

ELITE

VSX-72TXVi

RS-232C Protocol

Physical Cable Connection

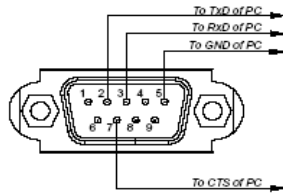
Connector

RS232C DB9 Male

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.

PC Control Connector (D-Sub 9P)



Communication

Communication Speed : 9600bps

Protocol type : 8data bits, 1stop bit, no parity

VSX-72TXV RS-232C Commands List

Automatic Feedback

When the input or function status is changed using knobs on the front panel or the remote control of the receiver, the receiver will send it's new status automatically. (VOLXX,PQRX,MUTX,FUNXX,SRXXXX,LMXXX

(For example) The user changes a function on the front panel.
Receiver sends: FUNXX<CR+LF>

X:Argument:ASCII code

Status Request Commands

Command	Command Name	Argument	operation	Answer
?V<CR>	VOLUME LEVEL STATUS REQUEST		Return the VOLUME LEVEL	VOLXX<CR+LF> *1
?P<CR>	POWER STATUS REQUEST		Return the POWER status	PWRX<CR+LF> *2
?M<CR>	MUTE STATUS REQUEST		Return the MUTE status	MUTX<CR+LF> *2
?F<CR>	FUNCTION MODE REQUEST		Return the FUNCTION MODE	FUNXX<CR+LF> *3
?S<CR>	LISTENING MODE SETTING REQUEST		Return the L.M SETTING	SRXXXX<CR+LF> *4
?L<CR>	LISTENING MODE REQUEST		Return the L.M	LMXXX<CR+LF> *5
?TO<CR>	TONE STATUS REQUEST		Return the TONE status	TOX<CR+LF> *6
?BA<CR>	BASS STATUS REQUEST		Return the BASS Level	BAXX<CR+LF> *7
?TR<CR>	TREBLE STATUS REQUEST		Return the TREBLE Level	TRXX<CR+LF> *8
?PR<CR>	TUNER PRESET REQUEST		Return the PRESET number	PRXX<CR+LF> *9
?FR<CR>	TUNER FREQ REQUEST		Return the FREQ number	FRXXXX<CR+LF> *10
?AP<CR>	ZONE 2 POWER STATUS REQUEST		Return the POWER status	APRX<CR+LF> *2
?BP<CR>	ZONE 3 POWER STATUS REQUEST		Return the POWER status	BPRX<CR+LF> *2
?ZS<CR>	ZONE 2 FUNCTION STATUS REQUEST		Return the FUNCTION MODE	Z2FXX<CR+LF> *3
?ZT<CR>	ZONE 3 FUNCTION STATUS REQUEST		Return the FUNCTION MODE	Z3FXX<CR+LF> *3
?ZV<CR>	ZONE 2 VOLUME STATUS REQUEST		Return the VOLUME LEVEL	ZVXX<CR+LF> *1
?MC<CR>	MCACC POSITION REQUEST		Return the MCACC POSITION status	MCX<CR+LF> *15
?EX<CR>	SBCh PROCESSING STATUS REQUEST		Return the SBCh PROCESSING status	EXXX<CR+LF> *14
?XM<CR>	XM channel REQUEST	000-255	Return XM channel	XMXX<CR+LF>
?IS<CR>	ISOPAHSE STATUS REQUEST		Return ISOPAHSE STATUS	ISX<CR+LF>

Operation Commands

Command	Command Name	Argument	Operation	Answer
VU<CR>	VOLUME UP		VOLUME UP	VOLXX<CR+LF> *1
VD<CR>	VOLUME DOWN		VOLUME DOWN	VOLXX<CR+LF> *1
XXVL<CR>	VOLUME SET	00-93 *1	Set the VOLUME level	VOLXX<CR+LF> *1
PO<CR>	POWER ON		POWER ON	PWRX<CR+LF> *2
PF<CR>	POWER OFF		POWER OFF	PWRX<CR+LF> *2
MO<CR>	MUTE ON		MUTE ON	MUTX<CR+LF> *2
MF<CR>	MUTE OFF		MUTE OFF	MUTX<CR+LF> *2
XXFN<CR>	FUNCTION MODE SET	*3	Set the FUNCTION MODE	FUNXX<CR+LF> *3
FU<CR>	FUNCTION MODE UP		Change the FUNCTION MODE	FUNXX<CR+LF> *3
XXX(X)SR<CR>	LISTENING MODE SET	*4	Change the LISTENING MODE	SRXXX(X)<CR+LF> *4
TO<CR>	TONE ON/BYPASS		TONE ON or BYPASS	TOX<CR+LF>
BI<CR>	BASS INCREMENT		BASS INCREMENT	BAXX<CR+LF> *7
BD<CR>	BASS DECREMENT		BASS DECREMENT	BAXX<CR+LF> *7
TI<CR>	TREBLE INCREMENT		TREBLE INCREMENT	TRXX<CR+LF> *8
TD<CR>	TREBLE DECREMENT		TREBLE DECREMENT	TRXX<CR+LF> *8
TB<CR>	TUNER BAND		change the BAND (AM/FM)	FRXXXX<CR+LF> *10
XTP<CR>	TUNER PRESET	0-9	change the TUNER PRESET	PRXX<CR+LF> *9
TC<CR>	TUNER CLASS		change the TUNER CLASS	PRXX<CR+LF> *9
TPI<CR>	TUNER PRESET INCREMENT		TUNER PRESET INCREMENT	PRXX<CR+LF> *9
TPD<CR>	TUNER PRESET DECREMENT		TUNER PRESET DECREMENT	PRXX<CR+LF> *9
TFI<CR>	TUNER FREQ INCREMENT		TUNER FREQ INCREMENT	FRXXXX<CR+LF> *10
TFD<CR>	TUNER FREQ DECREMENT		TUNER FREQ DECREMENT	FRXXXX<CR+LF> *10
XXZS<CR>	ZONE2 FUNCTION MODE SET	*3	Set the FUNCTION MODE	Z2FXX<CR+LF> *3
XXZT<CR>	ZONE3 FUNCTION MODE SET	*3	Set the FUNCTION MODE	Z3FXX<CR+LF> *3
ZU<CR>	ZONE2 VOLUME UP		VOLUME UP	ZVXX<CR+LF> *1
ZD<CR>	ZONE2 VOLUME DOWN		VOLUME DOWN	ZVXX<CR+LF> *1
XXZV<CR>	ZONE2 VOLUME SET	00-80	Set the VOLUME level	ZVXX<CR+LF> *1
APO<CR>	ZONE2 POWER ON		ZONE2 POWER ON	APRX<CR+LF> *2
APF<CR>	ZONE2 POWER OFF		ZONE2 POWER OFF	APRX<CR+LF> *2
BPO<CR>	ZONE3 POWER ON		ZONE3 POWER ON	BPRX<CR+LF> *2
BPF<CR>	ZONE3 POWER OFF		ZONE3 POWER OFF	BPRX<CR+LF> *2
XMC<CR>	MCACC POSITION	0,1,2,3,4,5,6	change the MCACC POSITION	MCX<CR+LF> *15
XXEX<CR>	SBCh PROCESSING SET	0,1,2	Change EXTENDED MODE	EXXX<CR+LF> *14
STS<CR>	STATUS DISPLAY		to see OSD display	R
XIS<CR>	PHASE CONTROL	0,1	ISOPHASE ON/OFF	ISX<CR+LF>*16

iPod OPERATION

Command	Command Name	Argument	Operation	Answer
00IP<CR>	PLAY	-	to see OSD display	R
01IP<CR>	PAUSE	-	to see OSD display	R
02IP<CR>	STOP	-	to see OSD display	R
03IP<CR>	PREVIOUS (< <)	-	to see OSD display	R
04IP<CR>	NEXT (> >)	-	to see OSD display	R
05IP<CR>	REV (> >)	-	to see OSD display	R
06IP<CR>	FWD (< <)	-	to see OSD display	R
07IP<CR>	REPEAT	-	to see OSD display	R
08IP<CR>	SHUFFLE	-	to see OSD display	R
09IP<CR>	DISPLAY	-	to see OSD display	R
10IP<CR>	OSD ON/OFF	-	to see OSD display	R
11IP<CR>	VOL UP	-	to see OSD display	R
12IP<CR>	VOL DOWN	-	to see OSD display	R
13IP<CR>	Cursor UP	-	to see OSD display	R
14IP<CR>	Cursor DOWN	-	to see OSD display	R
15IP<CR>	Cursor RIGHT	-	to see OSD display	R
16IP<CR>	Cursor LEFT	-	to see OSD display	R
17IP<CR>	ENTER	-	to see OSD display	R
18IP<CR>	RETURN	-	to see OSD display	R
19IP<CR>	CATEGORY	-	to see OSD display	R

XM radio OPERATION (USA model only)

Command	Command Name	Argument	Operation	Answer
00XM<CR>	STATION 10	-	to see OSD display	XM***<CR+LF>
01XM<CR>	1	-	to see OSD display	XM***<CR+LF>
02XM<CR>	2	-	to see OSD display	XM***<CR+LF>
03XM<CR>	3	-	to see OSD display	XM***<CR+LF>
04XM<CR>	4	-	to see OSD display	XM***<CR+LF>
05XM<CR>	5	-	to see OSD display	XM***<CR+LF>
06XM<CR>	6	-	to see OSD display	XM***<CR+LF>
07XM<CR>	7	-	to see OSD display	XM***<CR+LF>
08XM<CR>	8	-	to see OSD display	XM***<CR+LF>
09XM<CR>	9	-	to see OSD display	XM***<CR+LF>
10XM<CR>	CH + / Cursor DOWN↓	-	to see OSD display	XM***<CR+LF>
11XM<CR>	CH - / Cursor UP↑	-	to see OSD display	XM***<CR+LF>
12XM<CR>	PRESET ST + (→)	-	to see OSD display	XM***<CR+LF>
13XM<CR>	PRESET ST - (←)	-	to see OSD display	XM***<CR+LF>
14XM<CR>	DISPLAY	-	to see OSD display	XM***<CR+LF>
15XM<CR>	PRESET	-	to see OSD display	XM***<CR+LF>
16XM<CR>	CLASS	-	to see OSD display	XM***<CR+LF>
17XM<CR>	DIRECT ACCESS(CH)	-	to see OSD display	XM***<CR+LF>
18XM<CR>	MEMORY (EDIT)	-	to see OSD display	XM***<CR+LF>
19XM<CR>	MENU	-	to see OSD display	XM***<CR+LF>
20XM<CR>	CLEAR	-	to see OSD display	XM***<CR+LF>
21XM<CR>	ENTER	-	to see OSD display	XM***<CR+LF>
22XM<CR>	RETURN	-	to see OSD display	XM***<CR+LF>
23XM<CR>	CATEGORY	-	to see OSD display	XM***<CR+LF>

(↑ when change channel)

Error message

Error Message	Error Name	Meaning
E04<CR+LF>	COMMAND ERROR	Inappropriate Command line detected
E06<CR+LF>	ARGUMENT ERROR	Inappropriate Factor

Explanation of arguments

*1 VOLUME LEVEL [2byte]

93VL<CR>	+12dB
81VL<CR>	0dB
01VL<CR>	-80dB
00VL<CR>	-- (same as mute)

Example1

Command ?V<CR>

Answer VOL93<CR+LF>

Request Volume Level.

Volume is set to +12dB.

*2 ON/OFF Status Reply [1byte]

0	ON
1	OFF

Example2

Command ?M<CR>

Answer MUT0<CR+LF>

Request Mute Status.

Mute is On.

***3 FUNCTION MODE Command NO. [2byte]**

00FN<CR>	PHONO
01FN<CR>	CD
02FN<CR>	TUNER
03FN<CR>	CDR
04FN<CR>	DVD
05FN<CR>	TV
06FN<CR>	SAT
10FN<CR>	VIDEO or VIDEO1
12FN<CR>	Multi CH
14FN<CR>	VIDEO2
15FN<CR>	DVR or DVR1
16FN<CR>	DVR2
17FN<CR>	iPod
18FN<CR>	XM
19FN<CR>	HDMI1
20FN<CR>	HDMI2
21FN<CR>	HDMI3

Example3

Command 04FN<CR>
Answer FUN04<CR+LF>

Change to source 04(DVD).

Example4

Command in respect of "?F<CR>"
Answer FUN04<CR+LF>

Request Current Source.
Source 04 is selected(DVD).

***6 TONE STATUS Reply[1byte]**

0	BYPASS
1	ON

Example1

Command ?TO<CR>
Answer TO1<CR+LF>

Request TONE Status.
Tone On.

***7 BASS STATUS Reply [2byte]**

00	+6
01	+5
02	+4
03	+3
04	+2
05	+1
06	0
07	-1
08	-2
09	-3
10	-4
11	-5
12	-6

Example2

Command ?BA<CR>
Answer BA02<CR+LF>

Request BASS Level.
BASS is set to +4dB.

***8 TREBLE STATUS Reply [2byte]**

00	+6
01	+5
02	+4
03	+3
04	+2
05	+1
06	0
07	-1
08	-2
09	-3
10	-4
11	-5
12	-6

Example3

Command ?TR<CR>
Answer TR02<CR+LF>

Request TREBLE Level.
TREBLE is set to +4dB.

***9 PRESET Tuner Number Status Reply [3byte]**

*00	10
*01	1
*02	2
*03	3
*04	4
*05	5
*06	6
*07	7
*08	8
*09	9

* = A : class A

* = B : class B

* = C : class C

Example4

Command ?PR<CR>

Answer PRA04<CR+LF>

PRC00<CR+LF>

Request PRESET number

PRESET number is set to class A 4

PRESET number is set to class C 10

***10 FREQUENCY Number Status Reply [7byte]**

A0****	
F*****	

A is AM

F is FM

* is ASC II code 0 - 9

Example5

Command ?FR<CR>

Answer FRA00890<CR+LF>

FRF08010<CR+LF>

Request FREQ number

FREQ number is set to AM 890 kHz

FREQ number is set to FM 80.10 MHz

***14 SURROUND BACK CHANNEL PROCESSING COMMAND [1byte]**

0EX<CR>	OFF
1EX<CR>	ON
2EX<CR>	AUTO

***15 MCACC SETTING COMMAND [1byte]**

0MC<CR>	MCACC OFF
1MC<CR>	MEMORY 1
2MC<CR>	MEMORY 2
3MC<CR>	MEMORY 3
4MC<CR>	MEMORY 4
5MC<CR>	MEMORY 5
6MC<CR>	MEMORY 6

***16 PHASE CONTROL COMMAND [1byte]**

0IS<CR>	OFF
1IS<CR>	ON

***4 LISTENING MODE SET, LISTENING MODE SETTING REQUEST [4byte]**

When you set the "Listening Mode" with the receiver's front panel keys and knobs, you use the "LISTENING MODE SELECTOR" knob along with "LISTENING CH SELECT" button. Depending on the source signal there are some modes which are not available. There is automatic detection for 2ch and 6.1ch, but that too is source dependent (flags) and may not appear to work properly

With the "SR" command, you can select whichever mode you wish.
Also, you can confirm your selection with the "SR" command by using "?S" command query.

When a LISTENING MODE is changed, the set will dispatch an ANSWER to let the controller know the current set status automatically without receiving a LISTENING MODE SETTING REQUEST. (Automatic Feedback)

[2-4byte]: data for mode setting.
Below the are the commands for selecting a LISTENING MODE.

NEW version (from '05 model) [3byte]

[1-3byte]: data for mode setting.
Indicating below the combination of the modes selected by LISTENING MODE
Example

Command 001SR<CR>	set STEREO mode.
Answer SR001<CR+LF>	now become STEREO mode.
Answer LM130<CR+LF>	now 96kHz STEREO play.
Command ?S<CR>	now LISTENING mode?
Answer SR031<CR+LF>	now ACTION mode.

001SR<CR>	STEREO	
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010SR<CR>	STANDARD SELECTION (same as key)	
012SR<CR>	PRO LOGIC	for 2ch Source
013SR<CR>	PRO LOGIC II MOVIE	for 2ch Source
014SR<CR>	PRO LOGIC II MUSIC	for 2ch Source
015SR<CR>	PRO LOGIC II GAME	for 2ch Source
016SR<CR>	Neo:6 CINEMA	for 2ch Source
017SR<CR>	Neo:6 MUSIC	for 2ch Source
018SR<CR>	PRO LOGIC II x MOVIE	for 2ch Source
019SR<CR>	PRO LOGIC II x MUSIC	for 2ch Source
020SR<CR>	PRO LOGIC II x GAME	for 2ch Source
021SR<CR>	Depending on Source (for Multi-ch)	for Multi-ch Source
022SR<CR>	(Multi-Channel Source) + EX	for Multi-ch Source
023SR<CR>	(Multi-Channel Source) + PRO LOGIC II x MOVIE	for Multi-ch Source
024SR<CR>	(Multi-Channel Source) + PRO LOGIC II x MUSIC	for Multi-ch Source
025SR<CR>	DTS + Neo:6	for Multi-ch Source
026SR<CR>	DTS-ES matrix6.1	for Multi-ch Source
027SR<CR>	DTS- ES discrete6.1	for Multi-ch Source

100SR<CR>	ADVANCED SURROUND SELECTION (same as key)	
101SR<CR>	ACTION	
102SR<CR>	SCI-FI	
103SR<CR>	DRAMA	
104SR<CR>	MUSICAL	
105SR<CR>	MONO FILM	
106SR<CR>	7-D THEATER	
107SR<CR>	CLASSICAL	
108SR<CR>	CHAMBER	
109SR<CR>	JAZZ	
110SR<CR>	ROCK	
111SR<CR>	DANCE	
112SR<CR>	7CH STEREO	
113SR<CR>	PHONES SURROUND	

050SR<CR>	THX SELECTION (same as key)	
051SR<CR>	PRO LOGIC + THX	for 2ch Source
052SR<CR>	PRO LOGIC II MOVIE + THX	for 2ch Source
053SR<CR>	Neo:6 CINEMA + THX	for 2ch Source
054SR<CR>	PRO LOGIC II x MOVIE + THX	for 2ch Source
055SR<CR>	THX GAMES MODE	for 2ch Source
056SR<CR>	THX Depending on Source (for Multi-ch)	for Multi-ch Source
057SR<CR>	THX SURROUND EX	for Multi-ch Source
058SR<CR>	PRO LOGIC II x MOVIE + THX	for Multi-ch Source
059SR<CR>	DTS + Neo:6 + THX	for Multi-ch Source
060SR<CR>	DTS-ES MATRIX + THX	for Multi-ch Source
061SR<CR>	DTS-ES DISCRETE6.1 + THX	for Multi-ch Source
062SR<CR>	THX SELECT2	for Multi-ch Source
063SR<CR>	THX MUSICMODE SELECT	for Multi-ch Source
064SR<CR>	THX GAMES MODE (for multi-ch)	for Multi-ch Source

005SR<CR>	AUTO SURROUND/STREAM DIRECT (same as key)	
006SR<CR>	AUTO SURROUND	
007SR<CR>	NORMAL DIRECT	
008SR<CR>	PURE DIRECT	

150SR<CR>	MULTI CH IN	for only Answer
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***5 LISTENING (DECODE) MODE REQUEST [3byte]**

Below is the list indicating the combination of the LISTENING MODE selected by "SR" command and the LISTENING MODE determined by the input source signal.

When the LISTENING MODE is set and the format for the source signal is confirmed, the receiver will send an ANSWER COMMAND to the controller to let it know the LISTENING MODE status. It replies automatically and does not need to receive a LISTENING MODE REQUEST.

(Automatic Feedback)

LISTENING MODE shows the current signal format the receiver is detecting or the surround mode which has been added to the original signal
LM***

STEREO

LM128	STEREO
LM130	96KHz STEREO
LM132	88KHz STEREO

LM304	PCM 88.2KHz STEREO
LM305	PCM 96KHz STEREO
LM306	PCM 176.4KHz STEREO
LM307	PCM 192KHz STEREO

LM322	DTS 96/24 STEREO
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LM356	DVD-AUDIO STEREO
LM358	DVD-AUDIO 88.2KHz STEREO
LM360	DVD-AUDIO 96KHz STEREO
LM362	DVD-AUDIO 176KHz STEREO
LM363	DVD-AUDIO 192KHz STEREO

STANDARD

LM002	PRO LOGIC
LM000	PRO LOGIC II MOVIE
LM001	PRO LOGIC II MUSIC
LM005	PRO LOGIC II GAME
LM003	Neo:6 CINEMA
LM004	Neo:6 MUSIC
LM050	PRO LOGIC II x MOVIE
LM051	PRO LOGIC II x MUSIC
LM056	PRO LOGIC II x GAME

LM054	Neo:6 88K CINEMA
LM055	Neo:6 88K MUSIC
LM052	Neo:6 96K CINEMA
LM053	Neo:6 96K MUSIC

LM008	96kHz PRO LOGIC
LM009	96kHz PRO LOGIC II MOVIE
LM010	96kHz PRO LOGIC II MUSIC
LM011	96kHz PRO LOGIC II GAME
LM057	96kHz PRO LOGIC II x MOVIE
LM058	96kHz PRO LOGIC II x MUSIC
LM059	96kHz PRO LOGIC II x GAME

LM140	PCM88.2kHz + PRO LOGIC
LM141	PCM88.2kHz + PRO LOGIC II MOVIE
LM142	PCM88.2kHz + PRO LOGIC II MUSIC
LM143	PCM88.2kHz + PRO LOGIC II GAME
LM144	PCM88.2kHz + PRO LOGIC II x MOVIE (for 2ch)
LM145	PCM88.2kHz + PRO LOGIC II x MUSIC (for 2ch)
LM146	PCM88.2kHz + PRO LOGIC II x GAME
LM147	PCM96kHz + PRO LOGIC
LM148	PCM96kHz + PRO LOGIC II MOVIE
LM149	PCM96kHz + PRO LOGIC II MUSIC
LM150	PCM96kHz + PRO LOGIC II GAME
LM151	PCM96kHz + PRO LOGIC II x MOVIE (for 2ch)
LM152	PCM96kHz + PRO LOGIC II x MUSIC (for 2ch)
LM153	PCM96kHz + PRO LOGIC II x GAME
LM162	PCM88.2kHz + PRO LOGIC II x MOVIE (for multichannel)
LM163	PCM88.2kHz + PRO LOGIC II x MUSIC (for multichannel)
LM164	PCM96kHz + PRO LOGIC II x MOVIE (for multichannel)
LM165	PCM96kHz + PRO LOGIC II x MUSIC (for multichannel)
LM031	PCM
LM300	PCM 88.2KHz
LM015	PCM 96KHz
LM302	PCM 176.4KHz
LM303	PCM 192KHz
LM333	PCM + PRO LOGIC II x MOVIE (for multichannel)
LM334	PCM + PRO LOGIC II x MUSIC (for multichannel)

LM016	DOLBY DIGITAL
LM017	DOLBY DIGITAL EX
LM154	DOLBY DIGITAL + PRO LOGIC II x MOVIE
LM155	DOLBY DIGITAL + PRO LOGIC II x MUSIC

LM019	DTS
LM022	DTS-ES DISC 6.1
LM023	DTS-ES MTRX 6.1
LM030	DTS 96/24
LM324	DTS + Neo:6
LM156	DTS + PROLOGIC II x MOVIE
LM157	DTS + PROLOGIC II x MUSIC

LM027	MPEG-2 AAC
LM028	MPEG-2 AAC EX
LM158	MPEG-2 AAC + PROLOGIC II x MOVIE
LM159	MPEG-2 AAC + PROLOGIC II x MUSIC

LM380	WMA 9 PRO
LM382	WMA 9 PRO + EX
LM384	WMA 9 Pro + PRO LOGIC II x MOVIE
LM385	WMA 9 Pro + PRO LOGIC II x MUSIC

LM350	DVD-AUDIO
LM351	DVD-AUDIO 88.2KHz
LM352	DVD-AUDIO 96KHz
LM366	DVD AUDIO +EX
LM367	DVD-AUDIO 88.2KHz +EX
LM368	DVD-AUDIO 96KHz +EX
LM250	DVD-AUDIO + PRO LOGIC
LM251	DVD-AUDIO + PRO LOGIC II MOVIE
LM252	DVD-AUDIO + PRO LOGIC II MUSIC
LM253	DVD-AUDIO + PRO LOGIC II GAME
LM254	DVD-AUDIO + PRO LOGIC II x MOVIE (for 2ch)
LM255	DVD-AUDIO + PRO LOGIC II x MUSIC (for 2ch)
LM256	DVD-AUDIO + PRO LOGIC II x GAME
LM257	DVD-AUDIO + PRO LOGIC II x MOVIE (for multichannel)
LM258	DVD-AUDIO + PRO LOGIC II x MUSIC (for multichannel)
LM260	DVD-AUDIO 88.2k + PRO LOGIC
LM261	DVD-AUDIO 88.2k + PRO LOGIC II MOVIE
LM262	DVD-AUDIO 88.2k + PRO LOGIC II MUSIC
LM263	DVD-AUDIO 88.2k + PRO LOGIC II GAME
LM264	DVD-AUDIO 88.2k + PRO LOGIC II x MOVIE (for 2ch)
LM265	DVD-AUDIO 88.2k + PRO LOGIC II x MUSIC (for 2ch)
LM266	DVD-AUDIO 88.2k + PRO LOGIC II x GAME
LM267	DVD-AUDIO 88.2k + PRO LOGIC II x MOVIE (for multichannel)
LM268	DVD-AUDIO 88.2k + PRO LOGIC II x MUSIC (for multichannel)
LM270	DVD-AUDIO 96k + PRO LOGIC
LM271	DVD-AUDIO 96k + PRO LOGIC II MOVIE
LM272	DVD-AUDIO 96k + PRO LOGIC II MUSIC
LM273	DVD-AUDIO 96k + PRO LOGIC II GAME
LM274	DVD-AUDIO 96k + PRO LOGIC II x MOVIE (for 2ch)
LM275	DVD-AUDIO 96k + PRO LOGIC II x MUSIC (for 2ch)
LM276	DVD-AUDIO 96k + PRO LOGIC II x GAME
LM277	DVD-AUDIO 96k + PRO LOGIC II x MOVIE (for multichannel)
LM278	DVD-AUDIO 96k + PRO LOGIC II x MUSIC (for multichannel)

ADVANCED CINEMA

LM032	ACTION
LM033	SCIFI
LM034	DRAMA
LM035	MUSICAL
LM036	MONOFILM
LM043	7D-THEATER
LM185	PHONES SURROUND

ADVANCED CONCERT

LM096	CLASSICAL
LM097	CHAMBER
LM098	JAZZ
LM099	ROCK
LM100	DANCE
LM107	7CH-STEREO

THX

LM220	PRO LOGIC + THX
LM221	PRO LOGIC II MOVIE + THX
LM222	Neo:6 CINEMA + THX
LM087	PRO LOGIC II x MOVIE + THX
LM223	THX GAMES MODE (for 2ch)

LM080	THX CINEMA
LM081	THX SURROUND EX
LM230	DOLBY DIGITAL + PRO LOGIC II x MOVIE + THX
LM231	DTS + PRO LOGIC II x MOVIE + THX
LM234	MPEG-2 AAC + PRO LOGIC II x MOVIE + THX
LM235	WMA 9 Pro + PRO LOGIC II x MOVIE + THX
LM085	DTS + Neo6 + THX
LM236	THX SELECT2 CINEMA
LM083	THX MUSIC MODE
LM237	THX GAMES MODE (for multichannel)
LM232	DTS-ES MATRIX6.1 + THX
LM233	DTS-ES DISCRETE6.1 + THX

MULTI-CH / USB

LM200	6CH IN
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STREAM DIRECT

LM124	SACD DIRECT
LM125	PCM DIRECT
LM126	ANALOG DIRECT

ETC.

LM219	HDMI THROUGH
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Example8

Command ?L<CR>

Answer LM001<CR+LF>

now PRO LOGIC II MUSIC playing.