THETA DIGITAL
Casablanca III (Rev B) Owners Manual Addendum
RS232 Protocol and Control Details

This document is applicable to the Casablanca III with firmware 3xx and to the Casablanca III HD with firmware 4xx, only.

When linking commands, please place a 3 second delay between the turn-on command and the first input-select command.

RS232 Hardware Connections
RTS and CTS are not implemented in the
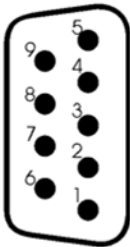Casablanca III or Casablanca III HD.

DB9

Pin	I/O	
1 - DCD	0	Jumped
2 - Casablanca III sends on this pin	0	
3 - Casablanca III receives on this pin	1	
4 - DTR	1	
5 - GND		
6 - DSR	0	
7 - RTS	1	
8 - CTS	0	
9 - Ring	---	

CN2

RJ45

Pin	I/O	
1 - RTS	1	
2 - DTR	1	Jumped
3 - Casablanca III receives on this pin	1	
4 - GND		
5 - GND		
6 - Casablanca III sends on this pin	0	
7 - DCD	0	
8 - CTS	0	

CN3

Rear panel view of DB9 connector
(From outside of unit).

Casablanca III receives on this pin
GND
Casablanca III sends on this pin
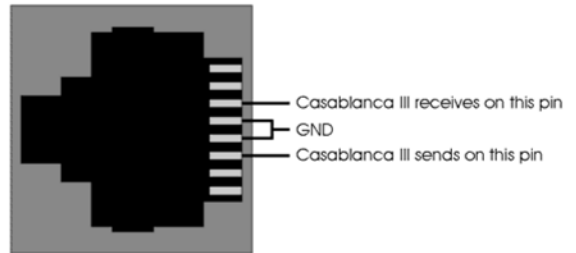
These are the connector drawings only. The RS232 cable must be a regular RS232 or mouse extender cable that are wired pin for pin.

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Casablanca III RS232 Control Details

RS232 settings will be user definable to accommodate interfacing with a wide range of control products.

Baud rate	4800, 9600, 19200, 38400, 57600, or 115200
Echo status	0- 4

Baud rate: Maximum number of bits per second. The duration of a single bit is equal to 1 / baud rate.
Echo status: Specifies a "status level" to return to controlling device upon any operating change in Casablanca III. E.g. level 1 will return current mode, input, master level. Level 2 will return level 1 plus additional parameters, etc.

Note: An Echo Status value of 3 or 4 is useful when programming but in typical use, will significantly slow the Casablanca III and therefore it is recommended that a value of **OFF**, **1** or **2** be set for everyday use.

The above settings may be changed via the user interface VDF or OSD or may also be changed via the RS232 interface itself.

Communication:

The parameters for RS232 communication will default to 8 bits, 1 stop bit and no parity.

All values in this document are in Decimal.

All commands will follow the format:

<Header><Command Identifier><Argument 1>< Argument 2>< Argument 3>
where:

<Header> = <254><236>
<Command identifier> = <byte>
< Argument 1> = <byte>
< Argument 2> = <byte>
< Argument 3> = <byte>

Each command will be able to access the system configuration directly, eliminating the need to navigate through multiple layers of menuing to reach a given item.

Input names and jack names can be read and changed via the RS232 port. This is useful when displaying this information on a touch screen panel or other device, to keep Casablanca III and the device synchronized.

Special Commands:

To increment the master volume from any menu: <header> 4 20 3 9 (values are decimal).
To decrement the master volume from any menu: <header> 4 21 3 9 (values are decimal).
To set a specific master volume level from any menu: <header> 1 9 3 x, where x = the volume level [0 -73] (values are decimal).

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This document is divided into several sections to facilitate ease of use when looking up values. There is a separate chart for Input Variables, or variables for parameters that are stored by Input.   There is another chart for Global Variables. As such there are tables for Status levels, Menus, Character Maps and other Parameters.

Below are some examples of using the command format. These examples will show how and where to look up values.

Example 1:
To Take the Casablanca III out of standby:

Header	Command	Argument 1	Argument 2	Argument 3
254 236	4	14	2	0

All entries from this command string were obtained from the Command List on page 5 of this document.

Example 2:
To select Input # 3:

Header	Command	Argument 1	Argument 2	Argument 3
254 236	4	5	3	0

-All entries from this command string were obtained from the Command List on page 5 of this document.

Example 3:
To change the front center level to +2, for the currently selected input:

Header	Command	Argument 1	Argument 2	Argument 3
254 236	1	37	0	2

-Command 1 is used because it is required to change a parameter that is not already listed under the "commands and argument 1's on the Command List.
-Argument 1's value was found on the *Input Variables chart*, as indicated under the "Argument 1 description".
-The Argument 2 was used because this is an Input variable. i.e. a parameter that is stored "by Input"
-Argument 3's value is the "new value" that is desired for the parameter being edited.

Example 4:
To change the analog tape out source to the coax 3 input jack:

Header	Command	Argument 1	Argument 2	Argument 3
254 236	1	3	1	9

-Command 1 is used because it is required to change a parameter that is not already listed under the "commands and argument 1's on the Command List.
-Argument 1's value was found on the *Global Variables chart*, as indicated under the "Argument 1 description".
-The Argument 2 was used because this is an Global variable. i.e. a parameter that is NOT stored "by Input"
-Argument 3's value is the "new value" that is desired for the parameter being edited. In the case of Jack names/variable numbers, this data was found on the Jack Variable chart.

Command	Description	Argument 1	Argument 1 Description	Argument 2	Argument 2 Desc	Argument 3	Arg 3 Desc
1	Input Variable Change	0-255	Variable Number (see Input Variables chart)	0	Input setting	0-255	New value
1	Global Variable Change	0-255	Variable Number (see Global Variables chart)	1	Global setting	0-255	New value
3	Update Display	1	Menu LEDs	0		0	
		2	Menu Parameters	0		0	
		3	Menu Display	0		0	
		4	Re-display whole menu	0		0	
4	Do Action						
		5	Select Input	1-12	Input number.	0	
		6	User Mute	0	Toggle mute.	0	
				1	Mute.	0	
				2	Unmute.	0	
		8	Go To Menu	0-255	Menu # Menu Chart.	0-255	time at new menu
		9	Go To Menu W/Password Check	0-255	Menu # Menu chart.	0-255	time at new menu
		12	Source change.	0	Cycle source.	0	
				1-6	Set source.	0	
		14	Power main.	0	Cycle standby.	0	
				1	Put unit into standby.	0	
				2	Take out of standby.	0	
		15	Power remote	0	Cycle remote power.	0	
		17	Mode select	0	Matrix	0	
			(Note: If in input select menu,	1	Special Matrix	0	
			this command should be followed	4	Stereo	0	
			by "03 04 00 00" to update the	5	Analog Direct	0	
			display.)	6	Analog Matrix	0	
				7	Mono	0	
				8	Circle II Cinema	0	
				9	Circle II Music	0	
				10	Circle II Mono Matrix	0	
				11	Pro Logic IIx Movie	0	
				12	Pro Logic IIx Music	0	
				13	Pro Logic IIx Mono Mx	0	
				14	DTS NEO:6 Cinema	0	
				15	DTS NEO:6 Music	0	
		20	Input Variable, Specified, Increment	0	Input setting	0-255 From Input Variable chart.	Variable Number
		20	Global Variable Specified, Increment	1	Global setting	0-255 From Global Variable chart	Variable Number

4

Command	Description	Argument 1	Argument 1 Description	Argument 2	Argument 2 Desc	Argument 3	Arg 3 Desc
		20	Internal Variable Specified, Increment	3	Internal setting	9	Master Volume
		21	Internal Variable Specified, Decrement	0	Input setting	0-255 From Input variable chart.	Variable Number
		21	Global Variable Specified, Decrement	1	Global setting	0-255 From Global variable chart	Variable Number
		21	Internal Variable Specified, Decrement	3	Internal setting	9	Master Volume
		26	Variable, Input, Set Value	0-255	Variable Number	0-255	New Value
		36	Return To Previous Menu	0-4	# of menus to go back		
5	Get Input variable value	0-255	Input Variable Number (see Input Variable chart).	0	Input setting	0	
5	Get Global variable value	0-255	Global Variable Number (see Global Variable chart).	1	Global setting	0	
6	Return status	0-4	Return specified status level.	0		0	
11	Simulate Keypress	0	None	0		0	
		1	1	0		0	
		2	2	0		0	
		3	3	0		0	
		4	4	0		0	
		5	5	0		0	
		6	6	0		0	
		7	A/D	0		0	
		8	Mute	0		0	
		9	Mode	0		0	
		10	Tape Out	0		0	
		11	Setup	0		0	
		12	Balance	0		0	
		13	Display IR	0		0	
		14	Power Main	0		0	
		15	Up	0		0	
		16	Down	0		0	
		17	Power Remote	0		0	
		18	Status	0		0	
		19	Left	0		0	
		20	Right	0		0	
		21	Phase	0		0	
		22	Select Up	0		0	

Command	Description	Argument 1	Argument 1 Description	Argument 2	Argument 2 Desc	Argument 3	Arg 3 Desc
		23	Select Down	0		0	
		25	Power Standby	0		0	
		26	Power Activate	0		0	
12	Read Serial Number ** See note #1	0		0		0	
15	Read Configuration ** See note #2	0		0		0	
17	Return OS version ** See note #3	0		0		0	
25	Execute Macro ** See note #4	0	Copy Current Input Settings	1-12	Input to copy to	0	
		1	Copy Current Speaker Settings	1-12	Input to copy to	0	
		2	Restore factory default settings	0	To Current Input	0	
				1	To All Inputs	0	
				2	To Global Settings	0	
				3	To Input and Jack Names	0	
				4	To Everything	0	

** Note 1: After sending command Casablanca, Casablanca will return 6 ASCII bytes representing the serial number.

** Note 2: After sending command Casablanca, Casablanca will return 121 bytes plus a checksum.

** Note 3: Returns 2 bytes containing a leading 0 and the version number.

** Note 4: Casablanca will return " 01" upon completion of the macro. All macro commands should be followed with a "Go To Menu" command, with the desired menu number as argument 1. This is because macros internally alter the current menu number.

Input Variables:

Variable #	Variable Name	Variable #	Variable Name	Variable #	Variable Name
0	CENTER_CONFIG	36	LEVEL_LEFT	71	SUB3_FULL_XOVER
1	LR_BW_LOP_FREQ	37	LEVEL_CENTER	72	SEARCH_1
2	CEN_PF_FREQ	38	LEVEL_RIGHT	73	SEARCH_2
3	CEN_PF_SLOPE	39	LEVEL_REAR_LEFT	74	SEARCH_3
4	CEN_PF_LOP_PHASE	40	LEVEL_REAR_RIGHT	75	SEARCH_4
5	CEN_BW_HIP_SLOPE	41	LEVEL_SUB_1	76	SEARCH_5
6	CEN_BW_HIP_FREQ	42	SEARCH_6_VIDEO	77	SEARCH_6
7	CENTER_LOPASS_TO	43	LEVEL_PHTM_SUR	78	CS_DLG_CLARITY
9	LR_CONFIG	44	DTS_ADD_SPKRS	79	CS_CLARITY_LVL
10	CENTER_TYPE	45	PL2X_PANORAMA	80	DD_EX_DECODE (+SPKR)
11	LR_PF_FREQ	46	PL2X_CTR_WIDTH	81	VFD_BRIGHTNESS
12	LR_PF_SLOPE	47	NEO6_CTR_GAIN	82	NAME_VFD
13	LR_PF_LOP_PHASE	48	SIX_SHOOTER	83	NAME_OSD
14	LR_BW_HIP_SLOPE	49	CS_DELAY_CENTER	84	OSD_BACKGROUND_COLOR
15	LR_BW_HIP_FREQ	50	CS_LEVEL_CENTER	85	OSD_LEFT_EDGE
16	SUR_CONFIG	51	CS_DELAY_SUR	86	OSD_TOP_EDGE
17	SUR_PF_FREQ	52	CS_LEVEL_SUR	87	OSD_CONFIG
18	SUR_PF_SLOPE	53	DD_2CH_MODE_ENC	88	OSD_DISPLAY_TIME
19	LR_LR_SLOPE	54	DD_COMPRESSION	89	STATUS_MODE
20	SUR_PF_LOP_PHASE	55	DD_COMP_HIGH	90	STATUS_INPUT
21	LR_LR_LOP_PHASE	56	DD_COMP_LOW	91	STATUS_TAPE
22	SUR_BW_HIP_SLOPE	57	DD_DIALOG_NORM	92	STATUS_LEVEL
23	SUR_BW_HIP_FREQ	58	DD_LFE_GAIN	93	STATUS_EQ
24	DELAY_LEFT	59	DD_DELAY_CENTER	94	STATUS_PHASE
25	DELAY_REAR_LEFT	60	DD_LEVEL_CENTER	95	STATUS_SOURCE
26	DELAY_REAR_RIGHT	61	SUB2_FULL_XOVER	96	LR_LR_FREQ
27	DELAY_CENTER	62	DD_LEVEL_SUR	97	POST_PROCESS
28	DELAY_RIGHT	63	DTS_LFE_GAIN	98	LR_BW_LOP_SLOPE
29	DELAY_SUB_1	64	DTS_DELAY_CENTER	99	SUBS_NUMBER
30	CEN_BW_LOP_FREQ	65	DTS_LEVEL_CENTER	100	SUB1_FULL_XOVER
31	CEN_BW_LOP_SLOPE	66	DTS_DELAY_SUR	101	SEARCH_1_VIDEO
32	CEN_BW_LOP_PHASE	67	DTS_LEVEL_SUR	102	SEARCH_2_VIDEO
33	CEN_LR_FREQ	68	MODE_DEFAULT	103	SEARCH_4_VIDEO
34	CEN_LR_SLOPE	69	CEN_LR_LOP_PHASE	104	SEARCH_3_VIDEO
35	DD_ADD_SPKRS	70	LFE_PHASE	105	SEARCH_5_VIDEO

Variable #	Variable Name	Variable #	Variable Name
106	LR_BW_LOP_PHASE	134	DELAY_SUB_3
107	SOURCE_NOISE1_NOISEALL	135	DELAY_SUB_4
108	SUR_BW_LOP_FREQ	138	STATUS_SAMPLE_RATE
109	SUR_BW_LOP_SLOPE	139	JACK_SEARCH
110	SUR_BW_LOP_PHASE	140	DELAY_MASTER
111	SUR_LR_FREQ	141	DD_2CH_MODE_NENC
112	SUR_LR_SLOPE	142	SURC_CONFIG
113	SUR_LR_LOP_PHASE	143	SURC_BW_HIP_FREQ
114	SUB4_FULL_XOVER	144	SURC_BW_HIP_SLOPE
116	CENTER_SPREAD	145	SURC_BW_LOP_FREQ
117	DD_DELAY_SURROUND	146	SURC_BW_LOP_SLOPE
119	SIDE_CONFIG	147	SURC_BW_LOP_PHASE
120	SURROUND_CENTER	148	SURC_LR_FREQ
122	LR_TYPE	149	SURC_LR_LOP_PHASE
123	SURROUND_TYPE	150	SURC_LR_SLOPE
124	LEVEL_SIDE_LEFT	151	SURC_PF_FREQ
125	LEVEL_SIDE_RIGHT	152	SURC_PF_LOP_PHASE
126	LEVEL_REAR_CENTER or SUB5	153	SURC_PF_SLOPE
127	LEVEL_SUB_2	154	SURC_TYPE
128	LEVEL_SUB_3	156	LEVEL_PHTM_FRONT_CENTER
129	LEVEL_SUB_4	157	LEVEL_PHTM_SUR_CENTER
130	DELAY_REAR_CENTER or SUB 5	158	SUB5_FULL_XOVER
131	DELAY_SIDE_LEFT	159	LEVEL_SUB_5
132	DELAY_SIDE_RIGHT	160	DELAY_SUB_5
133	DELAY_SUB_2		

Global Variables:

Variable #	Variable Name
0	TAPE_FOLLOW_INP
1	BALANCE_CLEAR
2	BALANCE_ANALOG_INPUT_LEVEL
3	ANALOG_TAPE_OUT
5	LEVEL_MASTER_INITIAL
6	PHASE
7	BALANCE_EQ
8	MAIN_TIME
9	CURSOR_VFD
11	MAIN1_TYPE
13	VOLUME_FAST
14	MAIN2_TYPE
15	LEVEL_MAX
16	TAPE_DIGITAL_SOURCE
17	REMOTE_PULSE_DURATION
18	TAPE_OUT_DIGITAL
19	TAPE_OUT_VIDEO
20	MUTE_LEVEL
21	MUTE_TRIGGER

Variable #	Variable Name
22	RS232_BAUD_RATE
24	RS232_ECHO_STATUS
27	VOLUME_SLOW
32	MAIN_OFF_SEQUENCE
33	REMOTE_TYPE
34	MAIN3_TYPE
35	BALANCE_L_R
36	BALANCE_F_R
37	BALANCE_CENTER
38	BALANCE_SUBS
39	ANALOG_TAPE_OUT
40	ANALOG_LEVEL_1
41	ANALOG_LEVEL_2
42	ANALOG_LEVEL_3
43	ANALOG_LEVEL_4
44	ANALOG_LEVEL_5
45	ANALOG_LEVEL_6
50	MSG_MODE
57	IDLE_TIMEOUT

Rev 1.01   11/9/05

Status Levels:

The RS232 can be set to automatically send changes to the RS232 port. This is done by selecting a "status level" in the RS232 menu, which means if any parameter changes, that level's bytes will be sent to the port. This is useful for monitoring master level, input and the like when the user has access to both the Casablanca III and the touch-panel controller, to keep them synchronized.

Status level 0:	No status returned.		
Status level 1:			
Byte #	Byte Description	Value	Value Description
1	Input	1-12	Input Number
2	Jack Selected	1-23	Currently Selected Jack, see parameter "Input_Jacks_Alterable" for list.
3	Video Jack Selected	1-8	Currently selected video jack.
4	master level	0-73	
5	mode	0	Matrix
		1	Special Matrix
		4	Stereo
		5	Analog Direct
		6	Analog Matrix
		7	Mono
		8	Circle II Cinema
		9	Circle II Music
		10	Circle II Mono Matrix
		11	Pro Logic IIx Movie
		12	Pro Logic IIx Music
		13	Pro Logic IIx Mono Mx
		14	DTS NEO:6 Cinema
		15	DTS NEO:6 Music
6	Standby	0	Unit in standby.
		1	Unit not in standby.
Status level 2:	All status level 1 bytes plus:		
7	lock	0	no locked
		1	locked
8	sample rate	0	32 KHz
		1	44.1KHz
		2	48KHz
		3	xx
		4	xx
		5	96KHz
9	user mute	0	Mute not activated.
		1	Mute activated.

Status Level 2 Con't

Byte #	Byte Description	Value	Value Description
10	Display brightness	0	full
		1	3/4
		2	1/2
		3	1/4
		4	off
11	Analog Level	0	Clip
		1	-6 through -1
		3	-12 through -7
		7	-18 through -11
		15	Input level below -18
12	Remote power	0-60	bit 2 = remote
			bit 3 = main 1
			bit 4 = main 2
			bit 5 = main 3
13	Current menu	0-x	Menu number.

Status level 3   All Status Level 1 & 2 bytes plus:

Byte#	Byte Description
14	TAPE_FOLLOW_INP
15	BALANCE_CLEAR
16	BALANCE_ANALOG_INPUT_LEVEL
17	TAPE_OUT
19	LEVEL_MASTER_INITIAL
20	PHASE
21	BALANCE_EQ
22	MAIN_TIME
23	CURSOR_VFD
24	SYS_FRCEN_FRSUB
25	MAIN1_TYPE
26	SYS_BAL3_SUB4_SUB5
27	VOLUME_FAST
28	MAIN2_TYPE
29	LEVEL_MAX
30	TAPE_DIGITAL_SOURCE
31	REMOTE_PULSE_DURATION
32	TAPE_OUT_DIGITAL
33	TAPE_OUT_VIDEO
34	MUTE_LEVEL

Byte#	Byte Description
35	MUTE_TRIGGER
36	RS232_BAUD_RATE
38	RS232_ECHO_STATUS
41	VOLUME_SLOW
46	MAIN_OFF_SEQUENCE
47	REMOTE_TYPE
48	MAIN3_TYPE
49	BALANCE_L_R
50	BALANCE_F_R
51	BALANCE_CENTER
52	BALANCE_SUBS
53	ANALOG_TAPE_OUT
54	ANALOG_LEVEL_1
55	ANALOG_LEVEL_2
56	ANALOG_LEVEL_3
57	ANALOG_LEVEL_4
58	ANALOG_LEVEL_5
59	ANALOG_LEVEL_6
64	MSG_MODE

Status level 4:   All status level 1-3 bytes plus all current input variable bytes:

Byte#	Byte Description
65	CENTER_CONFIG
66	LR_BW_LOP_FREQ
67	CEN_PF_FREQ
68	CEN_PF_SLOPE
69	CEN_PF_LOP_PHASE
70	CEN_BW_HIP_SLOPE
71	CEN_BW_HIP_FREQ
72	CENTER_LOPASS_TO
74	LR_CONFIG
75	CENTER_TYPE
76	LR_PF_FREQ
77	LR_PF_SLOPE
78	LR_PF_LOP_PHASE
79	LR_BW_HIP_SLOPE
80	LR_BW_HIP_FREQ
81	SUR_CONFIG
82	SUR_PF_FREQ
83	SUR_PF_SLOPE
84	LR_LR_SLOPE
85	SUR_PF_LOP_PHASE
86	LR_LR_LOP_PHASE
87	SUR_BW_HIP_SLOPE
88	SUR_BW_HIP_FREQ
89	DELAY_LEFT
90	DELAY_REAR_LEFT
91	DELAY_REAR_RIGHT
92	DELAY_CENTER
93	DELAY_RIGHT
94	DELAY_SUB_1
95	CEN_BW_LOP_FREQ
96	CEN_BW_LOP_SLOPE
97	CEN_BW_LOP_PHASE
98	CEN_LR_FREQ
99	CEN_LR_SLOPE

Byte#	Byte Description
100	DD_ADD_SPKRS
101	LEVEL_LEFT
102	LEVEL_CENTER
103	LEVEL_RIGHT
104	LEVEL_REAR_LEFT
105	LEVEL_REAR_RIGHT
106	LEVEL_SUB_1
107	SEARCH_6_VIDEO
108	LEVEL_PHTM_SURROUND
109	DTS_ADD_SPKRS
110	PL2X_PANORAMA
111	PL2X_CTR_WIDTH
112	NEO6_CTR_GAIN
113	SIX_SHOOTER
114	CS_DELAY_CENTER
115	CS_LEVEL_CENTER
116	CS_DELAY_SURROUND
117	CS_LEVEL_SURROUND
118	DD_2CH_MODE_ENC
119	DD_COMPRESSION
120	DD_COMPRESSION_HIGH
121	DD_COMPRESSION_LOW
122	DD_DIALOG_NORMALIZATION
123	DD_LFE_GAIN
124	DD_DELAY_CENTER
125	DD_LEVEL_CENTER
126	SUB2_FULL_XOVER
127	DD_LEVEL_SURROUND
128	DTS_LFE_GAIN
129	DTS_DELAY_CENTER
130	DTS_LEVEL_CENTER
131	DTS_DELAY_SURROUND
132	DTS_LEVEL_SURROUND
133	MODE_DEFAULT

Byte#	Byte Description
134	CEN_LR_LOP_PHASE
135	LFE_PHASE
136	SUB3_FULL_XOVER
137	SEARCH_1
138	SEARCH_2
139	SEARCH_3
140	SEARCH_4
141	SEARCH_5
142	SEARCH_6
143	CS_DLG_CLARITY
144	CS_CLARITY_LVL
145	DD_EX_+SPKR
146	VFD_BRIGHTNESS
147	NAME_VFD
148	NAME_OSD
149	OSD_BACKGROUND_COLOR
150	OSD_LEFT_EDGE
151	OSD_TOP_EDGE
152	OSD_CONFIG
153	OSD_DISPLAY_TIME
154	STATUS_MODE
155	STATUS_INPUT
156	STATUS_TAPE
157	STATUS_LEVEL
158	STATUS_EQ
159	STATUS_PHASE
160	STATUS_SOURCE
161	LR_LR_FREQ
162	POST_PROCESS
163	LR_BW_LOP_SLOPE
164	SUBS_NUMBER
165	SUB1_FULL_XOVER
166	SEARCH_1_VIDEO
167	SEARCH_2_VIDEO

Status Level 4 Con't

Byte#	Byte Description
168	SEARCH_4_VIDEO
169	SEARCH_3_VIDEO
170	SEARCH_5_VIDEO
171	LR_BW_LOP_PHASE
172	SOURCE_NOISE1_NOISEALL
173	SUR_BW_LOP_FREQ
174	SUR_BW_LOP_SLOPE
175	SUR_BW_LOP_PHASE
176	SUR_LR_FREQ
177	SUR_LR_SLOPE
178	SUR_LR_LOP_PHASE
179	SUB4_FULL_XOVER
182	DD_DELAY_SURROUND
185	SURROUND_CENTER
186	AUTO_SEARCH
187	LR_TYPE
188	SURROUND_TYPE
189	LEVEL_SIDE_LEFT
190	LEVEL_SIDE_RIGHT
191	LEVEL_REAR_CENTER
192	LEVEL_SUB_2
193	LEVEL_SUB_3
194	LEVEL_SUB_4
195	DELAY_REAR_CENTER
196	DELAY_SIDE_LEFT
197	DELAY_SIDE_RIGHT

Byte#	Byte Description
198	DELAY_SUB_2
199	DELAY_SUB_3
200	DELAY_SUB_4
203	STATUS_SAMPLE_RATE
204	JACK_SEARCH
205	DELAY_MASTER
206	DD_2CH_MODE_NENC
207	SURC_CONFIG
208	SURC_BW_HIP_FREQ
209	SURC_BW_HIP_SLOPE
210	SURC_BW_LOP_FREQ
211	SURC_BW_LOP_SLOPE
212	SURC_BW_LOP_PHASE
213	SURC_LR_FREQ
214	SURC_LR_LOP_PHASE
215	SURC_LR_SLOPE
216	SURC_PF_FREQ
217	SURC_PF_LOP_PHASE
218	SURC_PF_SLOPE
219	SURC_TYPE
221	LEVEL_PHTM_FRONT_CENTER
222	LEVEL_PHTM_SUR_CENTER
223	SUB5_FULL_XOVER
224	LEVEL_SUB_5
225	DELAY_SUB_5

Menus:

Menu #	Menu Description	Menu #	Menu Description
0	INPUT_SELECT_1	46	SETUP_NAMES_DIGITAL_COAX
1	MODE_1	47	SETUP_INPUT_JACK_NAMES
2	MODE_2	48	SETUP_NAMES_DIGITAL_MISC_1
3	TAPE_OUT	49	SETUP_ANALOG_INPUT_LEVELS
4	SETUP_GLOBAL_1	50	SETUP_NAMES_ANALOG
5	SETUP	51	BALANCE_1
6	INPUT_SELECT_2	52	BALANCE_2
7	SETUP_INPUT_1	53	SETUP_NAMES_VIDEO_1
8	SETUP_INPUT_2	55	CONFIG_LEFT_RIGHT_PHASE_PERFECT
9	SETUP_INPUT_SPEAKER_CONFIGURATION	56	CONFIG_LEFT_RIGHT_LINKWITZ_RILEY
10	SETUP_INPUT_CONFIG_LEFT_RIGHT	57	CONFIG_LEFT_RIGHT_BUTTERWORTH
11	SETUP_INPUT_CONFIG_CENTER_1	58	CONFIG_CENTER_PHASE_PERFECT
13	SETUP_INPUT_CONFIG_SURROUNDS	59	CONFIG_CENTER_LINKWITZ_RILEY
14	CONFIG_SUBS	60	CONFIG_CENTER_BUTTERWORTH
15	LEVELS_1	61	CONFIG_SURROUNDS_PHASE_PERFECT
16	SETUP_VIDEO_INPUTS	62	CONFIG_SURROUNDS_LINKWITZ_RILEY
17	DELAYS_1	63	CONFIG_SURROUNDS_BUTTERWORTH
19	SETUP_INPUT_SEARCH_ORDER	65	MODE_3
20	SETUP_DOLBY_DIGITAL_1	67	SETUP_MUTE_VOLUME
21	SETUP_CIRCLE_SURROUND	68	SETUP_NAMES_DIGITAL_MISC_2
22	SETUP_INPUT_ONSCREEN_DISPLAY	69	LEVELS_MAIN
23	SETUP_STATUS_DISPLAY_1	70	LEVELS_2
24	SETUP_INPUT_MISCELLANEOUS_1	72	DELAYS_2
25	SETUP_REMOTE_POWER	74	SETUP_STATUS_DISPLAY_2
28	STATUS_DOLBY_DIGITAL_1	75	SETUP_GLOBAL_2
29	SETUP_DTS_1	76	SETUP_INPUT_CONFIG_SURR_CEN
30	STATUS_DTS	77	CONFIG_SURRC_PHASE_PERFECT
31	SETUP_INPUT_3	78	CONFIG_SURRC_LINKWITZ_RILEY
32	NOT USED	79	CONFIG_SURRC_BUTTERWORTH
33	MACROS	80	MACROS_INPUT
34	MACROS_1_1	81	MACROS_SPEAKER
38	STATUS	82	MACROS_FACTORY
39	RS232	83	SETUP_NAMES_VIDEO_2
41	PHASE	96	SETUP_DOLBY_DIGITAL_3 (EX)
42	SETUP_INPUT_POST_PROCESS	97	SETUP_DTS_2
44	SETUP_DOLBY_DIGITAL_2	98	SETUP_DOLBY_DIGITAL_3 (DPLIIx)
45	MACROS_1_2		

Rev 1.01   11/9/05

Jack Variables

| Jack Name	Value
Analog 1	1
Analog 2	2
Analog 3	3
Analog 4	4
Analog 5	5
Analog 6	6
Coax 1	7
Coax 2	8
Coax 3	9
Coax 4	10
Coax 5	11
Coax 6	12
Tos 1	13
Tos 2	14
Glass 1	15
Glass 2	16
AES 1	17
BNC 2	18
Tos 3	19
Glass 4	20
RF1	21
RF2	22
INPUT*	23
OFF**	24
Video 1	1
Video 2	2
Video 3	3
Video 4	4
Video 5	5
Video 6	6
Video 7	7
Video 8	8
INPUT*	9
OFF**	0

In the Tape Out menu:

*"INPUT" selection means that the tape out menu mirrors the source active on the main system as the user changes from one source to another

**"OFF" means that there will be no source routed to the tape out jack.

The command to request a status level is 06 0x 00 00, where x= the status level. When this command is issued, there is a 6.7mS delay before the first status byte is received.
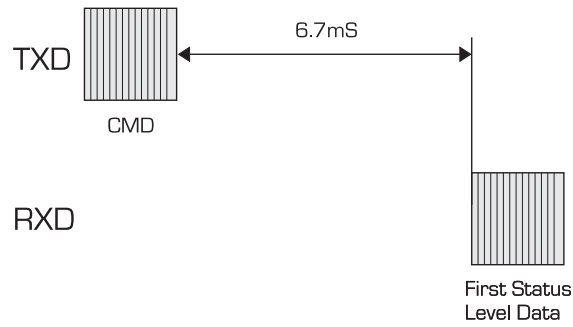
The ECHOS parameter in the Casablanca III determines what status levels of data are returned. The diagram below shows all 4 status' levels returned and the delay times between them. Note there is no delay time between status level 1 and 2. In addition, this diagram shows the duration of each status level.

Rev 1.01   11/9/05