

# External control for *FreeStyler* 3.5.x

Last update: 25-01-2013

## 1. *SendMessage*

## 2. *TCP/IP*

# 1. *SendMessage*

### Simple commands:

*Private Declare Function FindWindow Lib "user32" Alias "FindWindowA" (ByVal lpClassName As String, ByVal lpWindowName As String) As Long*

*Private Declare Function SendMessage Lib "user32" Alias "SendMessageA" (ByVal hwnd As Long, ByVal wParam As Long, ByVal lParam As Any) As Long*

*Private ThWnd As Long*

*Private Const WM\_USER = &H400*

*wParam : function code (see table at the end of this document)*

*lParam : Sendmessage Parameter (see table at the end of this document)*

1. Find FreeStyler window handle: *FindWindow(vbNullString, "FS")*
2. Send command  
Example, toggle blackout : *SendMessage(ThWnd, WM\_USER, 2, 1)*

### Change output :

*Private Declare Function SendMessage Lib "user32" Alias "SendMessageA" (ByVal hwnd As Long, ByVal wParam As Long, ByVal lParam As Any) As Long*

*Private Type COPYDATASTRUCT*

*dwData As Long*

*cbData As Long*

*lpData As Long*

*End Type*

*Private ThWnd As Long*

*Private Const WM\_COPYDATA = &H4A*

*Private Const WM\_USER = &H400*

*Private Declare Function FindWindow Lib "user32" Alias "FindWindowA" (ByVal lpClassName As String, ByVal lpWindowName As String) As Long*

**Sub SendData(Functioncode As Byte, Length As Long, arrValues() As Byte)**

*Dim cdCopyData As COPYDATASTRUCT*

*Dim DMXvalues() As Byte*

*Dim teller As Byte*

*Dim n As Integer*

*Dim i As Integer*

*cdCopyData.dwData = Functioncode*

*cdCopyData.cbData = Length*

*cdCopyData.lpData = VarPtr(arrvalues(0))*

*ThWnd = FindWindow(vbNullString, "FS")*

*If ThWnd > 0 Then*

*i = SendMessage(ThWnd, WM\_COPYDATA, Me.hwnd, cdCopyData)*

*End If*

**End Sub**

	Function code	Array length	Array value	
Output values	1	512 or 1024	0-255	First send output mask before output values
Override values	2	512 or 1024	0-255	First send override mask before override values
Override mask	3	512 or 1024	0: discard 1: apply	
Output mask	4	512 or 1024	0: apply 1: discard	
Load sequence into cue	5	variable	Convert string to byte, first two characters of string should be from 00 to 19. ex.: 04test.chb	
Set sequence options	6	2	1 <sup>st</sup> byte: 0-19 (sequence number) 2 <sup>nd</sup> byte: 1 : Release All 2: Loop sequence 4: Reverse 8: Random 16 Restore values 32 React to sound 64 React to tap 128 Disable Fades	
Sequence go to step	7	2	1 <sup>st</sup> byte: 0-19 (sequence number)	

			2 <sup>nd</sup> byte: stepnumber	
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[VB sourcecode available on demand](#)

## 2. TCP/IP port 3332

### Byte Protocol: 9 bytes

byte 0: "F"

byte 1: "S"

byte 2: "O"

byte 3: "D"

byte 4 and 5 : Code ("xxx") *(see table at the end of this document)*

byte 6 : TCP/IP Argument *(see table at the end of this document)*

button state : 0 or 255 (0 = on release, 255 = on click)

fader value: 0 to 255 (green rows in the table)

byte 7 and 8 : (for later use)

### ASCII Protocol:

Char 0: "F"

Char 1: "S"

Char 2: "O"

Char 3: "C"

Char 4 to 6: Code ("xxx") *(see table at the end of this document)*

Char 7 to 9: TCP/IP Argument *(see table at the end of this document)*

button state : 0 or 255 (0 = on release, 255 = on click)

fader value: 0 to 255 (green rows in the table)

Char 10 to 12: argument ("zzz") *optional*

#### examples:

"FSOC002255" -> Toggle blackout

"FSOC124025" -> Gobo1 channel @ 25

# Request button captions and other data

## Byte Protocol: 9 bytes

byte 0: "F"

byte 1: "S"

byte 2: "B"

byte 3: "C"

byte 4,5 and 6 : Code (*see table*)

byte 7,8 and 9 : 0

001	Cue captions
002	Override button captions
003	Cuelist captions of current page
004	All cuelist captions
005	Cue status
006	Override buttons flash/latch setting
007	Override buttons status
008	Group names
009	Group status
010	FreeStyler version
011	Submaster names
012	Submaster status
013	Submaster intensity

### examples:

"FSBC001000" -> You will receive the 20 captions of the current cue (comma separated)

"FSBC002000" -> You will receive the 32 captions of the current override buttons (comma separated)

"FSBC003000" -> You will receive the 16 captions of the current cuelist's page (comma separated)

Function	Code	Sendmessage Argument	TCP/IP Argument
Toggle all fixtures	0	1	255
Toggle favorite	1	1	255
Toggle blackout	2	1	255
Toggle Freeze	123	1	255
Release all	24	1	255
Fog / Smoke	176	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Fog level	304	0-255	0-255
Fog fan level	305	0-255	0-255
Lock MIDI input	181	1	255
Open all	569	1	255
Open gobo	3	1	255
Open color	4	1	255
Open Pan/Tilt	5	1	255
Open beam	6	1	255
Open macro	7	1	255
Open dmx400	8	1	255
Open Lamp	10	1	255
Open create sequence	11	1	255
Open cue	12	1	255
Open sound	13	1	255
Open output	14	1	255
Open framing	29	1	255
Open override buttons	570	1	255
Open commandline	571	1	255
Open master	572	1	255
Open submaster	573	1	255
Open Smoke	574	1	255
Show sliders	15	1	255
Next gobo	16	1	255
Next color	17	1	255
Next gobo2	18	1	255
Next color2	19	1	255
Previous Gobo	177	1	255
Previous Color	178	1	255
Previous Gobo2	179	1	255
Previous Color2	180	1	255
Pan right	20	1	255
Pan 16 right	585	1	255
Pan left	21	1	255

Pan 16 left	586	1	255
Center	566	1	255
Tilt up	22	1	255
Tilt 16 up	587	1	255
Tilt down	23	1	255
Tilt 16 down	588	1	255
Pan lock	567	1	255
Tilt lock	568	1	255
Flip	565	1	255
Enable joystick	44	1	255
Toggle Joystick Pan/Tilt	122	1	255
Toggle Relative Pan-Tilt	150	1	255
New sequence	25	1	255
Insert scene	26	1	255
Remove scene	27	1	255
Add scene	28	1	255
Next scene	575	1	255
Previous scene	576	1	255
Play sequence	577	1	255
Fade time +1	589	1	255
Fade time -1	590	1	255
Speed time +1	591	1	255
Speed time -1	592	1	255
Open sequence	593	1	255
Save sequence	594	1	255
Quicksave	578	1	255
Save to all	579	1	255
Undo	580	1	255
Open FX	581	1	255
Zone 1	30	1	255
Zone 2	31	1	255
Zone 3	32	1	255
Zone 4	33	1	255
Select next fixture	288	1	255
Select previous fixture	289	1	255
Select even fixtures	290	1	255
Select odd fixtures	291	1	255
Select same even fixtures	292	1	255
Select same odd fixtures	293	1	255
Locate selected fixtures	294	1	255
Enable sound selected fixtures	295	1	255
Previous group	296	1	255
Next Group	297	1	255

Group 1	34	1	255
Group 2	35	1	255
Group 3	36	1	255
Group 4	37	1	255
Group 5	38	1	255
Group 6	39	1	255
Group 7	40	1	255
Group 8	41	1	255
Group 9	42	1	255
Group 10	43	1	255
Group 11	550	1	255
Group 12	551	1	255
Group 13	552	1	255
Group 14	553	1	255
Group 15	554	1	255
Group 16	555	1	255
Group 17	556	1	255
Group 18	557	1	255
Group 19	558	1	255
Group 20	559	1	255
Group 21	560	1	255
Group 22	561	1	255
Group 23	562	1	255
Group 24	563	1	255
Blackout group 1	98	1	255
Blackout group 2	99	1	255
Blackout group 3	100	1	255
Blackout group 4	101	1	255
Blackout group 5	102	1	255
Blackout group 6	103	1	255
Blackout group 7	104	1	255
Blackout group 8	105	1	255
Blackout group 9	106	1	255
Blackout group 10	107	1	255
Blackout group 11	108	1	255
Blackout group 12	109	1	255
Blackout group 13	110	1	255
Blackout group 14	111	1	255
Blackout group 15	112	1	255
Blackout group 16	113	1	255
Blackout group 17	114	1	255
Blackout group 18	115	1	255
Blackout group 19	116	1	255

Blackout group 20	117	1	255
Blackout group 21	118	1	255
Blackout group 22	119	1	255
Blackout group 23	120	1	255
Blackout group 24	121	1	255
Dis. fixture override	233	1	255
Dis. override group 1	240	1	255
Dis. override group 2	241	1	255
Dis. override group 3	242	1	255
Dis. override group 4	243	1	255
Dis. override group 5	244	1	255
Dis. override group 6	245	1	255
Dis. override group 7	246	1	255
Dis. override group 8	247	1	255
Dis. override group 9	248	1	255
Dis. override group 10	249	1	255
Dis. override group 11	250	1	255
Dis. override group 12	251	1	255
Dis. override group 13	252	1	255
Dis. override group 14	253	1	255
Dis. override group 15	254	1	255
Dis. override group 16	255	1	255
Dis. override group 17	256	1	255
Dis. override group 18	257	1	255
Dis. override group 19	258	1	255
Dis. override group 20	259	1	255
Dis. override group 21	260	1	255
Dis. override group 22	261	1	255
Dis. override group 23	262	1	255
Dis. override group 24	263	1	255
Multiselect sequence	45	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Toggle Sequence 1	46	1	255
Toggle Sequence 2	47	1	255
Toggle Sequence 3	48	1	255
Toggle Sequence 4	49	1	255
Toggle Sequence 5	50	1	255
Toggle Sequence 6	51	1	255
Toggle Sequence 7	52	1	255
Toggle Sequence 8	53	1	255
Toggle Sequence 9	54	1	255
Toggle Sequence 10	55	1	255
Toggle Sequence 11	56	1	255

Toggle Sequence 12	57	1	255
Toggle Sequence 13	58	1	255
Toggle Sequence 14	59	1	255
Toggle Sequence 15	60	1	255
Toggle Sequence 16	61	1	255
Toggle Sequence 17	62	1	255
Toggle Sequence 18	63	1	255
Toggle Sequence 19	64	1	255
Toggle Sequence 20	65	1	255
Start sequence 1	505	1	255
Start sequence 2	506	1	255
Start sequence 3	507	1	255
Start sequence 4	508	1	255
Start sequence 5	509	1	255
Start sequence 6	510	1	255
Start sequence 7	511	1	255
Start sequence 8	512	1	255
Start sequence 9	513	1	255
Start sequence 10	514	1	255
Start sequence 11	515	1	255
Start sequence 12	516	1	255
Start sequence 13	517	1	255
Start sequence 14	518	1	255
Start sequence 15	519	1	255
Start sequence 16	520	1	255
Start sequence 17	521	1	255
Start sequence 18	522	1	255
Start sequence 19	523	1	255
Start sequence 20	524	1	255
Stop sequence 1	525	1	255
Stop sequence 2	526	1	255
Stop sequence 3	527	1	255
Stop sequence 4	528	1	255
Stop sequence 5	529	1	255
Stop sequence 6	530	1	255
Stop sequence 7	531	1	255
Stop sequence 8	532	1	255
Stop sequence 9	533	1	255
Stop sequence 10	534	1	255
Stop sequence 11	535	1	255
Stop sequence 12	536	1	255
Stop sequence 13	537	1	255
Stop sequence 14	538	1	255

Stop sequence 15	539	1	255
Stop sequence 16	540	1	255
Stop sequence 17	541	1	255
Stop sequence 18	542	1	255
Stop sequence 19	543	1	255
Stop sequence 20	544	1	255
Masterspeed	206	0-255	0-255
Sequence 1 speed	156	0-255	0-255
Sequence 2 speed	157	0-255	0-255
Sequence 3 speed	158	0-255	0-255
Sequence 4 speed	159	0-255	0-255
Sequence 5 speed	160	0-255	0-255
Sequence 6 speed	161	0-255	0-255
Sequence 7 speed	162	0-255	0-255
Sequence 8 speed	163	0-255	0-255
Sequence 9 speed	164	0-255	0-255
Sequence 10 speed	165	0-255	0-255
Sequence 11 speed	166	0-255	0-255
Sequence 12 speed	167	0-255	0-255
Sequence 13 speed	168	0-255	0-255
Sequence 14 speed	169	0-255	0-255
Sequence 15 speed	170	0-255	0-255
Sequence 16 speed	171	0-255	0-255
Sequence 17 speed	172	0-255	0-255
Sequence 18 speed	173	0-255	0-255
Sequence 19 speed	174	0-255	0-255
Sequence 20 speed	175	0-255	0-255
Disable all buttons	265	1	255
Previous Overr. tab	298	1	255
Next overr. tab	299	1	255
Overridebuttons tab 1	234	1	255
Overridebuttons tab 2	235	1	255
Overridebuttons tab 3	236	1	255
Overridebuttons tab 4	237	1	255
Overridebuttons tab 5	238	1	255
Overridebuttons tab 6	239	1	255
Override button1	66	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button2	67	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button3	68	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button4	69	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button5	70	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)

Override button6	71	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button7	72	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button8	73	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button9	74	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button10	75	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button11	76	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button12	77	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button13	78	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button14	79	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button15	80	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button16	81	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button17	82	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button18	83	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button19	84	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button20	85	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button21	86	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button22	87	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button23	88	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button24	89	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button25	90	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button26	91	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button27	92	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button28	93	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button29	94	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button30	95	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button31	96	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Override button32	97	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Overridebutton ...	384		
Gobo 1 channel	124	0-255	0-255
Gobo 2 channel	125	0-255	0-255
Gobo Rotation channel	126	0-255	0-255
Gobo 2 Rotation channel	127	0-255	0-255
Color channel	128	0-255	0-255
Color 2 channel	129	0-255	0-255

Cyan channel	130	0-255	0-255
Magenta channel	131	0-255	0-255
Yellow channel	132	0-255	0-255
CTO/Amber channel	582	0-255	0-255
White1 channel	583	0-255	0-255
White2 channel	584	0-255	0-255
Pan 8bit channel	133	0-255	0-255
Tilt 8bit channel	135	0-255	0-255
Shutter channel	137	0-255	0-255
Intensity channel	138	0-255	0-255
Prism channel	139	0-255	0-255
Prism Rotation channel	140	0-255	0-255
Focus channel	141	0-255	0-255
Zoom channel	142	0-255	0-255
Iris channel	143	0-255	0-255
Frost channel	144	0-255	0-255
Gobo ch. + 1	340	1	255
Gobo ch. - 1	341	1	255
Gobo2 ch. + 1	342	1	255
Gobo2 ch. - 1	343	1	255
Gobo3 ch. + 1	344	1	255
Gobo3 ch. - 1	345	1	255
Color ch. + 1	346	1	255
Color ch. - 1	347	1	255
Color2 ch. + 1	348	1	255
Color2 ch. - 1	349	1	255
GoboRot ch. + 1	350	1	255
GoboRot ch. - 1	351	1	255
GoboRot2 ch. + 1	352	1	255
GoboRot2 ch. - 1	353	1	255
Cyan ch. + 1	354	1	255
Cyan ch. - 1	355	1	255
Magenta ch. + 1	356	1	255
Magenta ch. - 1	357	1	255
Yellow ch. + 1	358	1	255
Yellow ch. - 1	359	1	255
Pan ch. + 1	360	1	255
Pan ch. - 1	361	1	255
Tilt ch. + 1	362	1	255
Tilt ch. - 1	363	1	255
Pan16 ch. + 1	364	1	255
Pan16 ch. - 1	365	1	255
Tilt16 ch. + 1	366	1	255

Tilt16 ch. - 1	367	1	255
Shutter ch. + 1	368	1	255
Schutter ch. - 1	369	1	255
Dimmer ch. + 1	370	1	255
Dimmer ch. - 1	371	1	255
Prism ch. + 1	372	1	255
Prism ch. - 1	373	1	255
PrismRot ch. + 1	374	1	255
PrismRot ch. - 1	375	1	255
Focus ch. + 1	376	1	255
Focus ch. - 1	377	1	255
Zoom ch. + 1	378	1	255
Zoom ch. - 1	379	1	255
Iris ch. + 1	380	1	255
Iris ch. - 1	381	1	255
Frost ch. + 1	382	1	255
Frost ch. - 1	383	1	255
Shutter open	545	1	255
Shutter closed	546	1	255
Strobe Low	547	1	255
Strobe Med	548	1	255
Strobe High	549	1	255
Random Gobo 1	485	1	255
Random Color 1	486	1	255
Random Iris	487	1	255
Random Strobe	488	1	255
Random Dimmer	489	1	255
Random RGB	490	1	255
Random Pan/Tilt	491	1	255
Random Gobo 1 by group	492	1	255
Random Color 1 by group	493	1	255
Random Iris by group	494	1	255
Random Strobe by group	495	1	255
Random Dimmer by group	496	1	255
Random RGB by group	497	1	255
Random Pan/Tilt by group	498	1	255
Tap Sync	9	1	255
Manual trigger	207	1	255
Sound To Light trigger	232	1	255
Disable tap / manual trigger	134	1	255
Empty	136	1	255
Midi Page 1	145	1	255
Midi Page 2	146	1	255

Midi Page 3	147	1	255
Midi Page 4	148	1	255
Midi Page 5	149	1	255
Shift function	264	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
Touchscreen Page 1	499	1	255
Touchscreen Page 2	500	1	255
Touchscreen Page 3	501	1	255
Touchscreen Page 4	502	1	255
Touchscreen Page 5	503	1	255
Touchscreen Page 6	504	1	255
Master 100%	151	1	255
Master 0%	152	1	255
Fade In	153	1	255
Fade Out	154	1	255
Master Intensity	155	0-255	0-255
Previous submaster tab	302	1	255
Next submaster tab	303	1	255
Toggle Submaster 1	182	1	255
Toggle Submaster 2	183	1	255
Toggle Submaster 3	184	1	255
Toggle Submaster 4	185	1	255
Toggle Submaster 5	186	1	255
Submaster Go 1	187	1	255
Submaster Back 1	188	1	255
Submaster Go 2	189	1	255
Submaster Back 2	190	1	255
Submaster Go 3	191	1	255
Submaster Back 3	192	1	255
Submaster Go 4	193	1	255
Submaster Back 4	194	1	255
Submaster Go 5	195	1	255
Submaster Back 5	196	1	255
Submaster Page 1	197	1	255
Submaster Page 2	198	1	255
Submaster Page 3	199	1	255
Submaster Page 4	200	1	255
Subm. Intensity 1	201	0-255	0-255
Subm. Intensity 2	202	0-255	0-255
Subm. Intensity 3	203	0-255	0-255
Subm. Intensity 4	204	0-255	0-255
Subm. Intensity 5	205	0-255	0-255
Submaster Run 1	385	1	255

Submaster Run 2	386	1	255
Submaster Run 3	387	1	255
Submaster Run 4	388	1	255
Submaster Run 5	389	1	255
Submaster Run 6	390	1	255
Submaster Run 7	391	1	255
Submaster Run 8	392	1	255
Submaster Run 9	393	1	255
Submaster Run 10	394	1	255
Submaster Run 11	395	1	255
Submaster Run 12	396	1	255
Submaster Run 13	397	1	255
Submaster Run 14	398	1	255
Submaster Run 15	399	1	255
Submaster Run 16	400	1	255
Submaster Run 17	401	1	255
Submaster Run 18	402	1	255
Submaster Run 19	403	1	255
Submaster Run 20	404	1	255
Submaster Stop 1	405	1	255
Submaster Stop 2	406	1	255
Submaster Stop 3	407	1	255
Submaster Stop 4	408	1	255
Submaster Stop 5	409	1	255
Submaster Stop 6	410	1	255
Submaster Stop 7	411	1	255
Submaster Stop 8	412	1	255
Submaster Stop 9	413	1	255
Submaster Stop 10	414	1	255
Submaster Stop 11	415	1	255
Submaster Stop 12	416	1	255
Submaster Stop 13	417	1	255
Submaster Stop 14	418	1	255
Submaster Stop 15	419	1	255
Submaster Stop 16	420	1	255
Submaster Stop 17	421	1	255
Submaster Stop 18	422	1	255
Submaster Stop 19	423	1	255
Submaster Stop 20	424	1	255
Submaster Go 1	425	1	255
Submaster Go 2	426	1	255
Submaster Go 3	427	1	255
Submaster Go 4	428	1	255

Submaster Go 5	429	1	255
Submaster Go 6	430	1	255
Submaster Go 7	431	1	255
Submaster Go 8	432	1	255
Submaster Go 9	433	1	255
Submaster Go 10	434	1	255
Submaster Go 11	435	1	255
Submaster Go 12	436	1	255
Submaster Go 13	437	1	255
Submaster Go 14	438	1	255
Submaster Go 15	439	1	255
Submaster Go 16	440	1	255
Submaster Go 17	441	1	255
Submaster Go 18	442	1	255
Submaster Go 19	443	1	255
Submaster Go 20	444	1	255
Submaster Back 1	445	1	255
Submaster Back 2	446	1	255
Submaster Back 3	447	1	255
Submaster Back 4	448	1	255
Submaster Back 5	449	1	255
Submaster Back 6	450	1	255
Submaster Back 7	451	1	255
Submaster Back 8	452	1	255
Submaster Back 9	453	1	255
Submaster Back 10	454	1	255
Submaster Back 11	455	1	255
Submaster Back 12	456	1	255
Submaster Back 13	457	1	255
Submaster Back 14	458	1	255
Submaster Back 15	459	1	255
Submaster Back 16	460	1	255
Submaster Back 17	461	1	255
Submaster Back 18	462	1	255
Submaster Back 19	463	1	255
Submaster Back 20	464	1	255
Submaster intens. 1	465	0-255	0-255
Submaster intens. 2	466	0-255	0-255
Submaster intens. 3	467	0-255	0-255
Submaster intens. 4	468	0-255	0-255
Submaster intens. 5	469	0-255	0-255
Submaster intens. 6	470	0-255	0-255
Submaster intens. 7	471	0-255	0-255

Submaster intens. 8	472	0-255	0-255
Submaster intens. 9	473	0-255	0-255
Submaster intens. 10	474	0-255	0-255
Submaster intens. 11	475	0-255	0-255
Submaster intens. 12	476	0-255	0-255
Submaster intens. 13	477	0-255	0-255
Submaster intens. 14	478	0-255	0-255
Submaster intens. 15	479	0-255	0-255
Submaster intens. 16	480	0-255	0-255
Submaster intens. 17	481	0-255	0-255
Submaster intens. 18	482	0-255	0-255
Submaster intens. 19	483	0-255	0-255
Submaster intens. 20	484	0-255	0-255
Submaster list change 1	595	0-255	0-255
Submaster list change 2	596	0-255	0-255
Submaster list change 3	597	0-255	0-255
Submaster list change 4	598	0-255	0-255
Submaster list change 5	599	0-255	0-255
Submaster list change 6	600	0-255	0-255
Submaster list change 7	601	0-255	0-255
Submaster list change 8	602	0-255	0-255
Submaster list change 9	603	0-255	0-255
Submaster list change 10	604	0-255	0-255
Submaster list change 11	605	0-255	0-255
Submaster list change 12	606	0-255	0-255
Submaster list change 13	607	0-255	0-255
Submaster list change 14	608	0-255	0-255
Submaster list change 15	609	0-255	0-255
Submaster list change 16	610	0-255	0-255
Submaster list change 17	611	0-255	0-255
Submaster list change 18	612	0-255	0-255
Submaster list change 19	613	0-255	0-255
Submaster list change 20	614	0-255	0-255
MIDI to DMX 1	208	0-255	0-255
MIDI to DMX 2	209	0-255	0-255
MIDI to DMX 3	210	0-255	0-255
MIDI to DMX 4	211	0-255	0-255
MIDI to DMX 5	212	0-255	0-255
MIDI to DMX 6	213	0-255	0-255
MIDI to DMX 7	214	0-255	0-255
MIDI to DMX 8	215	0-255	0-255
MIDI to DMX 9	216	0-255	0-255
MIDI to DMX 10	217	0-255	0-255

MIDI to DMX 11	218	0-255	0-255
MIDI to DMX 12	219	0-255	0-255
MIDI to DMX 13	220	0-255	0-255
MIDI to DMX 14	221	0-255	0-255
MIDI to DMX 15	222	0-255	0-255
MIDI to DMX 16	223	0-255	0-255
MIDI to DMX 17	224	0-255	0-255
MIDI to DMX 18	225	0-255	0-255
MIDI to DMX 19	226	0-255	0-255
MIDI to DMX 20	227	0-255	0-255
MIDI to DMX 21	228	0-255	0-255
MIDI to DMX 22	229	0-255	0-255
MIDI to DMX 23	230	0-255	0-255
MIDI to DMX 24	231	0-255	0-255
Cuelist tab 1	266	1	255
Cuelist tab 2	267	1	255
Cuelist tab 3	268	1	255
Cuelist tab 4	269	1	255
Cuelist tab 5	270	1	255
Cuelist tab 6	271	1	255
Previous cuelist tab	300	1	255
Next cuelist tab	301	1	255
Toggle Cuelist 1	272	1	255
Toggle Cuelist 2	273	1	255
Toggle Cuelist 3	274	1	255
Toggle Cuelist 4	275	1	255
Toggle Cuelist 5	276	1	255
Toggle Cuelist 6	277	1	255
Toggle Cuelist 7	278	1	255
Toggle Cuelist 8	279	1	255
Toggle Cuelist 9	280	1	255
Toggle Cuelist 10	281	1	255
Toggle Cuelist 11	282	1	255
Toggle Cuelist 12	283	1	255
Toggle Cuelist 13	284	1	255
Toggle Cuelist 14	285	1	255
Toggle Cuelist 15	286	1	255
Toggle Cuelist 16	287	1	255
DMX400 Toggle mode	564	1	255
DMX400 master	306	0-255	0-255
DMX400 background	307	0-255	0-255
DMX400 Program Select	308	1	255
DMX400 Speed	309	0-255	0-255

DMX400 Blackout	310	1	255
DMX400 Full On	311	1 (mousedown) 0 (mouseup)	255 (mousedown) 0 (mouseup)
DMX400 Fade	312	1	255
DMX400 FadeTime	313	0-255	0-255
DMX400 Interval	314	0-255	0-255
DMX400 Auto Change	315	1	255
DMX400 Color Change	316	1	255
DMX400 Same Color	317	1	255
DMX400 Vivid Colors	318	1	255
Command 0	319	1	255
Command 1	320	1	255
Command 2	321	1	255
Command 3	322	1	255
Command 4	323	1	255
Command 5	324	1	255
Command 6	325	1	255
Command 7	326	1	255
Command 8	327	1	255
Command 9	328	1	255
Command +	329	1	255
Command -	330	1	255
Command /	331	1	255
Command @	332	1	255
Command DMX	333	1	255
Command SHIFT	334	1	255
Command CLR	335	1	255
Command BS	336	1	255
Command ENTER	337	1	255
Command history up	338	1	255
Command history down	339	1	255