2010 AVR
RS-232C & IP Commands for Custom Integration

Ver.1.00.00

作成		照査		承認	
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日付	17-Mar-10	日付	23-Mar-10	日付	23-Mar-10

Beginning

This list is common in RS232C and IPcontrol.

VSX-31 and VSX-30 correspond to RS232C only.

About Network Standby
This setting allows the IP Control function
for operating the receiver from a IP control system connected on the same LAN
as the receiver to be used even when the receiver is in the standby mode.
1. Select ‘Network Standby’ from the Network Setup menu.
2. Then set to "ON".

RS232C Physical Connection

Connector

RS232C DB9 Male, Cross

Pin	AV Receiver
1	*1
2	RXD
3	TXD
4	*1
5	GND
6	*1
7	RTS(BUSY)
8	NC
9	NC

*1 Pin 1&4&6 are shorted each other.

Communication

Communication Speed : 9600bps
Character length : 8bits
Parity:None
Start bit:1bits
Stop bit:1bit

Ethernet

Communication port

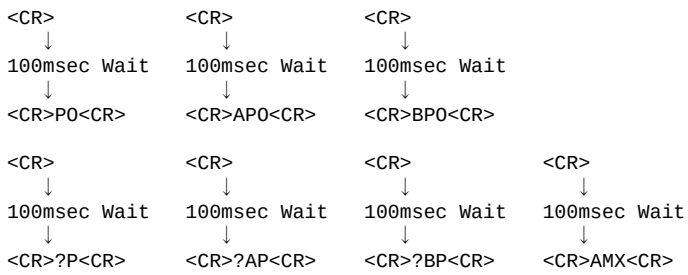
TCP Port 23

Pioneer

Notice

Notice1

This equipment save the power consumption (less than 1W) during the standby mode.
To achieve this, main CPU doesn't operate during standby mode.
For this reason, this equipment can not receive the 1st command from rs-232c port.
But main CPU will be waked up by this 1st command.
This equipment is using 1st command "<CR>" as only a trigger to wake up the main CPU
and can not decode 1st command.
Please send command as bellow.
Please make sure to have at least 100msec. Interval between the 1st command and the second command.



Notice2

It may happen to take time for the set product to respond to the command from your remote controlling system.

Notice3

After set to PANEL LOCK or REMOTE LOCK mode,
"PANEL LOCK" or "REMOTE LOCK" message appear on FL display
when a front panel key or remote control button pushed.

Pioneer

New Command

A/V Receiver Control Commands List

File Ver.1.10.00
AUEL Ver.1.16.00

About Automatic Feedback

When the customer changes the status using key on the front panel or the remote controller of AV receiver, AV receiver send new status automatically.

(For ex.) The user changes function on the front panel.
Response from AV receiver : FN**<CR+LF>

Other Automatic Feedback status table.

AV Receiver status	Response	
POWER	PWR*<CR+LF>	(*1)
VOLUME	VOL***<CR+LF>	
MUTE	MUT*<CR+LF>	
INPUT SOURCE	FN**<CR+LF>	
LISTENING MODE SET	SR****<CR+LF>	
LISTENING MODE	LM***<CR+LF>	
SPEAKERS	SPK*<CR+LF>	
HDMI OUTPUT SELECT	HO*<CR+LF>	
SBch PROCESSING	EX*<CR+LF>	
MCACC MEMORY	MC*<CR+LF>	
PHASE CONTROL	IS*<CR+LF>	
TONE	TO*<CR+LF>	
BASS	BA**<CR+LF>	
TREBLE	TR**<CR+LF>	
HDMI AUDIO	HA*<CR+LF>	
TUNER PRESET	PR***<CR+LF>	
TUNER FREQUENCY	FR*****<CR+LF>	
XM CHANNEL	XM***<CR+LF>	
SIRIUS CHANNEL	SIR***<CR+LF>	
ZONE 2 POWER	APR*<CR+LF>	
ZONE 3 POWER	BPR*<CR+LF>	
ZONE 2 VOLUME	ZV**<CR+LF>	
ZONE 3 VOLUME	YV**<CR+LF>	
ZONE 2 MUTE	Z2MUT*<CR+LF>	
ZONE 3 MUTE	Z3MUT*<CR+LF>	
ZONE 2 INPUT	Z2F**<CR+LF>	
ZONE 3 INPUT	Z3F**<CR+LF>	
PQLS	PQ*<CR+LF>	
CH LEVEL	CLV*****<CR+LF>	
VIRTUAL SB	VSB*<CR+LF>	
VIRTUAL HEIGHT	VHT*<CR+LF>	
FL display information	FL*<CR+LF>	(*2)
Input Name Information	RGB*<CR+LF>	

(*1)When EXTENSION or RF Remote setting is ON, "PWR1" Command is guaranteed.
The model not have EXTENSION Setup menu, "PWR1" Command is not guaranteed.
(*2)Only RS232C is guaranteed.

POWER

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
PO<CR>	POWER ON		0: ON		o	o	o	o	o	o	o
PF<CR>	POWER OFF		1: OFF		o	o	o	o	o	o	o
?P<CR>	Request POWER status.			Command:?P<CR> Response:PWR0<CR+LF> (now POWER ON)	o	o	o	o	o	o	o

VOLUME

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
VU<CR>	VOLUME UP	VOL***<CR+LF>	***: 000 to 185 by ASCII code. (1step = 0.5dB)		o	o	o	o	o	o	o
VD<CR>	VOLUME DOWN				o	o	o	o	o	o	o

***VL<CR>	VOLUME SET		185 : +12.0dB 184 : +11.5dB 161 : 0.0dB 001 : -80.0dB 000 : ---.-dB (MIN)	061VL<CR> (set to -50.0dB.)	○	○	○	○	○	○	○
?V<CR>	Request VOLUME LEVEL.			Command:?V<CR> Response:VOL160<CR+LF> (VOLUME is set to 0.0dB)	○	○	○	○	○	○	○

MUTE

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
MO<CR>	MUTE ON		0: ON		○	○	○	○	○	○	○
MF<CR>	MUTE OFF		1 : OFF		○	○	○	○	○	○	○
?M<CR>	Request MUTE ststus.			Command:?M<CR> Response:MUT1<CR+LF> (MUTE OFF)	○	○	○	○	○	○	○

INPUT

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
**FN<CR>	INPUT CHANGE	FN**<CR+LF>	04: DVD	15FN<CR>	○	○	○	○	○	○	○
			25: BD	(set to DVR.)	○	○	○	○	○	○	○
			05: TV/SAT		○	○	○	○	○	○	○
			15: DVR/BDR		○	○	○	○	○	○	○
			10: VIDEO 1(VIDEO)		○	○	○	○	○	○	○
			14: VIDEO 2		×	×	×	×	×	×	○(Front)
			19: HDMI 1		○	○	○	○	○	○	○
			20: HDMI 2		○	○	○	○	○	○	○
			21: HDMI 3		○	○	○	○	○	○	○
			22: HDMI 4		○	○	○	○	○	○	×
			23: HDMI 5		○(Front)	○(Front)	○(Front)	○(Front)	○(Front)	○(Front)	×
			26: HOME MEDIA GALLERY(Internet Radio)		○	○	○	○	○	○	○
			17: iPod/USB		○	○	○	○	○	○	○
			18: XM RADIO		○	○	○	○	○	×	×
			01: CD		○	○	○	○	○	○	○
			03: CD-R/TAPE		○	○	○	○	○	○	○
			02: TUNER		○	○	○	○	○	○	○
			00: PHONO		○	○	×	×	×	×	×
			12: MULTI CH IN		○	○	×	×	×	×	×
			33: ADAPTER PORT		○	○	○	○	○	○	○
			27: SIRIUS		○	○	○	○	○	○	○
			31: HDMI (cyclic)		○	○	○	○	○	○	○
FU<CR>	INPUT CHANGE (cyclic)				○	○	○	○	○	○	○
FD<CR>	INPUT CHANGE REVERSE				○	○	○	○	○	○	○
?F<CR>	Request INPUT source			Command:?F<CR> Response:FN05<CR+LF> (TV/SAT is selected.)	○	○	○	○	○	○	○

LISTENING MODE

There are some modes which is not available depending on the input signal.

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
****SR<CR>	LISTENING MODE SET	SR****<CR+LF>	0001: STEREO (cyclic)	0102SR<CR>	○	○	○	○	○	○	○
			0009: STEREO (direct set)	(set to SCI-FI mode.)	○	○	○	○	○	○	○
			0151: Auto Level Control (A.L.C.)		○	○	○	○	○	○	○
			0003: Front Stage Surround Advance Focus	0008SR<CR>	○	○	○	○	○	○	○
			0004: Front Stage Surround Advance Wide	(set to PURE DIRECT	○	○	○	○	○	○	○
			0153: RETRIEVER AIR		○	○	○	○	○	○	○
			0010: STANDARD	mode.)	○	○	○	○	○	○	○
			0011: (2ch source)		○	○	○	○	○	○	○
			0013: PRO LOGIC2 MOVIE		○	○	○	○	○	○	○
			0018: PRO LOGIC2x MOVIE		○	○	○	○	○	○	○

			0014: PRO LOGIC2 MUSIC	o	o	o	o	o	o	o
			0019: PRO LOGIC2x MUSIC	o	o	o	o	o	o	o
			0015: PRO LOGIC2 GAME	o	o	o	o	o	o	o
			0020: PRO LOGIC2x GAME	o	o	o	o	o	o	o
			0031: PRO LOGIC2z Height	o	o	o	o	o	o	o
			0032: WIDE SURROUND MOVIE	o	o	o	o	o	o	o
			0033: WIDE SURROUND MUSIC	o	o	o	o	o	o	o
			0012: PRO LOGIC	o	o	o	o	o	o	o
			0016: Neo:6 CINEMA	o	o	o	o	o	o	o
			0017: Neo:6 MUSIC	o	o	o	o	o	o	o
			0028: XM HD SURROUND	o	o	o	o	o	×	×
			0029: NEURAL SURROUND	o	o	o	o	o	o	o
			0021: (Multi ch source)	o	o	o	o	o	o	o
			0022: (Multi ch source)+DOLBY EX	o	o	o	o	o	o	o
			0023: (Multi ch source)+PRO LOGIC2x MOVIE	o	o	o	o	o	o	o
			0024: (Multi ch source)+PRO LOGIC2x MUSIC	o	o	o	o	o	o	o
			0034: (Multi-ch Source)+PRO LOGIC2z HEIGHT	o	o	o	o	o	o	o
			0035: (Multi-ch Source)+WIDE SURROUND MOVIE	o	o	o	o	o	o	o
			0036: (Multi-ch Source)+WIDE SURROUND MUSIC	o	o	o	o	o	o	o
			0025: DTS-ES Neo:6	o	o	o	o	o	o	o
			0026: DTS-ES matrix	o	o	o	o	o	o	o
			0027: DTS-ES discrete	o	o	o	o	o	o	o
			0030: DTS-ES 8ch discrete	o	o	o	o	o	o	o
			0100: ADVANCED SURROUND (cyclic)	o	o	o	o	o	o	o
			0101: ACTION	o	o	o	o	o	o	o
			0103: DRAMA	o	o	o	o	o	o	o
			0102: SCI-FI	o	o	o	o	o	o	o
			0105: MONO FILM	o	o	o	o	o	o	o
			0104: ENTERTAINMENT SHOW	o	o	o	o	o	o	o
			0106: EXPANDED THEATER	o	o	o	o	o	o	o
			0116: TV SURROUND	o	o	o	o	o	o	o
			0118: ADVANCED GAME	o	o	o	o	o	o	o
			0117: SPORTS	o	o	o	o	o	o	o
			0107: CLASSICAL	o	o	o	o	o	o	o
			0110: ROCK/POP	o	o	o	o	o	o	o
			0109: UNPLUGGED	o	o	o	o	o	o	o
			0112: EXTENDED STEREO	o	o	o	o	o	o	o
			0113: PHONES SURROUND	o	o	o	o	o	o	o
			0050: THX (cyclic)	o	o	o	o	o	×	×
			0051: PROLOGIC + THX CINEMA	o	o	o	o	o	×	×
			0052: PL2 MOVIE + THX CINEMA	o	o	o	o	o	×	×
			0053: Neo:6 CINEMA + THX CINEMA	o	o	o	o	o	×	×
			0054: PL2x MOVIE + THX CINEMA	o	o	o	o	o	×	×
			0092: PL2z HEIGHT + THX CINEMA	o	o	o	o	o	×	×
			0055: THX SELECT2 GAMES	×	o	o	o	o	×	×
			0068: THX CINEMA (for 2ch)	o	o	o	o	o	×	×
			0069: THX MUSIC (for 2ch)	o	o	o	o	o	×	×
			0070: THX GAMES (for 2ch)	o	o	o	o	o	×	×
			0071: PL2 MUSIC + THX MUSIC	o	o	o	o	o	×	×
			0072: PL2x MUSIC + THX MUSIC	o	o	o	o	o	×	×
			0093: PL2z HEIGHT + THX MUSIC	o	o	o	o	o	×	×
			0073: Neo:6 MUSIC + THX MUSIC	o	o	o	o	o	×	×
			0074: PL2 GAME + THX GAMES	o	o	o	o	o	×	×
			0075: PL2x GAME + THX GAMES	o	o	o	o	o	×	×
			0094: PL2z HEIGHT + THX GAMES	o	o	o	o	o	×	×
			0076: THX ULTRA2 GAMES	o	×	×	×	×	×	×
			0077: PROLOGIC + THX MUSIC	×	×	×	×	×	×	×
			0078: PROLOGIC + THX GAMES	×	×	×	×	×	×	×
			0056: THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0057: THX SURROUND EX (for multi ch)	o	o	o	o	o	×	×
			0058: PL2x MOVIE + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0095: PL2z HEIGHT + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0059: ES Neo:6 + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0060: ES MATRIX + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0061: ES DISCRETE + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0067: ES 8ch DISCRETE + THX CINEMA (for multi ch)	o	o	o	o	o	×	×
			0062: THX SELECT2 CINEMA (for multi ch)	×	o	o	o	o	×	×
			0063: THX SELECT2 MUSIC (for multi ch)	×	o	o	o	o	×	×

			0064: THX SELECT2 GAMES (for multi ch)		×	○	○	○	○	×	×
			0065: THX ULTRA2 CINEMA (for multi ch)		○	×	×	×	×	×	×
			0066: THX ULTRA2 MUSIC (for multi ch)		○	×	×	×	×	×	×
			0079: THX ULTRA2 GAMES (for multi ch)		○	×	×	×	×	×	×
			0080: THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0081: THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0082: PL2x MUSIC + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0096: PL2z HEIGHT + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0083: EX + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0097: PL2z HEIGHT + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0084: Neo:6 + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0085: Neo:6 + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0086: ES MATRIX + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0087: ES MATRIX + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0088: ES DISCRETE + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0089: ES DISCRETE + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0090: ES 8CH DISCRETE + THX MUSIC (for multi ch)		○	○	○	○	○	×	×
			0091: ES 8CH DISCRETE + THX GAMES (for multi ch)		○	○	○	○	○	×	×
			0005: AUTO SURR/STREAM DIRECT (cyclic)		○	○	○	○	○	○	○
			0006: AUTO SURROUND		○	○	○	○	○	○	○
			0152: OPTIMUM SURROUND		○	×	×	×	×	×	×
			0151: Auto Level Control (A.L.C.)		○	○	○	○	○	○	○
			0007: DIRECT		○	○	○	○	○	○	○
			0008: PURE DIRECT		○	○	○	○	○	○	○
?S<CR>	Request LISTENING MODE setting.			Command:?S<CR> Response:SR0013<CR+LF> (PRO LOGIC2 MOVIE is selected.)	○	○	○	○	○	○	○
?L<CR>	Request PLAYING LISTENING MODE information. (for display)	LM****<CR+LF>	0001: STEREO	Command:?L<CR> Response:LM1103<CR+LF> (now DOLBY DIGITAL EX mode.) Command:?L<CR> Response:LM0201<CR+LF> (now ACTION mode)	○	○	○	○	○	○	○
			0002: F.S.SURR FOCUS		○	○	○	○	○	○	○
			0003: F.S.SURR WIDE		○	○	○	○	○	○	○
			0004: RETRIEVER AIR		○	○	○	○	○	○	○
			0101: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0102: [](]PLII MOVIE		○	○	○	○	○	○	○
			0103: [](]PLIIx MUSIC		○	○	○	○	○	○	○
			0104: [](]PLII MUSIC		○	○	○	○	○	○	○
			0105: [](]PLIIx GAME		○	○	○	○	○	○	○
			0106: [](]PLII GAME		○	○	○	○	○	○	○
			0107: [](]PROLOGIC		○	○	○	○	○	○	○
			0108: Neo:6 CINEMA		○	○	○	○	○	○	○
			0109: Neo:6 MUSIC		○	○	○	○	○	○	○
			010a: XM HD Surround		○	○	○	○	○	×	×
			010b: NEURAL SURR		○	○	○	○	○	○	○
			010c: 2ch Straight Decode		○	○	○	○	○	○	○
			010d: [](]PLIIz HEIGHT		○	○	○	○	○	○	○
			010e: WIDE SURR MOVIE		○	○	○	○	○	○	○
			010f: WIDE SURR MUSIC		○	○	○	○	○	○	○
			1101: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			1102: [](]PLIIx MUSIC		○	○	○	○	○	○	○
			1103: [](]DIGITAL EX		○	○	○	○	○	○	○
			1104: DTS +Neo:6 / DTS-HD +Neo:6		○	○	○	○	○	○	○
			1105: ES MATRIX		○	○	○	○	○	○	○
			1106: ES DISCRETE		○	○	○	○	○	○	○
			1107: DTS-ES 7.1		○	○	○	○	○	○	○
			1108: multi ch Straight Decode		○	○	○	○	○	○	○
			1109: [](]PLIIz HEIGHT		○	○	○	○	○	○	○
			110a: WIDE SURR MOVIE		○	○	○	○	○	○	○
			110b: WIDE SURR MUSIC		○	○	○	○	○	○	○
			0201: ACTION		○	○	○	○	○	○	○
			0202: DRAMA		○	○	○	○	○	○	○
			0203: SCI-FI		○	○	○	○	○	○	○
			0204: MONOFILM		○	○	○	○	○	○	○
			0205: ENT.SHOW		○	○	○	○	○	○	○
			0206: EXPANDED		○	○	○	○	○	○	○
			0207: TV SURROUND		○	○	○	○	○	○	○
			0208: ADVANCEDGAME		○	○	○	○	○	○	○
			0209: SPORTS		○	○	○	○	○	○	○
			020a: CLASSICAL		○	○	○	○	○	○	○

			020b: ROCK/POP	○	○	○	○	○	○	○
			020c: UNPLUGGED	○	○	○	○	○	○	○
			020d: EXT.STEREO	○	○	○	○	○	○	○
			020e: PHONES SURR.	○	○	○	○	○	○	○
			0301: [)(]PLIIx MOVIE +THX	○	○	○	○	○	×	×
			0302: [)(]PLII MOVIE +THX	○	○	○	○	○	×	×
			0303: [)(]PL +THX CINEMA	○	○	○	○	○	×	×
			0304: Neo:6 CINEMA +THX	○	○	○	○	○	×	×
			0305: THX CINEMA	○	○	○	○	○	×	×
			0306: [)(]PLIIx MUSIC +THX	○	○	○	○	○	×	×
			0307: [)(]PLII MUSIC +THX	○	○	○	○	○	×	×
			0308: [)(]PL +THX MUSIC	○	○	○	○	○	×	×
			0309: Neo:6 MUSIC +THX	○	○	○	○	○	×	×
			030a: THX MUSIC	○	○	○	○	○	×	×
			030b: [)(]PLIIx GAME +THX	○	○	○	○	○	×	×
			030c: [)(]PLII GAME +THX	○	○	○	○	○	×	×
			030d: [)(]PL +THX GAMES	○	○	○	○	○	×	×
			030e: THX ULTRA2 GAMES	○	×	×	×	×	×	×
			030f: THX SELECT2 GAMES	×	○	○	○	○	×	×
			0310: THX GAMES	○	○	○	○	○	×	×
			0311: [)(]PLIIz +THX CINEMA	○	○	○	○	○	×	×
			0312: [)(]PLIIz +THX MUSIC	○	○	○	○	○	×	×
			0313: [)(]PLIIz +THX GAMES	○	○	○	○	○	×	×
			1301: THX Surr EX	○	○	○	○	○	×	×
			1302: Neo:6 +THX CINEMA	○	○	○	○	○	×	×
			1303: ES MTRX +THX CINEMA	○	○	○	○	○	×	×
			1304: ES DISC +THX CINEMA	○	○	○	○	○	×	×
			1305: ES7.1 +THX CINEMA	○	○	○	○	○	×	×
			1306: [)(]PLIIx MOVIE +THX	○	○	○	○	○	×	×
			1307: THX ULTRA2 CINEMA	○	×	×	×	×	×	×
			1308: THX SELECT2 CINEMA	×	○	○	○	○	×	×
			1309: THX CINEMA	○	○	○	○	○	×	×
			130a: Neo:6 +THX MUSIC	○	○	○	○	○	×	×
			130b: ES MTRX +THX MUSIC	○	○	○	○	○	×	×
			130c: ES DISC +THX MUSIC	○	○	○	○	○	×	×
			130d: ES7.1 +THX MUSIC	○	○	○	○	○	×	×
			130e: [)(]PLIIx MUSIC +THX	○	○	○	○	○	×	×
			130f: THX ULTRA2 MUSIC	○	×	×	×	×	×	×
			1310: THX SELECT2 MUSIC	×	○	○	○	○	×	×
			1311: THX MUSIC	○	○	○	○	○	×	×
			1312: Neo:6 +THX GAMES	○	○	○	○	○	×	×
			1313: ES MTRX +THX GAMES	○	○	○	○	○	×	×
			1314: ES DISC +THX GAMES	○	○	○	○	○	×	×
			1315: ES7.1 +THX GAMES	○	○	○	○	○	×	×
			1316: [)(]EX +THX GAMES	○	○	○	○	○	×	×
			1317: THX ULTRA2 GAMES	○	×	×	×	×	×	×
			1318: THX SELECT2 GAMES	×	○	○	○	○	×	×
			1319: THX GAMES	○	○	○	○	○	×	×
			131a: [)(]PLIIz +THX CINEMA	○	○	○	○	○	×	×
			131b: [)(]PLIIz +THX MUSIC	○	○	○	○	○	×	×
			131c: [)(]PLIIz +THX GAMES	○	○	○	○	○	×	×
			0401: STEREO	○	○	○	○	○	○	○
			0402: [)(]PLII MOVIE	○	○	○	○	○	○	○
			0403: [)(]PLIIx MOVIE	○	○	○	○	○	○	○
			0404: Neo:6 CINEMA	○	○	○	○	○	○	○
			0405: AUTO SURROUND Straight Decode	○	○	○	○	○	○	○
			0406: [)(]DIGITAL EX	○	○	○	○	○	○	○
			0407: [)(]PLIIx MOVIE	○	○	○	○	○	○	○
			0408: DTS +Neo:6	○	○	○	○	○	○	○
			0409: ES MATRIX	○	○	○	○	○	○	○
			040a: ES DISCRETE	○	○	○	○	○	○	○
			040b: DTS-ES 7.1	○	○	○	○	○	○	○
			040c: XM HD Surround	○	○	○	○	○	×	×
			040d: NEURALSURR	○	○	○	○	○	○	○
			040e: RETRIEVER AIR	○	○	○	○	○	○	○
			0501: STEREO	○	○	○	○	○	○	○
			0502: [)(]PLII MOVIE	○	○	○	○	○	○	○
			0503: [)(]PLIIx MOVIE	○	○	○	○	○	○	○

			0504: Neo:6 CINEMA		○	○	○	○	○	○	○
			0505: ALC Straight Decode		○	○	○	○	○	○	○
			0506: [](]DIGITAL EX		○	○	○	○	○	○	○
			0507: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0508: DTS +Neo:6		○	○	○	○	○	○	○
			0509: ES MATRIX		○	○	○	○	○	○	○
			050a: ES DISCRETE		○	○	○	○	○	○	○
			050b: DTS-ES 7.1		○	○	○	○	○	○	○
			050c: XM HD Surround		○	○	○	○	○	×	×
			050d: NEURAL SURR		○	○	○	○	○	○	○
			050e: RETRIEVER AIR		○	○	○	○	○	○	○
			0601: STEREO		○	○	○	○	○	○	○
			0602: [](]PLII MOVIE		○	○	○	○	○	○	○
			0603: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0604: Neo:6 CINEMA		○	○	○	○	○	○	○
			0605: STREAM DIRECT NORMAL Straight Decode		○	○	○	○	○	○	○
			0606: [](]DIGITAL EX		○	○	○	○	○	○	○
			0607: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0608: (nothing)		×	×	×	×	×	×	×
			0609: ES MATRIX		○	○	○	○	○	○	○
			060a: ES DISCRETE		○	○	○	○	○	○	○
			060b: DTS-ES 7.1		○	○	○	○	○	○	○
			0701: STREAM DIRECT PURE 2ch		○	○	○	○	○	○	○
			0702: [](]PLII MOVIE		○	○	○	○	○	○	○
			0703: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0704: Neo:6 CINEMA		○	○	○	○	○	○	○
			0705: STREAM DIRECT PURE Straight Decode		○	○	○	○	○	○	○
			0706: [](]DIGITAL EX		○	○	○	○	○	○	○
			0707: [](]PLIIx MOVIE		○	○	○	○	○	○	○
			0708: (nothing)		×	×	×	×	×	×	×
			0709: ES MATRIX		○	○	○	○	○	○	○
			070a: ES DISCRETE		○	○	○	○	○	○	○
			070b: DTS-ES 7.1		○	○	○	○	○	○	○
			0881: OPTIMUM		○	×	×	×	×	×	×
			0e01: HDMI THROUGH		○	○	○	○	○	○	○
			0f01: MULTI CH IN		○	○	○	○	○	○	○

TONE CONTROL

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
TO<CR>	TONE ON/BYPASS	TO*<CR+LF>	0: BYPASS 1: ON		○	○	○	○	○	○	○
?TO<CR>	Request TONE status			Command:?TO<CR> Response:TO0<CR+LF> (now TONE BYPASS.)	○	○	○	○	○	○	○
BI<CR>	BASS INCREMENT	BA**<CR+LF>			○	○	○	○	○	○	○
BD<CR>	BASS DECREMENT		**: 00 to 12 by ASCII code. (1step=1dB)		○	○	○	○	○	○	○
?BA<CR>	Request BASS status		00: +6dB 06: 0dB 12: -6dB	Command:?BA<CR> Response:BA02<CR+LF> (BASS is set to +4dB.)	○	○	○	○	○	○	○
TI<CR>	TREBLE INCREMENT	TR**<CR+LF>			○	○	○	○	○	○	○
TD<CR>	TREBLE DECREMENT				○	○	○	○	○	○	○
?TR<CR>	Request TREBLE status			Command:?TR<CR> Response:TR10<CR+LF> (TREBLE is set to -4dB.)	○	○	○	○	○	○	○

DSP FUNCTION

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
*MC<CR>	MCACC MEMORY SET	MC*<CR+LF>			○	○	○	○	○	○	○

?MC<CR>	Request MCACC MEMORY status		0: MCACC MEMORY (cyclic) 1: MEMORY 1 2: MEMORY 2 3: MEMORY 3 4: MEMORY 4 5: MEMORY 5 6: MEMORY 6	Command:?MC<CR> Response:MC3<CR+LF> (now MEMORY 3 is selected.)	○	○	○	○	○	○	○
*IS<CR>	PHASE CONTROL	IS*<CR+LF>			○	○	○	○	○	○	○
?IS<CR>	Request PHASE CONTROL status		0: PHASE CONTROL OFF 1: PHASE CONTROL ON 2: FULL BAND PHASE CONTROL ON 9: PHASE CONTROL ON/OFF	Command:?IS<CR> Response:IS1<CR+LF> (now PHASE CONTROL ON is selected.)	○	○	○	○	○	○	○
*VSB<CR>	VIRTUAL SB	VSB*<CR+LF>			○	○	○	○	○	○	○
?VSB<CR>	Request VIRTUAL SB status		0: OFF 1: ON 9: ON/OFF	Command:?VSB<CR> Response:VSB0<CR+LF> (now VIRTUAL SB OFF is selected.)	○	○	○	○	○	○	○
*VHT<CR>	VIRTUAL HEIGHT	VHT<CR+LF>			○	○	○	○	○	○	○
?VHT<CR>	Request VIRTUAL HEIGHT status		0: OFF 1: ON 9: ON/OFF	Command:?VHT<CR> Response:VHT1<CR+LF> (now VIRTUAL HEIGHT ON is selected.)	○	○	○	○	○	○	○

CHANNEL LEVEL

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
CLC<CR>	CH SELECT	CLV###**<CR+LF>	#:3byte(CH)+ *:2byte(Value) ###: (CH) L__: Front Left R__: Front Right C__: Center SL_: Surround Left SR_: Surround Right SBL: Surround Back Left SBR: Surround Back Right SW_: Subwoofer LH_: Front Height Left RH_: Front Height Right LW_: Front Wide Left RW_: Front Wide Right **: (Value) 26 to 74 by ASCII code. (1step=0.5dB) 74: +12.0dB (MAX) 52: +1.0dB 51: -0.5dB 50: 0.0dB 49: -0.5dB 48: -1.0dB 26: -12.0dB (MIN)		○	○	○	○	○	○	○
CLU<CR>	CH LEVEL UP				○	○	○	○	○	○	○
CLD<CR>	CH LEVEL DOWN				○	○	○	○	○	○	○
###**CLV<CR>	CH LEVEL DIRECT SET			Command:SL_48CLV<CR> Response:CLVSL_48<CR+LF> (Set to SLch -0.5dB)	○	○	○	○	○	○	○
?###CLV<CR>	Request CH LEVEL			Command:?C__CLV<CR> Response:CLVC__72<CR+LF> (now Cch +11.0dB)	○	○	○	○	○	○	○

AMP FUNCTION

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
*SPK<CR>	SPEAKERS	SPK*<CR+LF>			○	○	○	○	○	○	○
?SPK<CR>	Request SPEAKERS status		0: SPEAKER OFF 1: SPEAKER A ON 2: SPEAKER B ON 3: SPEAKER A+B ON 9: SPEAKERS (cyclic)	Command:?SPK<VR> Response:SPK1<CR+LF> (now SPEAKER A ON.)	○	○	○	○	○	○	○
*HO<CR>	HDMI OUTPUT SELECT	HO*<CR+LF>			○	○	○	×	×	×	×

?HO<CR>	Request HDMI OUTPUT status		0: HDMI OUT ALL 1: HDMI OUT 1 2: HDMI OUT 2 9: HDMI OUT (cyclic)	Command:?HO<CR> Response:HO0<CR+LF> (now HDMI OUT ALL is selected.)	○	○	○	×	×	×	×
*HA<CR>	HDMI AUDIO	HA*<CR+LF>			○	○	○	○	○	○	○
?HA<CR>	Request HDMI AUDIO status		0: AMP 1: THROUGH 9: AMP/THROUGH (cyclic)	Command:?HA<CR> Response:HA0<CR+LF> (now AMP is selected.)	○	○	○	○	○	○	○
*PQ<CR>	PQLS	PQ*<CR+LF>			○	○	○	○	○	○	○
?PQ<CR>	Request PQLS setting status		0: OFF 1: AUTO 9: AUTO/OFF (cyclic)	Command:?PQ<CR> Response:PQ0<CR+LF> (now PQLS setting OFF is selected.)	○	○	○	○	○	○	○

KEY LOCK

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
*PKL<CR>	PANEL KEY LOCK	PKL*<CR+LF>		*PKL<CR>	○	○	○	○	○	○	○
?PKL<CR>	Request PANEL KEY LOCK status		0: PANEL KEY LOCK (& VOLUME) OFF 1: PANEL KEY LOCK ON 2: PANEL KEY & VOLUME LOCK ON	Command:?PKL<CR> Response:PKL1<CR+LF> (now PANEL KEY LOCK ON.)	○	○	○	○	○	○	○
*RML<CR>	REMOTE LOCK	RML*<CR+LF>		*RML<CR>	○	○	○	○	○	○	○
?RML<CR>	Request REMOTE LOCK status		0: REMOTE LOCK OFF 1: REMOTE LOCK ON	Command:?RML<CR> Response:PKL1<CR+LF> (now REMOTE LOCK ON.)	○	○	○	○	○	○	○

CURSOR OPERATION

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
STS<CR>	STATUS DISPLAY	R<CR+LF>			○	○	○	○	○	○	○
CUP<CR>	AMP CURSOR UP	R<CR+LF>			○	○	○	○	○	○	○
CDN<CR>	AMP CURSOR DOWN	R<CR+LF>			○	○	○	○	○	○	○
CRI<CR>	AMP CURSOR RIGHT	R<CR+LF>			○	○	○	○	○	○	○
CLE<CR>	AMP CURSOR LEFT	R<CR+LF>			○	○	○	○	○	○	○
CEN<CR>	AMP CURSOR ENTER	R<CR+LF>			○	○	○	○	○	○	○
CRT<CR>	AMP RETURN	R<CR+LF>			○	○	○	○	○	○	○
APA<CR>	AUDIO PARAMETER	R<CR+LF>			○	○	○	○	○	○	○
VPA<CR>	VIDEO PARAMETER	R<CR+LF>			○	○	○	○	○	○	○
HM<CR>	HOME MENU	R<CR+LF>			○	○	○	○	○	○	○
KOF<CR>	KEY OFF (for iPod, NETWORK)	R<CR+LF>	When this equipment continue command mode after sending the operation command, it needs to send "KOF" command.		○	○	○	○	○	○	○

ZONE POWER

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
APO<CR>	ZONE 2 POWER ON	APR*<CR+LF>	0: ON 1: OFF		○	○	○	○	○	○	○
APF<CR>	ZONE 2 POWER OFF				○	○	○	○	○	○	○
?AP<CR>	Request ZONE 2 POWER status			Command:?AP<CR> Response:APR0<CR+LF> (ZONE 2 POWER ON)	○	○	○	○	○	○	○
BPO<CR>	ZONE 3 POWER ON	BPR*<CR+LF>			○	○	○	×	×	×	×
BPF<CR>	ZONE 3 POWER OFF				○	○	○	×	×	×	×
?BP<CR>	Request ZONE 3 POWER status			Command:?BP<CR> Response:BPR1<CR+LF> (ZONE 3 POWER OFF)	○	○	○	×	×	×	×

ZONE INPUT

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
**ZS<CR>	ZONE 2 INPUT CHANGE	Z2F**<CR+LF>	04: DVD	02ZS<CR>	o	o	o	o	o	o	o
			05: TV/SAT	(change to TUNER INPUT.)	o	o	o	o	o	o	o
			15: DVR/BDR		o	o	o	o	o	o	o
			10: VIDEO 1(VIDEO)		o	o	o	o	o	o	o
			14: VIDEO 2		×	×	×	×	×	×	o
			26: HOME MEDIA GALLERY(Internet Radio)		o	o	o	o	o	o	×
			17: iPod/USB		o	o	o	o	o	o	×
			18: XM RADIO		o	o	o	o	o	×	×
			01: CD		o	o	o	o	o	o	o
			03: CD-R/TAPE		o	o	o	o	o	o	o
			02: TUNER		o	o	o	o	o	o	o
			33: ADAPTER PORT		o	o	o	o	o	o	o
			27: SIRIUS		o	o	o	o	o	o	×
?ZS<CR>	Request ZONE 2 INPUT			Command:?ZS<CR> Response:Z2F04<CR+LF> (DVD is selected.)	o	o	o	o	o	o	o
**ZT<CR>	ZONE 3 INPUT CHANGE	Z3F**<CR+LF>	04: DVD	03TS<CR>	o	o	o	×	×	×	×
			05: TV/SAT	(change to CD-R INPUT.)	o	o	o	×	×	×	×
			15: DVR/BDR		o	o	o	×	×	×	×
			10: VIDEO 1(VIDEO)		o	o	o	×	×	×	×
			14: VIDEO 2		×	×	×	×	×	×	×
			26: HOME MEDIA GALLERY(Internet Radio)		o	×	×	×	×	×	×
			17: iPod/USB		o	×	×	×	×	×	×
			18: XM RADIO		o	×	×	×	×	×	×
			01: CD		o	o	o	×	×	×	×
			03: CD-R/TAPE		o	o	o	×	×	×	×
			02: TUNER		o	o	o	×	×	×	×
			33: ADAPTER PORT		o	o	o	×	×	×	×
			27: SIRIUS		o	×	×	×	×	×	×
?ZT<CR>	Request ZONE 3 INPUT			Command:?ZT<CR> Response:Z2F01<CR+LF> (CD is selected.)	o	o	o	×	×	×	×

ZONE VOLUME

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
ZU<CR>	ZONE 2 VOLUME UP	ZV**<CR+LF>			o	o	o	o	o	o	o
ZD<CR>	ZONE 2 VOLUME DOWN		**: 00 to 81 by ASCII code.		o	o	o	o	o	o	o
**ZV<CR>	ZONE 2 VOLUME SET		(1step=1dB)	14ZV<CR> (set ZONE 2 VOLUME to -67.0dB)	o	o	o	o	o	o	o
?ZV<CR>	Request ZONE 2 VOLUME LEVEL.		81: 0.0dB 01: -80.0dB 00: ---dB(MIN)	Command:?ZV<CR> Response:ZV14<CR+LF> (ZONE 2 VOLUME is set to -67.0dB)	o	o	o	o	o	o	o
YU<CR>	ZONE 3 VOLUME UP	YV**<CR+LF>			×	×	×	×	×	×	×
YD<CR>	ZONE 3 VOLUME DOWN				×	×	×	×	×	×	×
**YV<CR>	ZONE 3 VOLUME SET			25YV<CR> (set ZONE 3 VOLUME -56.0dB)	×	×	×	×	×	×	×
?YV<CR>	Request ZONE 3 VOLUME LEVEL.			Command:?YV<CR> Response:YV25<CR+LF> (ZONE 3 VOLUME is set to -56.0dB)	×	×	×	×	×	×	×

ZONE MUTE

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
Z2MO<CR>	ZONE 2 MUTE ON	Z2MUT*<CR+LF>	0: ON 1: OFF		o	o	o	o	o	o	o
Z2MF<CR>	ZONE 2 MUTE OFF				o	o	o	o	o	o	o
?Z2M<CR>	Request ZONE 2 MUTE status			Command:?Z2M<CR> Response:Z2MUT1<CR+LF> (now ZONE 2 MUTE OFF)	o	o	o	o	o	o	o
Z3MO<CR>	ZONE 3 MUTE ON	Z3MUT*<CR+LF>			×	×	×	×	×	×	×
Z3MF<CR>	ZONE 3 MUTE OFF				×	×	×	×	×	×	×
?Z3M<CR>	Request ZONE 3 MUTE status			Command:?Z3M<CR> Response:Z3MUT0<CR+LF> (now ZONE 3 MUTE ON)	×	×	×	×	×	×	×

TUNER

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
TFI<CR>	TUNER FREQ INCREMENT	FR*****<CR+LF>			o	o	o	o	o	o	o
TFD<CR>	TUNER FREQ DECREMENT				o	o	o	o	o	o	o
?FR<CR>	Request TUNER FREQUENCY		A: AM F: FM FREQUENCY: 0 to 9 by ASCII code A00530=AM 530kHz A01700=AM 1700kHz F08750=FM 87.50MHz F10800=FM 108.00MHz	Command:?FR<CR> Response:FRF08800<CR+LF> (now FM 88.00MHz)	o	o	o	o	o	o	o
TB<CR>	TUNER BAND				o	o	o	o	o	o	o
*TP<CR>	TUNER PRESET (DIGIT key)	PR***<CR+LF>	*: 0 to 9 by ASCII code.	8TP<CR> (set to preset number 8.)	o	o	o	o	o	o	o
TC<CR>	TUNER CLASS change		A01: CLASS "A",NUMBER 1 … … G09: CLASS "G",NUMBER 9 (CLASS = A to G, NUMBER = 01 to 09)		o	o	o	o	o	o	o
TPI<CR>	TUNER PRESET INCREMENT				o	o	o	o	o	o	o
TPD<CR>	TUNER PRESET DECREMENT				o	o	o	o	o	o	o
?PR<CR>	Request TUNER PRESET No.			Command:?PR<CR> Response:PRB04<CR+LF> (now tuner preset No. is B4)	o	o	o	o	o	o	o
TAC<CR>	DIRECT ACCESS	R<CR+LF>		Command: TAC<CR>8TP<CR>7TP<CR>5TP<CR>0TP<CR> (87.50MHz direct set)	o	o	o	o	o	o	o

XM radio Operation (USA model only)

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
00XM<CR>	0 (number key)	XM***<CR+LF>	***: Channel number by ASCII code.		o	o	o	o	o	×	×
01XM<CR>	1 (number key)	(↑when change channel)			o	o	o	o	o	×	×
02XM<CR>	2 (number key)				o	o	o	o	o	×	×
03XM<CR>	3 (number key)				o	o	o	o	o	×	×
04XM<CR>	4 (number key)				o	o	o	o	o	×	×
05XM<CR>	5 (number key)				o	o	o	o	o	×	×
06XM<CR>	6 (number key)				o	o	o	o	o	×	×
07XM<CR>	7 (number key)				o	o	o	o	o	×	×
08XM<CR>	8 (number key)				o	o	o	o	o	×	×
09XM<CR>	9 (number key)				o	o	o	o	o	×	×
10XM<CR>	CH + / Cursol DOWN↓				o	o	o	o	o	×	×
11XM<CR>	CH - / Cursol UP↑				o	o	o	o	o	×	×
12XM<CR>	PRESET ST + (→)				o	o	o	o	o	×	×
13XM<CR>	PRESET ST - (←)				o	o	o	o	o	×	×
14XM<CR>	DISPLAY				o	o	o	o	o	×	×
15XM<CR>	PRESET				o	o	o	o	o	×	×
16XM<CR>	CLASS				o	o	o	o	o	×	×
17XM<CR>	DIRECT ACCESS(CH)				o	o	o	o	o	×	×
18XM<CR>	MEMORY (EDIT)				o	o	o	o	o	×	×
19XM<CR>	MENU				o	o	o	o	o	×	×
21XM<CR>	ENTER				o	o	o	o	o	×	×
22XM<CR>	RETURN				o	o	o	o	o	×	×
23XM<CR>	CATEGORY				o	o	o	o	o	×	×
?XM<CR>	Request XM channel No.			Command:?XM<CR> Response:XM025<CR+LF> (now channel 25 is selected.)	o	o	o	o	o	×	×

Sirius Operation (USA model only)

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
00SI<CR>	0 (number key)	SIR***<CR+LF>	***: Channel number by ASCII code.		o	o	o	o	o	o	o
01SI<CR>	1 (number key)	(↑when change channel)			o	o	o	o	o	o	o
02SI<CR>	2 (number key)				o	o	o	o	o	o	o
03SI<CR>	3 (number key)				o	o	o	o	o	o	o
04SI<CR>	4 (number key)				o	o	o	o	o	o	o
05SI<CR>	5 (number key)				o	o	o	o	o	o	o
06SI<CR>	6 (number key)				o	o	o	o	o	o	o
07SI<CR>	7 (number key)				o	o	o	o	o	o	o
08SI<CR>	8 (number key)				o	o	o	o	o	o	o
09SI<CR>	9 (number key)				o	o	o	o	o	o	o
10SI<CR>	CH + / Cursol DOWN↓				o	o	o	o	o	o	o
11SI<CR>	CH - / Cursol UP↑				o	o	o	o	o	o	o
12SI<CR>	PRESET ST + (→)				o	o	o	o	o	o	o
13SI<CR>	PRESET ST - (←)				o	o	o	o	o	o	o
14SI<CR>	DISPLAY				o	o	o	o	o	o	o
15SI<CR>	PRESET				o	o	o	o	o	o	o
16SI<CR>	CLASS				o	o	o	o	o	o	o

17SI<CR>	DIRECT ACCESS(CH)				○	○	○	○	○	○	○
18SI<CR>	MEMORY (EDIT)				○	○	○	○	○	○	○
19SI<CR>	MENU				○	○	○	○	○	○	○
21SI<CR>	ENTER				○	○	○	○	○	○	○
22SI<CR>	RETURN				○	○	○	○	○	○	○
23SI<CR>	CATEGORY				○	○	○	○	○	○	○
?SIR<CR>	Request SIRIUS channel No.			Command:?SIR<CR> Response:SIR019<CR+LF> (now channel 19 is selected.)	○	○	○	○	○	○	○

iPod Operation

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
00IP<CR>	PLAY	R<CR+LF>	※note: Almost iPod cannot correspond stop function, in this case, no response.		○	○	○	○	○	○	○
01IP<CR>	PAUSE				○	○	○	○	○	○	○
02IP<CR>	STOP※				○	○	○	○	○	○	○
03IP<CR>	PREVIOUS (|<|<|)				○	○	○	○	○	○	○
04IP<CR>	NEXT (|>|>|)				○	○	○	○	○	○	○
05IP<CR>	REV (<|<|)			05IP<CR> (start REV) KOF<CR> (stop REV)	○	○	○	○	○	○	○
06IP<CR>	FWD (|>|>)			06IP<CR> (start FWD) KOF<CR> (stop FWD)	○	○	○	○	○	○	○
07IP<CR>	REPEAT				○	○	○	○	○	○	○
08IP<CR>	SHUFFLE				○	○	○	○	○	○	○
09IP<CR>	DISPLAY				○	○	○	○	○	○	○
10IP<CR>	iPod CONTROL				○	○	○	○	○	○	○
13IP<CR>	Cursor UP				○	○	○	○	○	○	○
14IP<CR>	Cursor DOWN				○	○	○	○	○	○	○
15IP<CR>	Cursor RIGHT				○	○	○	○	○	○	○
16IP<CR>	Cursor LEFT				○	○	○	○	○	○	○
17IP<CR>	ENTER				○	○	○	○	○	○	○
18IP<CR>	RETURN				○	○	○	○	○	○	○
19IP<CR>	TOP MENU				○	○	○	○	○	○	○

Home Media Gallery Operation

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
00NW<CR>	0 (number key)	R<CR+LF>			○	○	○	○	○	○	○
01NW<CR>	1 (number key)				○	○	○	○	○	○	○
02NW<CR>	2 (number key)				○	○	○	○	○	○	○
03NW<CR>	3 (number key)				○	○	○	○	○	○	○
04NW<CR>	4 (number key)				○	○	○	○	○	○	○
05NW<CR>	5 (number key)				○	○	○	○	○	○	○
06NW<CR>	6 (number key)				○	○	○	○	○	○	○
07NW<CR>	7 (number key)				○	○	○	○	○	○	○
08NW<CR>	8 (number key)				○	○	○	○	○	○	○
09NW<CR>	9 (number key)				○	○	○	○	○	○	○
10NW<CR>	PLAY				○	○	○	○	○	○	○
11NW<CR>	PAUSE				○	○	○	○	○	○	○

12NW<CR>	PREVIOUS (|<|<|)					○	○	○	○	○	○	○
13NW<CR>	NEXT (|>|>|)					○	○	○	○	○	○	○
18NW<CR>	DISPLAY					○	○	○	○	○	○	○
20NW<CR>	STOP					○	○	○	○	○	○	○
26NW<CR>	UP					○	○	○	○	○	○	○
27NW<CR>	DOWN					○	○	○	○	○	○	○
28NW<CR>	RIGHT					○	○	○	○	○	○	○
29NW<CR>	LEFT					○	○	○	○	○	○	○
30NW<CR>	ENTER					○	○	○	○	○	○	○
31NW<CR>	RETURN					○	○	○	○	○	○	○
32NW<CR>	PROGRAM					○	○	○	○	○	○	○
33NW<CR>	CLEAR					○	○	○	○	○	○	○
34NW<CR>	REPEAT					○	○	○	○	○	○	○
35NW<CR>	RANDOM					○	○	○	○	○	○	○
36NW<CR>	MENU					○	○	○	○	○	○	○
37NW<CR>	EDIT					○	○	○	○	○	○	○
38NW<CR>	CLASS					○	○	○	○	○	○	○

ADAPTER PORT Operation

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
20BT<CR>	PLAY/PAUSE	R<CR+LF>			×	×	×	×	×	×	×
10BT<CR>	PLAY				○	○	○	○	○	○	○
11BT<CR>	PAUSE				○	○	○	○	○	○	○
12BT<CR>	STOP				○	○	○	○	○	○	○
13BT<CR>	PREVIOUS (|<|<|)				○	○	○	○	○	○	○
14BT<CR>	NEXT (|>|>|)				○	○	○	○	○	○	○
15BT<CR>	REV (<|<|)				○	○	○	○	○	○	○
16BT<CR>	FWD (|>|>)				○	○	○	○	○	○	○

Error message

Error Messa	Error Name	Meaning	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
E04<CR+LF>	COMMAND ERROR	Detect inappropriate Command line.	Command:ABCD<CR> Response:E04<CR+LF> (unknown "ABCD" Command.)	○	○	○	○	○	○	○
E06<CR+LF>	PARAMETER ERROR	Detect inappropriate Parameter.	Command:99FN<CR> Response:E06<CR+LF> (unknown "99" Parameter.)	○	○	○	○	○	○	○
B00<CR+LF>	BUSY	Now AV Receiver is Busy. Please wait few seconds.		○	○	○	○	○	○	○

KEYBORD Operation

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
FG20<CR>	SP (space)	R<CR+LF>	only used keyboard input function		o	o	o	o	o	o	o
FG21<CR>	!				o	o	o	o	o	o	o
FG22<CR>	"				o	o	o	o	o	o	o
FG23<CR>	#				o	o	o	o	o	o	o
FG24<CR>	$				o	o	o	o	o	o	o
FG25<CR>	%				o	o	o	o	o	o	o
FG26<CR>	&				o	o	o	o	o	o	o
FG27<CR>	'				o	o	o	o	o	o	o
FG28<CR>	(				o	o	o	o	o	o	o
FG29<CR>	)				o	o	o	o	o	o	o
FG2A<CR>	*				o	o	o	o	o	o	o
FG2B<CR>	+				o	o	o	o	o	o	o
FG2C<CR>	,				o	o	o	o	o	o	o
FG2D<CR>	-				o	o	o	o	o	o	o
FG2E<CR>	.				o	o	o	o	o	o	o
FG2F<CR>	/				o	o	o	o	o	o	o
FG30<CR>	0				o	o	o	o	o	o	o
FG31<CR>	1				o	o	o	o	o	o	o
FG32<CR>	2				o	o	o	o	o	o	o
FG33<CR>	3				o	o	o	o	o	o	o
FG34<CR>	4				o	o	o	o	o	o	o
FG35<CR>	5				o	o	o	o	o	o	o
FG36<CR>	6				o	o	o	o	o	o	o
FG37<CR>	7				o	o	o	o	o	o	o
FG38<CR>	8				o	o	o	o	o	o	o
FG39<CR>	9				o	o	o	o	o	o	o
FG3A<CR>	:				o	o	o	o	o	o	o
FG3B<CR>	;				o	o	o	o	o	o	o
FG3C<CR>	<				o	o	o	o	o	o	o
FG3D<CR>	=				o	o	o	o	o	o	o
FG3E<CR>	>				o	o	o	o	o	o	o
FG3F<CR>	?				o	o	o	o	o	o	o
FG40<CR>	@				o	o	o	o	o	o	o
FG41<CR>	A				o	o	o	o	o	o	o
FG42<CR>	B				o	o	o	o	o	o	o
FG43<CR>	C				o	o	o	o	o	o	o
FG44<CR>	D				o	o	o	o	o	o	o
FG45<CR>	E				o	o	o	o	o	o	o
FG46<CR>	F				o	o	o	o	o	o	o
FG47<CR>	G				o	o	o	o	o	o	o
FG48<CR>	H				o	o	o	o	o	o	o
FG49<CR>	I				o	o	o	o	o	o	o
FG4A<CR>	J				o	o	o	o	o	o	o
FG4B<CR>	K				o	o	o	o	o	o	o
FG4C<CR>	L				o	o	o	o	o	o	o
FG4D<CR>	M				o	o	o	o	o	o	o
FG4E<CR>	N				o	o	o	o	o	o	o
FG4F<CR>	O				o	o	o	o	o	o	o
FG50<CR>	P				o	o	o	o	o	o	o
FG51<CR>	Q				o	o	o	o	o	o	o
FG52<CR>	R				o	o	o	o	o	o	o
FG53<CR>	S				o	o	o	o	o	o	o
FG54<CR>	T				o	o	o	o	o	o	o
FG55<CR>	U				o	o	o	o	o	o	o
FG56<CR>	V				o	o	o	o	o	o	o
FG57<CR>	W				o	o	o	o	o	o	o
FG58<CR>	X				o	o	o	o	o	o	o

FG59<CR>	Y			○	○	○	○	○	○	○			
FG5A<CR>	Z			○	○	○	○	○	○	○			
FG5B<CR>	[			○	○	○	○	○	○	○			
FG5C<CR>	＼ (便宜上全角)			○	○	○	○	○	○	○			
FG5D<CR>	]			○	○	○	○	○	○	○			
FG5E<CR>	^			○	○	○	○	○	○	○			
FG5F<CR>	_			○	○	○	○	○	○	○			
FG60<CR>	`			○	○	○	○	○	○	○			
FG61<CR>	a			○	○	○	○	○	○	○			
FG62<CR>	b			○	○	○	○	○	○	○			
FG63<CR>	c			○	○	○	○	○	○	○			
FG64<CR>	d			○	○	○	○	○	○	○			
FG65<CR>	e			○	○	○	○	○	○	○			
FG66<CR>	f			○	○	○	○	○	○	○			
FG67<CR>	g			○	○	○	○	○	○	○			
FG68<CR>	h			○	○	○	○	○	○	○			
FG69<CR>	i			○	○	○	○	○	○	○			
FG6A<CR>	j			○	○	○	○	○	○	○			
FG6B<CR>	k			○	○	○	○	○	○	○			
FG6C<CR>	l			○	○	○	○	○	○	○			
FG6D<CR>	m			○	○	○	○	○	○	○			
FG6E<CR>	n			○	○	○	○	○	○	○			
FG6F<CR>	o			○	○	○	○	○	○	○			
FG70<CR>	p			○	○	○	○	○	○	○			
FG71<CR>	q			○	○	○	○	○	○	○			
FG72<CR>	r			○	○	○	○	○	○	○			
FG73<CR>	s			○	○	○	○	○	○	○			
FG74<CR>	t			○	○	○	○	○	○	○			
FG75<CR>	u			○	○	○	○	○	○	○			
FG76<CR>	v			○	○	○	○	○	○	○			
FG77<CR>	w			○	○	○	○	○	○	○			
FG78<CR>	x			○	○	○	○	○	○	○			
FG79<CR>	y			○	○	○	○	○	○	○			
FG7A<CR>	z			○	○	○	○	○	○	○			
FG7B<CR>	{			○	○	○	○	○	○	○			
FG7C<CR>	|			○	○	○	○	○	○	○			
FG7D<CR>	}			○	○	○	○	○	○	○			
FG7E<CR>	~			○	○	○	○	○	○	○			
FGTB<CR>	TAB			○	○	○	○	○	○	○			
FGDL<CR>	DELETE			○	○	○	○	○	○	○			
FGBS<CR>	BACK SPACE			○	○	○	○	○	○	○			
FGPU<CR>	PAGE UP			×	×	×	×	×	×	×			
FGPD<CR>	PAGE DOWN			×	×	×	×	×	×	×			
FGCL<CR>	CAPS LOCK			×	×	×	×	×	×	×			
FGNL<CR>	NUM LOCK			×	×	×	×	×	×	×			

Information Request

Command	Function	Response	Parameter	Example	SC-37 /UXJCB	SC-35 /UXJCB	VSX-33 /UXJCB	VSX-32 /UXJCB	VSX-1120 /UXJCB	VSX-31 /UXCNCB	VSX-30 /UXCNCB
?FL<CR>	Request FL display information (Only RS232C is guaranteed.)	FL*<CR+LF>	See "command list3" sheet.		○	○	○	○	○	○	○
?AST<CR>	Request AUDIO information	AST*<CR+LF>	See "command list2" sheet.		○	○	○	○	○	○	○
?VST<CR>	Request VIDEO information	VST*<CR+LF>	See "command list2" sheet.		○	○	○	○	○	○	○
?RGB**<CR>	Request Input Name information	RGB*<CR+LF>	See "command list3" sheet.		○	○	○	○	○	○	○

Pioneer

Request AUDIO information Parameter by ASCII code

?AST<CR>
AST(data1)(data2)……(data32)(data33)<CR+LF>
ex DOLBY DIGITAL 3/2/.1 in PRO LOGIC2 MOVIE playing, SP setting 7.1ch(SBch*2),
AST0502111110001000000011111101100000<CR+LF>

data1～data2:Audio Input Signal

Data	Parameter	Signal
(data1)(data2)	00	ANALOG
	01	ANALOG
	02	ANALOG
	03	PCM
	04	PCM
	05	DOLBY DIGITAL
	06	DTS
	07	DTS-ES Matrix
	08	DTS-ES Discrete
	09	DTS 96/24
	10	DTS 96/24 ES Matrix
	11	DTS 96/24 ES Discrete
	12	MPEG-2 AAC
	13	WMA9 Pro
	14	DSD->PCM
	15	HDMI THROUGH
	16	DOLBY DIGITAL PLUS
	17	DOLBY TrueHD
	18	DTS EXPRESS
	19	DTS-HD Master Audio
	20	DTS-HD High Resolution
	21	DTS-HD High Resolution
	22	DTS-HD High Resolution
	23	DTS-HD High Resolution
	24	DTS-HD High Resolution
	25	DTS-HD High Resolution
	26	DTS-HD High Resolution
	27	DTS-HD Master Audio

data3～data4:Audio Input Frequency

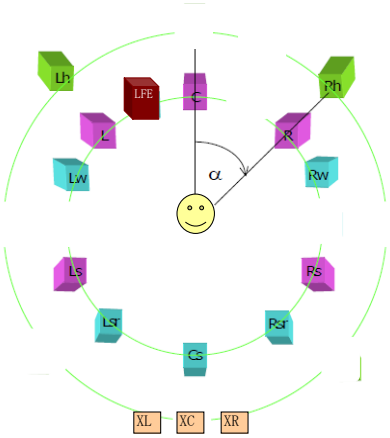
Data	Parameter	Frequency
(data3)(data4)	00	32kHz
	01	44.1kHz
	02	48kHz
	03	88.2kHz
	04	96kHz
	05	176.4kHz
	06	192kHz

data5～data20:Audio Input Channel Format

Data	Parameter	Channel Format info
(data5)	0 or 1	L : L
(data6)	0 or 1	C : C
(data7)	0 or 1	R : R
(data8)	0 or 1	SL : Ls
(data9)	0 or 1	SR : Rs
(data10)	0 or 1	SBL : Lsr,Lrs,Lb
(data11)	0 or 1	S : Cs,ES,EX,LtRt
(data12)	0 or 1	SBR : Rsr,Rrs,Rb
(data13)	0 or 1	LFE : LFE
(data14)	0 or 1	FHL : Lh,Lvh
(data15)	0 or 1	FHR : Rh,Rvh
(data16)	0 or 1	FWL : Lw
(data17)	0 or 1	FWR : Rw
(data18)	0 or 1	XL : Lhs,Lhr,Lss,Lc,Lsd,
(data19)	0 or 1	XC : Ts,Oh,Ch,Chr,LFE2,Cvh
(data20)	0 or 1	XR : Rhs,Rhr,Rss,Rc,Rsd,

data21～data33:Audio Output Channel

Data	Parameter	Output Channel
(data21)	0 or 1	L
(data22)	0 or 1	C
(data23)	0 or 1	R
(data24)	0 or 1	SL
(data25)	0 or 1	SR
(data26)	0 or 1	SBL
(data27)	0 or 1	SB
(data28)	0 or 1	SBR
(data29)	0 or 1	SW
(data30)	0 or 1	FHL
(data31)	0 or 1	FHR
(data32)	0 or 1	FWL
(data33)	0 or 1	FWR


Lh
LFE
C
Rh
L
R
Lw
α
Rw
Ls
Rs
Lsr
Rsr
Cs
XL
XC
XR

Request VIDEO information Parameter by ASCII code

?VST<CR>
VST(data1)(data2)……(data24)(data25)<CR+LF>

data1:Input Terminal

Data	Parameter	Signal from below
(data1)	0	---
	1	VIDEO
	2	S-VIDEO
	3	COMPONENT
	4	HDMI
	5	Self OSD/JPEG

data2～3:Input Resolution

Data	Parameter	Signal Format
(data2)(data3)	00	---
	01	480/60i
	02	576/50i
	03	480/60p
	04	576/50p
	05	720/60p
	06	720/50p
	07	1080/60i
	08	1080/50i
	09	1080/60p
	10	1080/50p
	11	1080/24p

data4:Input aspect

Data	Parameter	Signal Format
(data4)	0	---
	1	4:3
	2	16:9
	3	14:9

data5:Input color format(HDMI only)

Data	Parameter	Signal Format
(data5)	0	---
	1	RGB Limit
	2	RGB Full
	3	YcbCr444
	4	YcbCr422

data6:Input bit(HDMI only)

Data	Parameter	Signal Format
(data7)	0	---
	1	24bit (8bit*3)
	2	30bit (10bit*3)
	3	36bit (12bit*3)
	4	48bit (16bit*3)

data7:Input extend color space(HDMI only)

Data	Parameter	Signal Format
(data7)	0	---
	1	Standard
	2	xvYCC601
	3	xvYCC709
	4	sYCC
	5	AdobeYCC601
	6	AdobeRGB

data8～9:Output Resolution

Data	Parameter	Signal Format
(data8)(data9)	00	---
	01	480/60i
	02	576/50i
	03	480/60p
	04	576/50p
	05	720/60p
	06	720/50p
	07	1080/60i
	08	1080/50i
	09	1080/60p
	10	1080/50p
	11	1080/24p

data10:Output aspect

Data	Parameter	Signal Format
(data10)	0	---
	1	4:3
	2	16:9
	3	14:9

data11:Output color format(HDMI only)

Data	Parameter	Signal Format
(data11)	0	---
	1	RGB Limit
	2	RGB Full
	3	YcbCr444
	4	YcbCr422

data12:Output bit(HDMI only)

Data	Parameter	Signal Format
(data12)	0	---
	1	24bit (8bit*3)
	2	30bit (10bit*3)
	3	36bit (12bit*3)
	4	48bit (16bit*3)

data13:Output extend color space(HDMI only)

Data	Parameter	Signal Format
(data13)	0	---
	1	Standard
	2	xvYCC601
	3	xvYCC709
	4	sYCC
	5	AdobeYCC601
	6	AdobeRGB

data14～15:HDMI 1 Monitor Recommend Resolution Information

Data	Parameter	Recommend Signal Format
(data14)(data15)	00	---
	01	480/60i
	02	576/50i
	03	480/60p
	04	576/50p
	05	720/60p
	06	720/50p
	07	1080/60i
	08	1080/50i
	09	1080/60p
	10	1080/50p
	11	1080/24p

data16:HDMI 1 Monitor DeepColor

Data	Parameter	Signal Format
(data16)	0	---
	1	24bit (8bit*3)
	2	30bit (10bit*3)
	3	36bit (12bit*3)
	4	48bit (16bit*3)

data17～21:HDMI 1 Monitor Extend Color Space

Data	Parameter	Correspondence Format
(data17)	0 or 1	xvYCC601
(data18)	0 or 1	xvYCC709
(data19)	0 or 1	sYCC
(data20)	0 or 1	AdobeYCC601
(data21)	0 or 1	AdobeRGB

data22～23:HDMI 2 Monitor Recommend Resolution Information

Data	Parameter	Signal Format
(data22)(data23)	00	---
	01	480/60i
	02	576/50i
	03	480/60p
	04	576/50p
	05	720/60p
	06	720/50p
	07	1080/60i
	08	1080/50i
	09	1080/60p
	10	1080/50p
	11	1080/24p

data24:HDMI 2 Monitor DeepColor

Data	Parameter	Signal Format
(data24)	0	---
	1	24bit (8bit*3)
	2	30bit (10bit*3)
	3	36bit (12bit*3)
	4	48bit (16bit*3)

data25～29:HDMI 2 Monitor Extend Color Space

Data	Parameter	Correspondence Format
(data25)	0 or 1	xvYCC601
(data26)	0 or 1	xvYCC709
(data27)	0 or 1	sYCC
(data28)	0 or 1	AdobeYCC601
(data29)	0 or 1	AdobeRGB

About Request FL display information

?FL<CR> (Only RS232C is guaranteed.)
FL(data1)(data2)……(data29)(data30)<CR+LF>
ex) When " [)(]DIGITAL EX " is displayed, a response command are,
FL0000050644494749544 14C00455800<CR+LF>

Data	Parameter		
(data1)(data2)	The value that made FL action information ASCII Code.	bit7(MSB)	Reserved
		bit6	Reserved
		bit5	Reserved
		bit4	Reserved
		bit3	Reserved
		bit2	Reserved
		bit1	Information of VOLUME display 1:light, 0:OFF
		bit0(LSB)	Information of Guid icon 1:light, 0:OFF
(data3)(data4)	The 1st character data of FL (left side) .		
(data5)(data6)	The 2nd character data of FL.		
(data7)(data8)	The 3rd character data of FL.		
(data9)(data10)	The 4th character data of FL.		
(data11)(data12)	The 5th character data of FL.		
(data13)(data14)	The 6th character data of FL.		
(data15)(data16)	The 7th character data of FL.		
(data17)(data18)	The 8th character data of FL.		
(data19)(data20)	The 9th character data of FL.		
(data21)(data22)	The 10th character data of FL.		
(data23)(data24)	The 11th character data of FL.		
(data25)(data26)	The 12th character data of FL.		
(data27)(data28)	The 13th character data of FL.		
(data29)(data30)	The 14th character data of FL(right side).		

About Request Input Name information

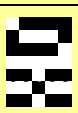
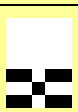
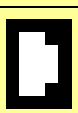
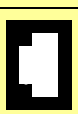
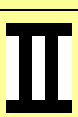
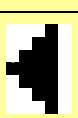
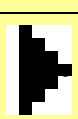
?RGB**<CR>
ex) AT the case of DVD input name is renamed "PIONEER GT",
?RGB04<CR>
RGB041PIONEER GT<CR+LF>

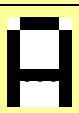
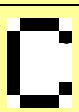
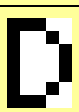
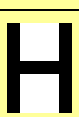
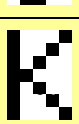
Input	Command	Response
DVD	?RGB04<CR>	RGB04*(Rename data MAX14 character) <CR+LF>
BD	?RGB25<CR>	RGB25*(Rename data MAX14 character) <CR+LF>
TV/SAT	?RGB05<CR>	RGB05*(Rename data MAX14 character) <CR+LF>
DVR/BDR	?RGB15<CR>	RGB15*(Rename data MAX14 character) <CR+LF>
VIDEO 1(VIDEO)	?RGB10<CR>	RGB10*(Rename data MAX14 character) <CR+LF>
VIDEO 2	?RGB14<CR>	RGB14*(Rename data MAX14 character) <CR+LF>
HDMI 1	?RGB19<CR>	RGB19*(Rename data MAX14 character) <CR+LF>
HDMI 2	?RGB20<CR>	RGB20*(Rename data MAX14 character) <CR+LF>
HDMI 3	?RGB21<CR>	RGB21*(Rename data MAX14 character) <CR+LF>
HDMI 4	?RGB22<CR>	RGB22*(Rename data MAX14 character) <CR+LF>
HDMI 5	?RGB23<CR>	RGB23*(Rename data MAX14 character) <CR+LF>
HOME MEDIA GALLERY(Internet Rad	?RGB26<CR>	RGB26*(Rename data MAX14 character) <CR+LF>
iPod/USB	?RGB17<CR>	RGB17*(Rename data MAX14 character) <CR+LF>
XM RADIO	?RGB18<CR>	RGB18*(Rename data MAX14 character) <CR+LF>
CD	?RGB01<CR>	RGB01*(Rename data MAX14 character) <CR+LF>
CD-R/TAPE	?RGB03<CR>	RGB03*(Rename data MAX14 character) <CR+LF>
TUNER	?RGB02<CR>	RGB02*(Rename data MAX14 character) <CR+LF>
PHONO	?RGB00<CR>	RGB00*(Rename data MAX14 character) <CR+LF>
MULTI CH IN	?RGB12<CR>	RGB12*(Rename data MAX14 character) <CR+LF>
ADAPTER PORT	?RGB33<CR>	RGB33*(Rename data MAX14 character) <CR+LF>
SIRIUS	?RGB27<CR>	RGB27*(Rename data MAX14 character) <CR+LF>

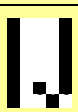
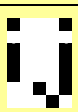
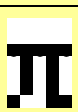
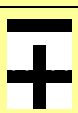
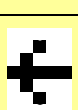
↓
0 : Default name, 1:Rename

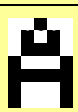
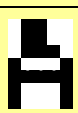
Pioneer

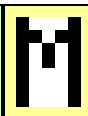
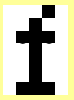
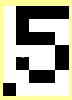
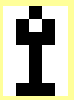
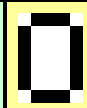
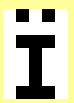
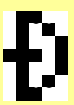
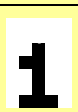
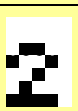
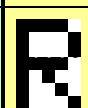
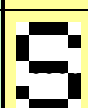
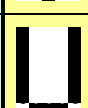
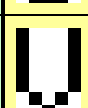
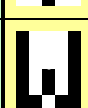
About FL Font

No.	Data Code	5x7 FL Font	Character
0	0x00		
1	0x01		
2	0x02		
3	0x03		
4	0x04		
5	0x05		
6	0x06		
7	0x07		I
8	0x08		II
9	0x09		
10	0x0A		
11	0x0B		♡
12	0x0C		.

No.	Data Code	5x7 FL Font	Character
64	0x40		@
65	0x41		A
66	0x42		B
67	0x43		C
68	0x44		D
69	0x45		E
70	0x46		F
71	0x47		G
72	0x48		H
73	0x49		I
74	0x4A		J
75	0x4B		K
76	0x4C		L

No.	Data Code	5x7 FL Font	Character
128	0x80		Œ
129	0x81		œ
130	0x82		Ĳ
131	0x83		ĳ
132	0x84		π
133	0x85		∓
134	0x86		
135	0x87		
136	0x88		
137	0x89		
138	0x8A		
139	0x8B		
140	0x8C		←

No.	Data Code	5x7 FL Font	Character
192	0xC0		À
193	0xC1		Á
194	0xC2		Â
195	0xC3		Ã
196	0xC4		Ä
197	0xC5		Å
198	0xC6		Æ
199	0xC7		Ç
200	0xC8		È
201	0xC9		É
202	0xCA		Ê
203	0xCB		Ë
204	0xCC		Ì

13	0x0D		.0	77	0x4D		M	141	0x8D		↑	205	0xCD		Í
14	0x0E		.5	78	0x4E		N	142	0x8E		→	206	0xCE		Î
15	0x0F		Ω	79	0x4F		O	143	0x8F		↓	207	0xCF		ï
16	0x10		0	80	0x50		P	144	0x90		+	208	0xD0		Đ
17	0x11		1	81	0x51		Q	145	0x91		♪	209	0xD1		Ñ
18	0x12		2	82	0x52		R	146	0x92			210	0xD2		Ò
19	0x13		3	83	0x53		S	147	0x93			211	0xD3		Ó
20	0x14		4	84	0x54		T	148	0x94			212	0xD4		Ô
21	0x15		5	85	0x55		U	149	0x95			213	0xD5		Õ
22	0x16		6	86	0x56		V	150	0x96			214	0xD6		Ö
23	0x17		7	87	0x57		W	151	0x97			215	0xD7		×
24	0x18		8	88	0x58		X	152	0x98			216	0xD8		Ø

25	0x19		9	89	0x59		Y	153	0x99			217	0xD9		Ù
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27	0x1B		B	91	0x5B		[	155	0x9B			219	0xDB		Û
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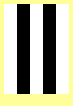
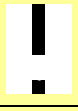
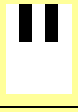
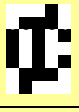
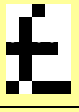
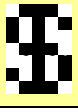
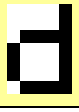
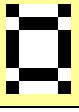
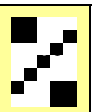
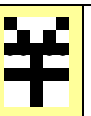
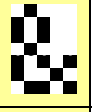
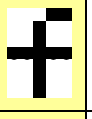
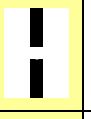
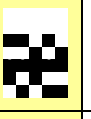
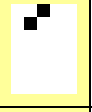
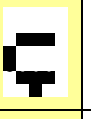
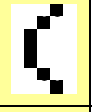
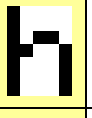
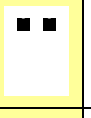
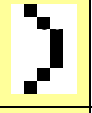
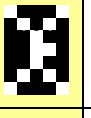
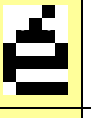
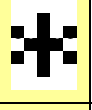
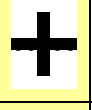
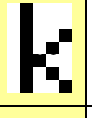
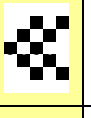
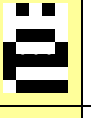
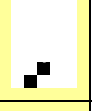
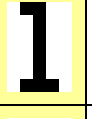
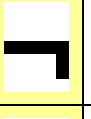
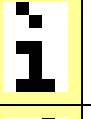
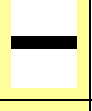
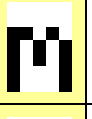
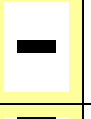
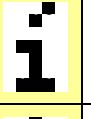
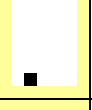
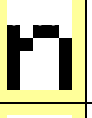
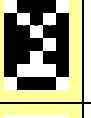
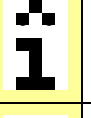
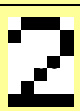
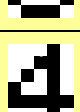
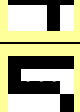
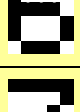
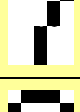
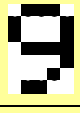
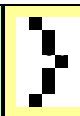
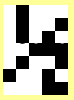
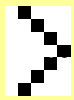
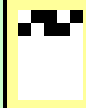
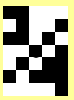
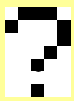
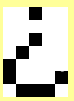
32	0x20			96	0x60		‖	160	0xA0			224	0xE0		à
33	0x21		!	97	0x61		a	161	0xA1		¡	225	0xE1		á
34	0x22		"	98	0x62		b	162	0xA2		¢	226	0xE2		â
35	0x23		#	99	0x63		c	163	0xA3		£	227	0xE3		ã
36	0x24		$	100	0x64		d	164	0xA4		¤	228	0xE4		ä

37	0x25		%	101	0x65		e	165	0xA5		¥	229	0xE5		å
38	0x26		&	102	0x66		f	166	0xA6		¦	230	0xE6		æ
39	0x27		'	103	0x67		g	167	0xA7		§	231	0xE7		ç
40	0x28		(	104	0x68		h	168	0xA8		¨	232	0xE8		è
41	0x29		)	105	0x69		i	169	0xA9		©	233	0xE9		é
42	0x2A		*	106	0x6A		j	170	0xAA		a	234	0xEA		ê
43	0x2B		+	107	0x6B		k	171	0xAB		«	235	0xEB		ë
44	0x2C		,	108	0x6C		l	172	0xAC		¬	236	0xEC		ì
45	0x2D		-	109	0x6D		m	173	0xAD		-	237	0xED		í
46	0x2E		.	110	0x6E		n	174	0xAE		®	238	0xEE		î
47	0x2F		/	111	0x6F		o	175	0xAF		¯	239	0xEF		ï
48	0x30		0	112	0x70		p	176	0xB0		°	240	0xF0		ð

49	0x31		1	113	0x71		q	177	0xB1		±	241	0xF1		ñ
50	0x32		2	114	0x72		r	178	0xB2		²	242	0xF2		ò
51	0x33		3	115	0x73		s	179	0xB3		³	243	0xF3		ó
52	0x34		4	116	0x74		t	180	0xB4		´	244	0xF4		ô
53	0x35		5	117	0x75		u	181	0xB5		µ	245	0xF5		õ
54	0x36		6	118	0x76		v	182	0xB6		¶	246	0xF6		ö
55	0x37		7	119	0x77		w	183	0xB7		·	247	0xF7		÷
56	0x38		8	120	0x78		x	184	0xB8		¸	248	0xF8		ø
57	0x39		9	121	0x79		y	185	0xB9		¹	249	0xF9		ù
58	0x3A		:	122	0x7A		z	186	0xBA		º	250	0xFA		ú
59	0x3B		;	123	0x7B		{	187	0xBB		»	251	0xFB		û
60	0x3C		<	124	0x7C		|	188	0xBC		¼	252	0xFC		ü

61	0x3D		=	125	0x7D		}	189	0xBD		½	253	0xFD		ý
62	0x3E		>	126	0x7E		~	190	0xBE		¾	254	0xFE		þ
63	0x3F		?	127	0x7F			191	0xBF		¿	255	0xFF		ÿ