3 Muting Wrap-Around	Yes Yes	
	gets the Zone3 Muting Status	Yes	
	/olume Command		
"00"-"64" "00"-"50"	Volume Level 0 – 100 ( In hexadecimal representation)  Volume Level 0 – 80 ( In hexadecimal representation)	Yes No	
"UP"	sets Volume Level Up	Yes	
"DOWN" "QSTN"	sets Volume Level Down aets the Volume Level	Yes	
"TN3" - Zone3	Tone Command	Yes	
"Bxx"	Zone3 Bass (xx is "-A""00""+A"[-100+10 2 step])	No	
"Txx" "BUP"	Zone3 Treble (xx is "-A""00""+A"[-100+10 2 step]) sets Bass Up (2 Step)	No No	
"BDOWN"	sets Bass Op (2 Step)	No	
"TUP"	sets Treble Up (2 Step)	No	
"TDOWN" "QSTN"	sets Treble Down (2 Step) gets Zone3 Tone ("BxxTxx")	No No	
	Balance Command		
	Zone3 Balance (xx is "-A""00""+A"[L+100R+10 2 step])	No	
"UP" "DOWN"	sets Balance Up (to R 2 Step) sets Balance Down (to L 2 Step)	No No	
"QSTN"	gets Zone3 Balance	No	
"SI 3" - 70NF3	Selector Command		
	sets VIDEO1 VCR/DVR STB/DVR	Yes	
"01"	sets VIDEO2 CBL/SAT	Yes	
"02" "03"	sets VIDEO3 GAME/TV GAME GAME1 sets VIDEO4 AUX1(AUX)	Yes No	
"04"	sets VIDEO5 AUX2 GAME2	No	
"05" "06"	sets VIDEO6 PC sets VIDEO7	Yes No	
"07"	sets Hidden1 EXTRA1	Yes	
"08"	sets Hidden2 EXTRA2	Yes	
"09" "10"	sets Hidden3 EXTRA3 sets DVD	Yes Yes	
"20"	sets TAPE(1)	No	
"21" "22"	sets TAPE2 sets PHONO	No No	
"23"	sets CD TV/CD	Yes	
"24" "25"	sets FM sets AM	Yes Yes	
"26"	sets TUNER	Yes	
"27"	sets MUSIC SERVER P4S DLNA*2	Yes*2	
"28" "29"	sets INTERNET RADIO iRadio Favorite*3 sets USB/USB(Front)	Yes*3 Yes	
"2A"	sets USB(Rear)	Yes	
"2B" "2C"	sets NETWORK NET sets USB(toggle)	Yes Yes	
"2D"	sets Airplay	No	
"40"	sets Universal PORT	No	
"30" "31"	sets MULTI CH sets XM*1	No No	
"32"	sets SIRIUS*1	No	
<mark>"33"</mark> "80"	sets DAB *5 sets SOURCE	No Yes	
- 50	5000 000 00E	. 50	

"UP" sets Selector Position Wrap-Around Up	Yes	
"DOWN" sets Selector Position Wrap-Around Down "QSTN" gets The Selector Position	Yes Yes	
*1:Only available XM/SIRIUS/Model	Tes	I
*6:Only AE Model (TX-NR515AE/616AE/818AE)		
"TUN" - Tuning Command		
"nnnnn"   sets Directly Tuning Frequency (FM nnn.nn MHz / AM nni	nnn kHz) No	
"UP" sets Tuning Frequency Wrap-Around Up	No	
"DOWN" sets Tuning Frequency Wrap-Around Down	No	
"QSTN" gets The Tuning Frequency	No	
The TUNER function is shared by the MAIN and ZONE side.		
"TU3" - Tuning Command	(85	ı
"nnnnn" sets Directly Tuning Frequency (FM nnn.nn MHz / AM nnr "DIRECT" starts/restarts Direct Tuning Mode	nnn kHz / SR nnnnn ch) Yes Yes	
"0" sets 0 in Direct Tuning Mode	Yes	
"1" sets 1 in Direct Tuning Mode	Yes	
"2" sets 2 in Direct Tuning Mode	Yes	
"3" sets 3 in Direct Tuning Mode	Yes	
"4" sets 4 in Direct Tuning Mode	Yes	
"5" sets 5 in Direct Tuning Mode	Yes	
"6" sets 6 in Direct Tuning Mode	Yes	
"7" sets 7 in Direct Tuning Mode	Yes	1
"8" sets 8 in Direct Tuning Mode "9" sets 9 in Direct Tuning Mode	Yes	
"UP" sets 7 uning Mode sets Tuning Frequency Wrap-Around Up	Yes Yes	
"DOWN" sets Tuning Frequency Wrap-Around Down	Yes	
"QSTN" gets The Tuning Frequency	Yes	
The TUNER function is shared by the MAIN and ZONE side. But control is se	epareted.	
Ex: FM 100.5 MHz(100/200kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRE	CT][!1TUN1][!1TUN0][!1TUN0][!1	TUN5]
Ex: FM 100.55 MHz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][		5][!1TUN5]
Ex: FM 90.0 MHz(100kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1		_
Ex: FM 90.00 MHz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1		]
Ex: AM 1230 kHz(10kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!17	1 ( )N 1    1   1   1    N 2    1   1    N 3	
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU		
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU "PRS" - Preset Command	UN1][!1TUN3][!1TUN4][!1TUN1]	
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU "PRS" - Preset Command "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)		
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU "PRS" - Preset Command "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)	UN1][!1TUN3][!1TUN4][!1TUN1]	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 (In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down	UN1][1TUN3][1TUN4][1TUN1]    No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 (In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.	UN1][1TUN3][1TUN4][1TUN1]    No   No   No   No   No   No   No   N	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	UN1][!1TUN3][!1TUN4][!1TUN1]    No   No   No   No   No   No   No   N	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	UN1][!1TUN3][!1TUN4][!1TUN1]	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.  "PR3" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 (In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.  "PR3" - Preset Command  "01"-"28" sets Preset No. 1 - 40 (In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 (In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	UN1][!1TUN3][!1TUN4][!1TUN1]	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	UN1][!1TUN3][!1TUN4][!1TUN1]	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	UN1][!1TUN3][!1TUN4][!1TUN1]    No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz/9kHz Step) Direct Tuning is [!1SLI25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28"	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLl25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.  "PR3" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.But control is set  "NTC" - Net-Tune/Network Operation Command(Net-Tune Model  "PLAY2" PLAY KEY  "STOP2" STOP KEY  "PAUSE2" PAUSE KEY  "TRUP2" TRACK UP KEY  "TRDN2" TRACK DOWN KEY  The Net-Tune/Network function is shared by the MAIN and ZONE side.  "NT3" - Net-Tune/Network Operation Command(Network Model of PLAY" PLAY KEY  "STOP" STOP KEY  "TRUP2" TRACK DOWN KEY  "TRUP2" TRACK DOWN KEY  The Net-Tune/Network function is shared by the MAIN and ZONE side.  "NT3" - Net-Tune/Network Operation Command(Network Model of PLAY" PLAY KEY  "STOP" STOP KEY  "TRUP" TRACK DOWN KEY  "TRUP" TRACK DOWN KEY  "TRUP" TRACK UP KEY  "TR	No   No   No   No   No   No   No   No	
Ex: AM 1341 kHz(9kHz Step) Direct Tuning is [!1SLl25][!1TUNDIRECT][!1TU"PRS" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.  "PR3" - Preset Command  "01"-"28" sets Preset No. 1 - 40 ( In hexadecimal representation)  "01"-"1E" sets Preset No. 1 - 30 ( In hexadecimal representation)  "UP" sets Preset No. Wrap-Around Up  "DOWN" sets Preset No. Wrap-Around Down  "QSTN" gets The Preset No.  The TUNER function is shared by the MAIN and ZONE side.But control is set  "NTC" - Net-Tune/Network Operation Command(Net-Tune Model  "PLAY2" PLAY KEY  "STOPZ" STOP KEY  "PAUSEZ" PAUSE KEY  "TRUPZ" TRACK UP KEY  "TRUPZ" TRACK DOWN KEY  The Net-Tune/Network function is shared by the MAIN and ZONE side.  "NT3" - Net-Tune/Network Operation Command(Network Model of PLAY" PLAY KEY  "TRUPZ" TRACK DOWN KEY  "TRUPZ" TRACK UP KEY  "TRUPZ" TRACK UP KEY  "TRUPZ" TRACK UP KEY  "TRUP" TRACK UP KEY  "TRUP	No   No   No   No   No   No   No   No	

"UP"	UP KEY(for iPod 1wire)	Yes				
"DOWN"	DOWN KEY(for iPod 1wire)	Yes				
"SELECT"	SELECT KEY(for iPod 1wire)	Yes				
"RETURN"	RETURN KEY(for iPod 1wire)	Yes				
"NP3" - Interne	"NP3" - Internet Radio Preset Command (Network Model Only)					
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes				
The Net-Tune/Net	twork function is shared by the MAIN and ZONE side.					

		DTR-70.1	DTR-80.1	DTR-70.2	
Code	Means				
	4 Power Command			<u>.                                    </u>	
"00"	sets Zone4 Standby	Yes	Yes	Yes	
"01"	sets Zone4 On	Yes	Yes	Yes	
"QSTN"	gets the Zone4 Power Status	Yes	Yes	Yes	
	4 Muting Command	1 1/	T	1 1/	1
"00" "01"	sets Zone4 Muting Off sets Zone4 Muting On	Yes Yes	Yes Yes	Yes Yes	
"TG"	sets Zone4 Muting On sets Zone4 Muting Wrap-Around	Yes	Yes	Yes	
"QSTN"	gets the Zone4 Muting Status	Yes	Yes	Yes	
	Volume Command	·	l.		
"00"-"64"	Volume Level 0 – 100 (In hexadecimal representation)	Yes	Yes	Yes	
"00"-"50"	Volume Level 0 – 80 (In hexadecimal representation)	No	No	No	
"UP"	sets Volume Level Up	Yes	Yes	Yes	
"DOWN"	sets Volume Level Down	Yes	Yes	Yes	
"QSTN"	gets the Volume Level	Yes	Yes	Yes	
1 /" - 70NE	4 Selector Command				
"00"	sets VIDEO1 VCR/DVR STB/DVR	Yes	Yes	Yes	
00 "01"	sets VIDEO2 CBL/SAT	Yes	Yes	Yes	
"02"	sets VIDEO3 GAME/TV GAME GAME1	Yes	Yes	Yes	
"03"	sets VIDEO4 AUX1(AUX)	Yes	Yes	Yes	
"04"	sets VIDEO5 AUX2 GAME2	Yes	Yes	No	
"05"	sets VIDEO6 PC	No	No	Yes	
"06"	sets VIDEO7	No	No	No	
"07" "08"	sets Hidden1 EXTRA1	No	No	No	
"09"	sets Hidden2 EXTRA2 sets Hidden3 EXTRA3	No No	No No	No No	
"10"	sets DVD BD/DVD	Yes	Yes	Yes	
"20"	sets TAPE(1) TV/TAPE	Yes	Yes	Yes	
"21"	sets TAPE2	No	No	No	
"22"	sets PHONO	Yes	Yes	Yes	
"23"	sets CD TV/CD	Yes	Yes	Yes	
"24"	sets FM	Yes	Yes	Yes	
"25" "26"	sets AM sets TUNER	Yes Yes	Yes Yes	Yes Yes	
"27"	sets MUSIC SERVER P4S DLNA*2	Yes	Yes	Yes	
"28"	sets INTERNET RADIO iRadio Favorite*3	Yes	Yes	Yes	
"29"	sets USB/USB(Front)	Yes	Yes	Yes	
"2A"	sets USB(Rear)	No	Yes	No	
"2B"	sets NETWORK NET	No	No	No	
"2C"	sets USB(toggle)	No	No	No	
"2D"	sets Airplay	V	V	No	
"40" "30"	sets Universal PORT sets MULTI CH	Yes No	Yes No	Yes No	
<u>30</u> "31"	sets XM*1	No	No	No	
"32"	sets SIRIUS*1	Yes	Yes	Yes	
"33"	sets DAB *5	No	No	No	
"80"	sets SOURCE	Yes	Yes	Yes	
"UP"	sets Selector Position Wrap-Around Up	No	No	No	
"DOWN"	sets Selector Position Wrap-Around Down	No	No	No	
"QSTN"	gets The Selector Position	Yes	Yes	Yes	
	e XM/SIRIUS/Model Asia/Australia Model				
	ASIA/AUSTIAIIA MODE!				
"nnnnn"	sets Directly Tuning Frequency (FM nnn.nn MHz / AM nnnnn kHz)	No	No	No	
"UP"	sets Tuning Frequency Wrap-Around Up	No	No	No	
"DOWN"	sets Tuning Frequency Wrap-Around Down	No	No	No	
"QSTN"	gets The Tuning Frequency	No	No	No	
	ction is shared by the MAIN and ZONE side.				
	g Command				
"nnnnn"	sets Directly Tuning Frequency (FM nnn.nn MHz / AM nnnnn kHz)	Yes	Yes	Yes	1

"DIRECT"	starts/restarts Direct Tuning Mode	No	No	Yes	
"0"	sets 0 in Direct Tuning Mode	No	No	Yes	
"1"	sets 1 in Direct Tuning Mode	No	No	Yes	
"2"	sets 2 in Direct Tuning Mode	No	No	Yes	
"3"	sets 3 in Direct Tuning Mode	No	No	Yes	
"4"	sets 4 in Direct Tuning Mode	No	No	Yes	
"5"	sets 5 in Direct Tuning Mode	No	No	Yes	
"6"	sets 6 in Direct Tuning Mode	No	No	Yes	
"7"	sets 7 in Direct Tuning Mode	No	No	Yes	
"8"	sets 8 in Direct Tuning Mode	No	No	Yes	
"9"	sets 9 in Direct Tuning Mode	No	No	Yes	
"UP"	sets Tuning Frequency Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Tuning Frequency Wrap-Around Down	Yes	Yes	Yes	
"QSTN"	gets The Tuning Frequency	Yes	Yes	Yes	
	tion is shared by the MAIN and ZONE side. But control is separeted.				
Ex: FM 100.5 MH	z(100/200kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN1][!1T	UN0IIIT	UN0][I1TL	IN51	
	Hz(50kHz Step) Direct Tuning is [!1SLI24][!1TUNDIRECT][!1TUN1][!1TUN0				
	(100kHz Step) Direct Tuning is [!15Ll24][!1TUNDIRECT][!1TUN9][!1TUN9]		][. 1 1 0 1 10][		
	z(50kHz Step) Direct Tuning is [:13Ll24][:11UNDIRECT][:11UN9][:11UN0]		14TI INI01		
Ex. AM 1220 LU-	المراكز (علاما)   المراكز الم	[:TTONO][ 4THN21	: I I OINO]		
	(10kHz Step)		TI INI41		
		i OIN4][! I I	UNI		
"PRS" - Preset					
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	No	No	No	
"01"-"1E"	sets Preset No. 1 - 30 ( In hexadecimal representation)	No	No	No	
"UP"	sets Preset No. Wrap-Around Up	No	No	No	
"DOWN"	sets Preset No. Wrap-Around Down	No	No	No	
"QSTN"	gets The Preset No.	No	No	No	
The TUNER func	tion is shared by the MAIN and ZONE side.				
"PR4" - Preset	Command				
"01"-"28"	sets Preset No. 1 - 40 ( In hexadecimal representation)	Yes	Yes	Yes	
"01"-"1E"	sets Preset No. 1 - 30 (In hexadecimal representation)	No	No	No	
"UP"	sets Preset No. Wrap-Around Up	Yes	Yes	Yes	
"DOWN"	sets Preset No. Wrap-Around Down	Yes	Yes	Yes	
"QSTN"	gets The Preset No.	Yes	Yes	Yes	
	tion is shared by the MAIN and ZONE side.But control is separeted.				
	ine/Network Operation Command(Net-Tune Model Only)				
"PLAYz"					
	PLAY KEY	No	No	No	
"STOPz"	STOP KEY	No	No	No	
"PAUSEz"	PAUSE KEY	No	No	No	
"TRUPz"	TRACK UP KEY	No	No	No	
"TRDNz"	TRACK DOWN KEY	No	No	No	
	twork function is shared by the MAIN and ZONE side.				
"NT4" - Net-Tu	ne/Network Operation Command(Network Model Only)				
"PLAY"	PLAY KEY	Yes	Yes	Yes	
"STOP"	STOP KEY	Yes	Yes	Yes	
"PAUSE"	PAUSE KEY	Yes	Yes	Yes	
"TRUP"	TRACK UP KEY	Yes	Yes	Yes	
"TRDN"	TRACK DOWN KEY	Yes	Yes	Yes	
"FF"	FF KEY (CONTINUOUS*) (for iPod 1wire)	No	No	Yes	
"REW"	REW KEY (CONTINUOUS*) (for iPod 1wire)	No	No	Yes	
"REPEAT"	REPEAT KEY(for iPod 1wire)	No	No	Yes	
"RANDOM"	RANDOM KEY(for iPod 1wire)	No	No	Yes	
"DISPLAY"	DISPLAY KEY(for iPod 1wire)	No	No	Yes	
"RIGHT"	RIGHT KEY(for iPod 1wire)	No	No	Yes	
"LEFT"	LEFT KEY(for iPod 1wire)				
"LEFT" "UP"		No	No	Yes	
	UP KEY(for iPod 1wire)	No	No	Yes	
"DOWN"	DOWN KEY(for iPod 1wire)	No	No	Yes	
"SELECT"	SELECT KEY(for iPod 1wire)	No	No	Yes	
"RETURN"	RETURN KEY(for iPod 1wire)	No	No	Yes	
	et Radio Preset Command (Network Model Only)				
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes	Yes	Yes	
The Net-Tune/Ne	twork function is shared by the MAIN and ZONE side.				
	•				

Main-related Comman	d Support List				
	d Support List				
		PA-R100	PA-R200	AG-D500	
Code	Means				
	Command (Net-Tune Model Only before TX-NR1000)				
	tion Command (Network Model Only after TX-NR905)				
"PLAY" "STOP"	PLAY KEY STOP KEY	Yes Yes	Yes	Yes Yes	
"PAUSE"	PAUSE KEY	Yes	Yes Yes	Yes	
"TRUP"	TRACK UP KEY	Yes	Yes	Yes	
"TRDN"	TRACK DOWN KEY	Yes	Yes	Yes	
"FF" "REW"	FF KEY (CONTINUOUS*)   REW KEY (CONTINUOUS*)	Yes	Yes	Yes	
"REPEAT"	REPEAT KEY	Yes Yes	Yes Yes	Yes Yes	
"RANDOM"	RANDOM KEY	Yes	Yes	Yes	
"DISPLAY"	DISPLAY KEY	Yes	Yes	Yes	
"ALBUM"	ALBUM KEY	No	No	No	
"ARTIST" "GENRE"	ARTIST KEY GENRE KEY	No No	No No	No No	
"PLAYLIST"	PLAYLIST KEY	No	No	No	
"RIGHT"	RIGHT KEY	Yes	Yes	Yes	
"LEFT" "UP"	LEFT KEY	Yes	Yes	Yes	
"DOWN"	IDOWN KEY	Yes Yes	Yes Yes	Yes Yes	
"SELECT"	SELECT KEY	Yes	Yes	Yes	
"0"	0 KEY	Yes	Yes	Yes	
"1"	1 KEY	Yes	Yes	Yes	
"2"	2 KEY 3 KEY	Yes Yes	Yes Yes	Yes Yes	
"4"	4 KEY	Yes	Yes	Yes	
"5"	5 KEY	Yes	Yes	Yes	
"6"	6 KEY	Yes	Yes	Yes	
"7" "8"	7 KEY  8 KEY	Yes Yes	Yes Yes	Yes Yes	
"9"	9 KEY	Yes	Yes	Yes	
"DELETE"	DELETE KEY	Yes	Yes	Yes	
"CAPS"	CAPS KEY	Yes	Yes	Yes	
"LOCATION" "LANGUAGE"	LOCATION KEY LANGUAGE KEY	No No	No No	No No	
"SETUP"	SETUP KEY	No	No	No	
"RETURN"	RETURN KEY	Yes	Yes	Yes	
"CHUP"	CH UP(for iRadio)	Yes	Yes	Yes	
"CHDN" "MENU"	CH DOWN(for iRadio) MENU	Yes Yes	Yes Yes	Yes Yes	
"TOP"	TOP MENU	Yes	Yes	Yes	
"MODE"	MODE(for iPod) STD<->EXT	Yes	Yes	Yes	
"LIST"	LIST <-> PLAYBACK	Yes	Yes	Yes	
"NAT" -NET/USB Artist Name	must be sent continuously, with no more than 100ms delay between codes				
"nnnnnnnnn"	NET/USB Artist Name (variable-length, 64 ASCII letters max)	RS232C	RS232C	No	
"nnnnnnnnn"	NET/USB Artist Name (variable-length, 64 Unicode letters [UTF-8 encoded]	Ether	Ether	Ether	
"QSTN"	gets NET/USB Artist Name	Yes	Yes	Yes	
"NAL" - NET/USB Album Nar					
"nnnnnn" "nnnnnnn"	NET/USB Album Name (variable-length, 64 ASCII letters max) NET/USB Album Name (variable-length, 64 Unicode letters [UTF-8 encoded	RS232C Ether	RS232C Ether	No Ether	
"QSTN"	gets NET/USB Album Name	Yes	Yes	Yes	
"NTI" - NET/USB Title Name					
"nnnnnnnnn"	NET/USB Title Name (variable-length, 64 ASCII letters max)	RS232C	RS232C	No	
"nnnnnnnnn"	NET/USB Title Name (variable-length, 64 Unicode letters [UTF-8 encoded] r	Ether	Ether	Ether	
"QSTN" "NTM" - NET/USB Time Info	gets NET/USB Title Name	Yes	Yes	Yes	
"mm:ss/mm:ss"	NET/USB Time Info (Elapsed time/Track Time Max 99:59. If time is unknow	Yes	Yes	Yes	
"QSTN"	gets NET/USB Time Info	Yes	Yes	Yes	
"NTR" - NET/USB Track Info					
"cccc/tttt"	NET/USB Track Info (Current Track/Toral Track Max 9999. If Track is unknown NET/USB Track Info	Yes	Yes	Yes	
"QSTN"	gets NET/USB Track Info	Yes	Yes	Yes	
"NST" - NET/USB Play Status	5				

	NET/USB Play Status (3 letters)				
	p -> Play Status: "S": STOP, "P": Play, "p": Pause, "F": FF, "R": FR				
"prs"	r -> Repeat Status: "-": Off, "R": All, "F": Folder, "1": Repeat 1,	Yes	Yes	Yes	
	s -> Shuffle Status: "-": Off. "S": All . "A": Album. "F": Folder				
"QSTN"	gets the Net/USB Status	Yes	Yes	Yes	
"NPR" - Internet Radio Prese				•	•
"01"-"28"	sets Preset No. 1 - 40 (In hexadecimal representation)	Yes	Yes	Yes	
"SET"	preset memory current station	Yes	Yes	Yes	
"NLS" - NET/USB List Info					
"tlpnnnnnnnnn"	NET/USB List Info t ->Information Type (A : ASCII letter, C : Cursor Info) when t = A, I ->Line Info (0-9 : 1st to 10th Line) nnnnnnnn:Listed data (variable-length, 64 ASCII letters max) when AVR is not displayed NET/USB List(Ketboard,Menu,Popup), "nnnnnnnnn" is "See TV".	No	No	No	
	p ->Property (- : no) when t = C, I ->Cursor Position (0-9 : 1st to 10th Line, - : No Cursor) p ->Update Type (P : Page Infomation Update ( Page Clear or Disable List Info), C : Cursor Position Update)				
"tlpnnnnnnnnn"	NET/USB List Info t ->Information Type (A : ASCII letter, C : Cursor Info, U : Unicode letter) when t = A, I ->Line Info (0-9 : 1st to 10th Line) nnnnnnnnn:Listed data (variable-length, 64 ASCII letters max) when AVR is not displayed NET/USB List(Keyboard,Menu,Popup), "nnnnnnnnn" is "See TV". p ->Property -: no 0 : Playing, A : Artist, B : Album, F : Folder, M : Music, P : Playlist, S : Search a : Account, b : Playlist-C, c : Starred, d : Unstarred, e : What's New when t = C, I ->Cursor Position (0-9 : 1st to 10th Line, - : No Cursor) p ->Update Type (P : Page Infomation Update ( Page Clear or Disable List Info), C : Cursor Position Update) when t = U, (for Network Control Only) I ->Line Info (0-9 : 1st to 10th Line) nnnnnnnnn:Listed data (variable-length, 64 Unicode letters [UTF-8 encoded] max) when AVR is not displayed NET/USB List(Keyboard,Menu,Popup), "nnnnnnnnnn" is "See TV".	Yes	Yes	Yes	
"ti"	select the listed item t -> Index Type (L : Line, I : Index) when t = L, i -> Line number (0-9 : 1st to 10th Line [1 digit]) when t = I, iiiii -> Index number (00001-99999 : 1st to 99999th Item [5 digits])	Yes	Yes	Yes	

"tzzzzsurr<>"	zzzz -> sequence number (0000-FFFF) s -> status 'S' : success, 'E' : error u -> UI type '0' : List, '1' : Menu, '2' : Playback, '3' : Popup, '4' : Keyboard, "5" : Menu List rr -> reserved <> : XML data ( [CR] and [LF] are removed ) If s='S', xml version="1.0" encoding="UFT-8"? <response status="ok"></response>	Yes	Yes	Yes	
	xxxx: index of 1st item (0000-FFFF: 1st to 65536th Item [4 HEX digits]) yyyy: number of items (0000-FFFF: 1 to 65536 Items [4 HEX digits]) a: Icon Type '0': Playing, '1': Pause, '2': FF, '3': FR 'A': Artist, 'B': Album, 'F': Folder, 'G': Program, 'M': Music, 'N': Server, 'P' - Playing 'S': Coarch 'T': Trape specify to get the listed data (from Network Control Only)  zzzz -> sequence number (0000-FFFF)				
"Lzzzzllxxxxyyyy"	1222 -> sequence number (0000-FFFF)   1 -> number of layer (00-FF)   1 -> number of layer (00-FFF)   1222 -> sequence number of item (0000-FFFF : 1st to 65536th Item [4 HEX digits] )   1222 -> number of items (0000-FFFF : 1 to 65536 Items [4 HEX digits] )   1222 -> select the listed Item (from Network Control Only)	Yes	Yes	Yes	
"Izzzzllxxxx"	II -> number of layer (0000-FFFF)   xxxx -> index number (0000-FFFF)   1st to 65536th Item [4 HEX digits] )	Yes	Yes	Yes	
"NJA" - NET/USB Jacket Art	(When Jacket Art is available and Output for Network Control On	ly)		•	
"tpxxxxxxxxxxxx"	NET/USB Jacket Art/Album Art Data t-> Image type 0:BMP,1:JPEG p-> Packet flag 0:Start, 1:Next, 2:End xxxxxxxxxxxx -> Jacket/Album Art Data (valiable length, 1024 ASCII HEX letters max)	Yes	Yes	Yes	
"NSV" - NET Service(for Net	work Control Only)				
"ssiaaaaaaaabbbbbbbb"	ss -> Network Service directly ss -> Network Service 00:Media Server (DLNA), 01:Favorite, 02:vTuner, 03:SIRIUS, 04:Pandora, 05:Rhapsody, 06:Last.fm, 07:Napster, 08:Slacker, 09:Mediafly, 0A:Spotify, 0B:AUPEO!, 0C:Radiko, 0D:e-onkyo, 0E:TuneIn Radio, 0F:mp3tunes, 10:Simfy, 11:Home Media i-> Acount Info 0: No 1: Yes "aaaaaaaa": User Name ( 128 Unicode letters [UTF-8 encoded] max ) "bbbbbbbb": Password ( 128 Unicode letters [UTF-8 encoded] max )	Yes	Yes	Yes	
"NKY" - NET Keyboard(for N	letwork Control Only)				
"  "	Waiting Keyboard Input  II -> category  00: Off ( Exit Keyboard Input )  01: User Name  02: Password  03: Artist Name  04: Album Name  05: Song Name  06: Station Name  07: Tag Name  08: Artist or Song  09: Episode Name  0A: Pin Code (some digit Number [0-9])  0B: User Name (available ISO 8859-1 character set)	Yes	Yes	Yes	

"nnnnnnnn"	set Keyboard Input letter	Yes	Yes	Yes	
	"nnnnnnn" is variable-length, 128 Unicode letters [UTF-8 encoded] max ge(for Network Control Only)				
NFO - NET Popup Messa	ge(for Network Control Only)				1
"xaaaaaaybbbbbb"	x -> Popup Display Type 'T': Popup text is top 'B': Popup text is bottom 'L': Popup text is list format  aaaaaa -> Popup Title, Massage when x = 'T' or 'B' Top Title [0x00] Popup Title [0x00] Popup Message [0x00] (valiable-length Unicode letter [UTF-8 encoded])  when x = 'L' Top Title [0x00] Item Title 1 [0x00] Item Parameter 1 [0x00] [0x00] Item Title 6 [0x00] Item Parameter 6 [0x00] (valiable-length Unicode letter [UTF-8 encoded])  y -> Cursor Position on button '0': Button is not Displayed '1': Cursor is on the button 1 '2': Cursor is on the button 2  bbbbbb -> Text of Button Text of Button 1 [0x00] Text of Button 2 [0x00] (valiable-length Unicode letter [UTF-8 encoded])	Yes	Yes	Yes	
	(valiable-length Unicode letter [UTF-8 encoded])				
NLT" - NFT/USB List Title	Info(for Network Control Only)				
NET - NET/OSB LIST TITLE	INET/USB List Title Info				
xxuycccciiiillrraabbssnnnnnr	xx: Service Type 00: DLNA, 01: Favorite, 02: vTuner, 03: SiriusXM, 04: Pandora, 05: Rhapsody, 06: Last.fm, 07: Napster, 08: Slacker, 09: Mediafly, 0A: Spotify, 0B: AUPEO!, 0C: radiko, 0D: e-onkyo, 0E: TuneIn Radio, 0F: MP3tunes, 10: Simfy, 11:Home Media F0: USB Front, F1: USB Rear, F2: Internet Radio, F3: NET, FF: None u: UI Type 0: List, 1: Menu, 2: Playback, 3: Popup, 4: Keyboard, "5": Menu List y: Layer Info	No	No	No	
NMD" - iPod Mode Chang	e (with USB Connection Only)				
	Standerd Mode	Yes	Yes	Yes	
"STD"	Standerd Mode	165	165	res	
"EXT"	Extend Mode(If available)	Yes	Yes	Yes	

RI Dock / RI Components -related Command Support List PA-R200 AG-D500 PA-R100 Means "CDS" - Command for Docking Station via RI "PWRON" sets Dock On "PWROFF' sets Dock Standby Yes Yes Yes "PLY/RES PLAY/RESUME Key Yes Yes Yes STOP Key "STOP" Yes Yes Yes "SKIP.F" TRACK UP Key Yes Yes Yes TRACK DOWN Key
PAUSE Key "SKIP.R" Yes Yes Yes "PAUSE" Yes Yes Yes "PLY/PAU" PLAY/PAUSE Key Yes "FF" FF Key Yes Yes Yes "REW" Yes "ALBUM+ ALBUM UP Key Yes Yes Yes "ALBUM-ALBUM DONW Key Yes Yes Yes "PLIST+" PLAYLIST UP Key Yes Yes Yes "PLIST-" PLAYLIST DOWN Key Yes Yes Yes "CHAPT+" CHAPTER UP Key Yes Yes Yes "CHAPT-" CHAPTER DOWN Key Yes Yes Yes "RANDOM" SHUFFLE Key Yes Yes Yes "REPEAT" REPEAT Key Yes Yes Yes "MUTE MUTE Key Yes "BLIGHT BACKLIGHT Key Yes Yes Yes "MENU" MENU Key Yes Yes Yes SELECT Key "ENTER" Yes Yes Yes CUSOR UP Key Yes "UP" Yes Yes "DOWN" CURSOR DOWN Key Yes Yes Yes CCD" - CD Player Operation Command "POWER' POWER ON/OFF No No No "TRACK TRACK+ No No "PLAY" PLAY No No No "STOP" STOP No No "PAUSE" PAUSE No No No "SKIP.F" No No >>| "SKIP.R" No No No "MEMORY **MEMORY** No No No CLEAR No No "CLEAR" REPEAT "REPEAT Nο No No "RANDOM **RANDOM** No No Nο "DISP" DISPLAY No No No "D.MODE" D.MODE No No No No No "REW" REW << No No OPEN/CLOSE No No "OP/CL" No No No No

"2"

"3" "4"

"5"

"6'

"8'

"9"

"0'

"10"

"+10"

"D.SKIP

"DISC.F"

"DISC.R"

"DISC1"

"DISC2'

"DISC3"

"DISC4"

"DISC5"

9

10

+10

DISC +

DISC +

DISC -

DISC1

DISC2

DISC3

DISC4

DISC5

No

"DICCC"	DISCS	NI-	NI-	NI-	
"DISC6" "STBY"	DISC6	No No	No	No No	
"PON"	STANDBY POWER ON	No	No No	No No	
		NO	NO	NO	
	(A) Operation Command				
"PLAY.F"	PLAY >	No	No	No	
"PLAY.R"	PLAY <	No	No	No	
"STOP"	STOP	No	No	No	
"RC/PAU"	REC/PAUSE	No	No	No	
"FF"	FF >>	No	No	No	
"REW"	REW <<	No	No	No	
	(B) Operation Command				
"PLAY.F"	PLAY >	No	No	No	
"PLAY.R"	PLAY <	No	No	No	
"STOP"	STOP	No	No	No	
"RC/PAU"	REC/PAUSE	No	No	No	
"FF"	FF >>	No	No	No	
"REW"	REW <<	No	No	No	
"OP/CL" "SKIP.F"	OPEN/CLOSE	No	No	No No	
	>>	No	No		
"SKIP.R"	l<<	No	No	No	
"REC"	REC	No	No	No	
	cs Equalizer Operation Command				
"POWER"	POWER ON/OFF	No	No	No	
	PRESET	No	No	No	
	ecorder Operation Command				
"PLAY"	PLAY	No	No	No	
"RC/PAU"	REC/PAUSE	No	No	No	
"STOP"	STOP	No	No	No	
"SKIP.F"	>>l	No	No	No	
"SKIP.R"	l<<	No	No	No	
"FF"	FF>>	No	No	No	
"REW"	REW <<	No	No	No	
"CDV" - DVD PI	layer Operation Command (via RIHD only after TX-NR5	509)			
"POWER"	POWER ON/OFF	Yes	Yes	Yes	
"PWRON"	POWER ON	Yes	Yes	Yes	
"PWROFF"	POWER OFF	Yes	Yes	Yes	
"PLAY"	PLAY	Yes	Yes	Yes	
"STOP"	STOP	Yes	Yes	Yes	
"SKIP.F"	>>	Yes	Yes	Yes	
"SKIP.R"	l<<	Yes	Yes	Yes	
"FF"	FF>>	Yes	Yes	Yes	
"REW"	REW <<	Yes	Yes	Yes	
"PAUSE"	PAUSE	Yes	Yes	Yes	
"LASTPLAY"	LAST PLAY	Yes	Yes	Yes	
"SUBTON/OFF"		Yes	Yes	Yes	
"SUBTITLE"	SUBTITLE	Yes	Yes	Yes	
"SETUP"	SETUP	Yes	Yes	Yes	
"TOPMENU"	TOPMENU	Yes	Yes	Yes	
"MENU"	MENU	Yes	Yes	Yes	
<u> </u>	UP	Yes	Yes	Yes	
"DOWN"	DOWN	Yes	Yes	Yes	
"LEFT"	LEFT	Yes	Yes	Yes	
"RIGHT"	RIGHT	Yes	Yes	Yes	
"ENTER"	ENTER	Yes	Yes	Yes	
"RETURN"	RETURN	Yes	Yes	Yes	
"DISC.F"	DISC +	Yes	Yes	Yes	
"DISC.R"	DISC -	Yes	Yes	Yes	
"AUDIO"	AUDIO	Yes	Yes	Yes	
"RANDOM"	RANDOM	Yes	Yes	Yes	
"OP/CL"	OPEN/CLOSE	Yes	Yes	Yes	
"ANGLE"	ANGLE	Yes	Yes	Yes	
"1"	1	Yes	Yes	Yes	
"2"	2	Yes	Yes	Yes	
"3"	3	Yes	Yes	Yes	
"4"	4	Yes	Yes	Yes	
"5"	5	Yes	Yes	Yes	
"6"	6	Yes	Yes	Yes	
"7"	7	Yes	Yes	Yes	
"8"	9	Yes Yes	Yes Yes	Yes Yes	
"9"					

	I . a	1			
"10"	[10]	Yes	Yes	Yes	
"0"	0	Yes	Yes	Yes	
"SEARCH"	SEARCH	Yes	Yes	Yes	
"DISP"	DISPLAY	Yes	Yes	Yes	
"REPEAT"	REPEAT	Yes	Yes	Yes	
"MEMORY"	MEMORY	Yes	Yes	Yes	
"CLEAR"	CLEAR	Yes	Yes	Yes	
"ABR"	A-B REPEAT	Yes	Yes	Yes	
"STEP.F"	STEP	Yes	Yes	Yes	
"STEP.R"	STEP BACK	Yes	Yes	Yes	
"SLOW.F"	SLOW	Yes	Yes	Yes	
"SLOW.R"	SLOW BACK	Yes	Yes	Yes	
"ZOOMTG"	ZOOM	Yes	Yes	Yes	
"ZOOMUP"	ZOOM UP	Yes	Yes	Yes	
"ZOOMDN"	ZOOM DOWN	Yes	Yes	Yes	
"PROGRE"	PROGRESSIVE	Yes	Yes	Yes	
"VDOFF"	VIDEO ON/OFF	Yes	Yes	Yes	
			Yes	Yes	
"CONMEM"	CONDITION MEMORY	Yes			
"FUNMEM"	FUNCTION MEMORY	Yes	Yes	Yes	
"DISC1"	DISC1	Yes	Yes	Yes	
"DISC2"	DISC2	Yes	Yes	Yes	
"DISC3"	DISC3	Yes	Yes	Yes	
"DISC4"	DISC4	Yes	Yes	Yes	
"DISC5"	DISC5	Yes	Yes	Yes	
"DISC6"	DISC6	Yes	Yes	Yes	
"FOLDUP"	FOLDER UP	Yes	Yes	Yes	
"FOLDUP"					
	FOLDER DOWN	Yes	Yes	Yes	
"P.MODE"	PLAY MODE	Yes	Yes	Yes	
"ASCTG"	ASPECT(Toggle)	Yes	Yes	Yes	
"CDPCD"	CD CHAIN REPEAT	Yes	Yes	Yes	
"MSPUP"	MULTI SPEED UP	Yes	Yes	Yes	
"MSPDN"	MULTI SPEED DOWN	Yes	Yes	Yes	
"PCT"	PICTURE CONTROL	Yes	Yes	Yes	
"RSCTG"	RESOLUTION(Toggle)	Yes	Yes	Yes	
"INIT"	Return to Factory Settings	Yes	Yes	Yes	
		100	100	100	
"CMD" MD Do	soorder Operation Command				
	ecorder Operation Command				
"POWER"	POWER ON/OFF	No	No	No	
"POWER" "PLAY"	POWER ON/OFF PLAY	No	No	No	
"POWER" "PLAY" "STOP"	POWER ON/OFF PLAY STOP			No No	
"POWER" "PLAY" "STOP" "FF"	POWER ON/OFF PLAY STOP FF >>	No	No	No	
"POWER" "PLAY" "STOP"	POWER ON/OFF PLAY STOP	No No	No No	No No	
"POWER" "PLAY" "STOP" "FF"	POWER ON/OFF PLAY STOP FF >>	No No No	No No No	No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE	No No No No	No No No No	No No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I	No No No No No	No No No No No	No No No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I	No No No No No No	No No No No No No	No No No No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE	No No No No No No No	No No No No No No No	No No No No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC	No No No No No No No No	No No No No No No No No	No No No No No No No No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY	No No No No No No No No No No	No N	No N	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY	No	No N	No N	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL	No	No N	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN	No	No N	No N	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR	No	No N	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR	No	No N	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1	No	No N	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 4 5 6 6 7	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6 7 8	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7" "8" "9"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6 7 8 9 10/0	No	No   No   No   No   No   No   No   No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7" "8" "9" "10/0" "nn/nnn"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6 7 8 9 10/0/	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7" "8" "9" "10/0" "nn/nnn" "NAME"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 1 2 3 4 5 6 7 8 9 10/0/ NAME	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "1" "2" "3" "4" "5" "6" "7" "8" "9" "10/0" "nn/nnn" "NAME" "GROUP"	POWER ON/OFF PLAY STOP FF >> FF >> REW << PLAY MODE  >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 2 3 4 5 6 7 8 9 10/0/ NAME GROUP	No	No	No	
"POWER" "PLAY" "STOP" "FF" "REW" "P.MODE" "SKIP.F" "SKIP.R" "PAUSE" "REC" "MEMORY" "DISP" "SCROLL" "M.SCAN" "CLEAR" "RANDOM" "REPEAT" "ENTER" "EJECT" "1" "2" "3" "4" "5" "6" "7" "8" "9" "10/0" "nn/nnn" "NAME" "GROUP" "STBY"	POWER ON/OFF PLAY STOP FF >> REW << PLAY MODE >>I I<< PAUSE REC MEMORY DISPLAY SCROLL MUSIC SCAN CLEAR RANDOM REPEAT ENTER EJECT 1 1 2 3 4 5 6 7 8 9 10/0/ NAME	No	No	No	

"POWER"	POWER ON/OFF	No	No	No	
"P.MODE"	PLAY MODE	No	No	No	
"PLAY"	PLAY	No	No	No	
"STOP"	STOP	No	No	No	
"SKIP.F"	>>	No	No	No	
"SKIP.R"	l<<	No	No	No	
"PAUSE"	PAUSE	No	No	No	
"REC"	REC	No	No	No	
"CLEAR"	CLEAR	No	No	No	
"REPEAT"	REPEAT	No	No	No	
"1"	1	No	No	No	
"2"	2	No	No	No	
"3"	3	No	No	No	
"4"	4	No	No	No	
"5"	5	No	No	No	
"6"	6	No	No	No	
"7"	7	No	No	No	
"8"	8	No	No	No	
"9"	9	No	No	No	
"10/0"	10/0	No	No	No	
"nn/nnn"	/	No	No	No	
"SCROLL"	SCROLL	No	No	No	
"OP/CL"	OPEN/CLOSE	No	No	No	
"DISP"	DISPLAY	No	No	No	
"RANDOM"	RANDOM	No	No	No	
"MEMORY"	MEMORY	No	No	No	
"FF"	FF	No	No	No	
"REW"	REW	No	No	No	
"STBY"	STANDBY	No	No	No	
				•	

# Main-related Command Support List

Code	Means	PA-R100	PA-R200	AG-D500
				TV 115500
"CDV" - DVD/B	D Player Operation Command (	ла кінр	only afte	r 1X-NR509)
"POWER"	POWER ON/OFF	Yes	Yes	Yes
"PWRON"	POWER ON	Yes	Yes	Yes
"PWROFF"	POWER OFF	Yes	Yes	Yes
"PLAY"	PLAY	Yes	Yes	Yes
"STOP"	STOP	Yes	Yes	Yes
"SKIP.F"	>>1	Yes	Yes	Yes
"SKIP.R"	l<<	Yes	Yes	Yes
"FF"	FF >>	Yes	Yes	Yes
"REW"	REW <<	Yes	Yes	Yes
"PAUSE"	PAUSE	Yes	Yes	Yes
"SETUP"	SETUP	Yes	Yes	Yes
"TOPMENU"	TOPMENU	Yes	Yes	Yes
"MENU"	MENU	Yes	Yes	Yes
"UP"	UP	Yes	Yes	Yes
"DOWN"	DOWN	Yes	Yes	Yes
"LEFT"	LEFT	Yes	Yes	Yes
"RIGHT"	RIGHT	Yes	Yes	Yes
"ENTER"	ENTER	Yes	Yes	Yes
"RETURN"	RETURN	Yes	Yes	Yes
"OP/CL"	OPEN/CLOSE	Yes	Yes	Yes
"ANGLE"	ANGLE	Yes	Yes	Yes
"1"	1	Yes	Yes	Yes
"2"	2	Yes	Yes	Yes
"3"	3	Yes	Yes	Yes
"4"	4			
"5"	5	Yes	Yes	Yes
	6	Yes	Yes	Yes
"6"		Yes	Yes	Yes
"7"	7	Yes	Yes	Yes
"8"	8	Yes	Yes	Yes
"9"	9	Yes	Yes	Yes
"0"	0	Yes	Yes	Yes
"DISP"	DISPLAY	Yes	Yes	Yes
"CLEAR"	CLEAR A	Yes	Yes	Yes
"B"	В	Yes	Yes	Yes
"C"	С	Yes	Yes	Yes
"D"	D	Yes	Yes	Yes

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<user control="" pressed=""></user>	User Operation	Select	Up	Down	Left	Right	Right-Up	Right-Down	Left-Up	Left-Down	Root Menu	SETUP MENU	Contents Menu	Favorite Menu	Exit	Media Top Menu	Media Context- sensitive Menu	Number Entry Mode	Number 11	Number 12	Number0 or 10	Number1	Number2	Number3	Number4	Number5	Number6	Number7	Number8	Number9	Dot	Enter	Clear	Next Favorite	Channel Up	Channel Down
Value 0x44	Q	00X0	0x01	0x02	0x03	0x04	0x05	90x0	0x07	0x08	60×0	0x0A	0x0B	0x0C	Q0X0	0x10	0x11	0x1D	0x1E	0x1F	0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2F	0x30	0x31
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Previous Channel	Sound select	Display Information	HELP	PAGE UP	PAGE DOWN	Power	Volume Up	Volume Down	Play	Stop	Pause	Rewind	Fast Forward	Eject	Forward	0x4C Backward	Stop-Record	Pause-Record	Angle	Sub Picture	Video on Demand	lecto	imer	initial	elect	Type Select Sound Presentation	Play Function	Pause-Play	Record Function	Pause-Record Function	Stop Function	Mute Function	Restore Volume Function	Tune Function	ELEC UNC	elect unctiv	elect	ower	Power Off Function	ower	F1(Blue)	F2(Red)	F3(Green)	F4(Yellow)	F5	Date	l'	User Operation Fast	Forward/Skip Rewind/Skip	Stop	Eject
			0x36 H			0x40 F		0x42 V			0x46 F	0x48 R	0x49 F	0x4A	0x4B	Ö	0x4D	0x4E P			2	0x53 E	0x54 T	25	99	1 12	09X0	0x61			0x64 S	0x65 N		72	ω ω	8 69X0	Ox6A S	Oxeb P	Oxec F	Ожер Р	Ε.	0x72 F			0x75 F	0x76	45 E	-			
0x32	0x33	0x35	ŏ	0x37	0x38	ŏ X	0x41	7X0	0x44	0x45	70	×o	0×2	ŏ.	×	7X	X0	7X	0x20	0x51	0x52	0XE	0XE	0x55	0x56	0x57	ő	0×6	0x62	0xe3	0X	0xe	0X	0x67	0x68	9x0	0xe	0×6	0×0	0x6	0x71	0X	ίχ Θ	0x74	(X)	(X)	ŏŏ	<u> </u>	0x02	0x03	ŏ
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# TV (via RIHD)-related Command Support List

Code	Means	PA-R100	PA-R200	AG-D500	
0000	Modrio	-			_
"CTV" - TV Ope	eration Command (via RIHD)				
"POWER"	Power	Yes	Yes	Yes	
"PWRON"	PowerOn	Yes	Yes	Yes	_
"PWROFF"	Standby	Yes	Yes	Yes	_
"CHUP"	CH Up	Yes	Yes	Yes	_
"CHDN"	CH Down	Yes	Yes	Yes	_
"VLUP"	Volume Up	Yes	Yes	Yes	_
"VLDN"	Volume Down	Yes	Yes	Yes	_
"MUTE"	Muting	Yes	Yes	Yes	_
"DISP"	Display	Yes	Yes	Yes	_
"INPUT"	Input	Yes	Yes	Yes	_
"1"	1	Yes	Yes	Yes	
"2"	2	Yes	Yes	Yes	_
"3"	3	Yes	Yes	Yes	_
"4"	4	Yes	Yes	Yes	_
"5"	5	Yes	Yes	Yes	_
"6"	6	Yes	Yes	Yes	_
"7"	7	Yes	Yes	Yes	
"8"	8	Yes	Yes	Yes	
"9"	9	Yes	Yes	Yes	
"0"	0	Yes	Yes	Yes	
"CLEAR"	Clear	Yes	Yes	Yes	_
"SETUP"	Setup	Yes	Yes	Yes	_
"GUIDE"	Guide / Top Menu	Yes	Yes	Yes	_
"PREV"	Previous	Yes	Yes	Yes	
"UP"	Cursor Up	Yes	Yes	Yes	
"DOWN"	Cursor Down	Yes	Yes	Yes	
"LEFT"	Cursor Left	Yes	Yes	Yes	
"RIGHT"	Cursor Right	Yes	Yes	Yes	
"ENTER"	Enter	Yes	Yes	Yes	
"RETURN"	Return	Yes	Yes	Yes	
"A"	A for CEC US:R,EU:R,JP:B	Yes	Yes	Yes	
"B"	B for CEC US:G,EU:G,JP:R	Yes	Yes	Yes	
"C"	C for CEC US:B,EU:Y,JP:G	Yes	Yes	Yes	
"D"	D for CEC US:Y,EU:B,JP:Y	Yes	Yes	Yes	

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		Select	ф	Down	Left	Right	Root Menu	SETUP MENU	Ĭ.	Number0 or 10	Number1	Number2	Number3	Number4	Number5	Number6	Number7	Number8	Number9	Clear	Channel Up	Channel Down	Previous	Input Select	Display Information	Power	Volume Up	Volume Down	Mute	Electonio Program	Power Off Function	Power On Function	F1(Blue)	F2(Red)	F3(Green)	F4(Yellow)
Value 0x44	₽	00X0	0x01	0x02	0×03	0x04	60×0	0x0A	Ox0	0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2C	0x30	0x31	0x32	0x34	0x35	0x40	0x41	0x42	0x43	0x53	0x6C	0x6D	0x71	0x72	0x73	0x74
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