

External control for *FreeStyler* 3.6.51

Last update: 10-08-2019

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)

Param : 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 st byte: 0-19 (sequence number) 2 nd 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 st byte: 0-19 (sequence number) 2 nd byte: stepnumber	

VB sourcecode available on demand

2. TCP/IP port 3332 and port 3333

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
014	Blackout,Freeze,favorite status
015	Current selected cue in submasters
016	Cuelist status
017	Fixture names
018	Fixture address
019	Cue speed
020	Master cue speed
021	Master intensity
022	Fog and Fan levels

023	Fixture status selected/unselected
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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
Submaster toggle 1	615	1	255
Submaster toggle 2	616	1	255
Submaster toggle 3	617	1	255
Submaster toggle 4	618	1	255
Submaster toggle 5	619	1	255
Submaster toggle 6	620	1	255
Submaster toggle 7	621	1	255
Submaster toggle 8	622	1	255
Submaster toggle 9	623	1	255
Submaster toggle 10	624	1	255
Submaster toggle 11	625	1	255
Submaster toggle 12	626	1	255
Submaster toggle 13	627		
Submaster toggle 14	628		
Submaster toggle 15	629		
Submaster toggle 16	630		
Submaster toggle 17	631		
Submaster toggle 18	632		
Submaster toggle 19	633		
Submaster toggle 20	634		
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Release override gobo2	638		
Release override gobo3	639		
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Release override color2	641		
Release override gobo1 rot.	642		
Release override gobo2 rot.	643		
Release override red	644		

Release override green	645		
Release override blue	646		
Release override amber	647		
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Release override white2	649		
Release override pan	650		
Release override tilt	651		
Release override shutter	652		
Release override strobe	653		
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Master spd 100%	667		
Master spd -5%	668		
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Open cuelist	670		
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Toggle Cuelist 20	674		
Toggle Cuelist 21	675		
Toggle Cuelist 22	676		
Toggle Cuelist 23	677		
Toggle Cuelist 24	678		
Toggle Cuelist 25	679		
Toggle Cuelist 26	680		
Toggle Cuelist 27	681		
Toggle Cuelist 28	682		
Toggle Cuelist 29	683		
Toggle Cuelist 30	684		
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Toggle Cuelist 32	686		
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