

Appendix D

Menu Map

The Studio Beam fixture’s onboard menu system allows you to:

- Assign a DMX start channel
- Access fixture options such as, homing the fixture, viewing fixture status, crossloading software, and performing self tests
- Preset (PRST) programming options that allow you to create, store, and play scenes from the fixture’s on-board memory.

For a more detailed description, see individual menu options listed in “Chapter 4” .

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
ADDR	Cxxx				change the existing DMX start channel
	PLAY	OFF			set preset playback off
		ON			set preset playback on
		SCN			display which scene is currently playing
PRST	EDIT	SN01 - SN16	SHUT	CLSD	close the shutter
				P01–P26	select shutter strobe at periodic intervals from slow (P 01) to fast (P268)
				NN01–NN26	select shutter strobe at random intervals from slow (NN01) to fast (NN26)
				NK01–NK26	select shutter strobe at random intervals from slow (NK01) to fast (NK26), in synchronization with the random strobing of all other Studio Beam fixtures on the link
				RS01–RS26	select shutter ramp open slow (RS01) to fast (RS26), snap shut
				SR01–SR26	select shutter snap open, ramp shut slow (SR01) to fast (SR26)
				RR01–RR26	select shutter ramp open, ramp shut slow (RR01) to fast (RR26)
				NR01–NR26	select the frequency to randomly ramp open slow (NR01) to fast (NR26), snap shut
				NS01–NS26	select the frequency to snap open, randomly ramp shut slow (NS01) to fast (NS26)
				OPEN	open the shutter
			DIM	D001–D255	select a dim value from dark (D001) to bright (D255)
			PAN	-49.9–+49.9	select a pan value from -49.9% to +49.9% of the pan range
			TILT	-49.9–+49.9	select a tilt value from -49.9% to +49.9% of the tilt range

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Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
PRST (cont.)	EDIT (cont.)	SN01 - SN16 (cont.)	COLC	Full Speed Mode	
				CON	continuous—select exact positioning at any point on the color wheel
				IDX	index—divide the cyan, magenta, and yellow color wheels into eight equal sections, full speed
				MIX	pure mix—access the color mixing portion of the wheels
				WSP	spin—set all three color wheels to spin mode, (spin speed and direction set by each individual wheel)
				CYC	cycle—use only the color mixing portion (for all three color wheels) to cycle colors from red to green to blue (speed set by cyan channel)
				SCN	scan—oscillate within the color mixing portion of the color wheel (speed set by each individual wheel)
				RND	random—perform random color chase of 12 factory-selected colors using the three color wheels (speed set by cyan channel)
				BLK	blink—close shutter between indexed color changes
				MSpeed Mode	
				MCON	continuous—select exact positioning at any point on the color wheel
				MIDX	index—divide the cyan, magenta, and yellow color wheels into eight equal sections
				MMIX	pure mix—access the color mixing portion of the wheels
				MWSP	spin—set all three color wheels to spin mode, (spin speed and direction set by each individual wheel)
			MCYC	cycle—use only the color mixing portion (for all three color wheels) to cycle colors from red to green to blue (speed set by cyan channel)	
			MSCN	scan—oscillate within the color mixing portion of the color wheel (speed set by each individual wheel)	
			MRND	random—perform random color chase of 12 factory-selected colors using the three color wheels (speed set by cyan channel)	
			MBLK	blink—close shutter between indexed color changes	
			CYAN	Continuous (available with COLC set to CON or MCON)	
				D000 - D357	select an exact position on the cyan color wheel from 0° (D000) to 357° (D357)
				Indexed (available with COLC set to IDX or MIDX)	
				OPEN	select the open “white” position on the cyan color wheel
				C 1	select the additional fixed color (deep red) on the cyan color wheel
				S 6	select most saturated position on the cyan color wheel

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description			
PRST (cont.)	EDIT (cont.)	SN01 - SN16 (cont.)	CYAN (cont.)	S 5	select second most saturated position on the cyan color wheel			
				S 4	select third most saturated position on the cyan color wheel			
				S 3	select fourth most saturated position on the cyan color wheel			
				S 2	select fifth most saturated position on the cyan color wheel			
				S 1	select least saturated position on the cyan color wheel			
				Pure Mix (available with COLC set to MIX or MMIX)				
				C000 - C255	select an exact position within the color mixing section of the cyan color wheel from most saturated (C000) to least saturated (C255)			
				Wheel Spin (available with COLC set to WSP or MWSP)				
				D000 - D357	select a fixed position on the cyan color wheel from 0° (D000) to 357° (D357)			
				WR60 - WR01	select a reverse cyan color wheel spin speed from fast (WR60) to slow (WR01)			
				STIL	stop the cyan color wheel from spinning			
				WF01 - WF60	select a forward cyan color wheel spin speed from slow (WR01) to fast (WR60)			
				Color Cycle (available with COLC set to CYC or MCYC)				
				L000 - L255	select the speed at which all three color wheels move to the next cycle color, from slow (L000) to fast (L255)			
				Color Scan (available with COLC set to SCN or MSCN)				
				K001 - K128	select the speed to scan (oscillate) within the color mixing portion of the cyan color wheel from slow (K001) to fast (K128)			
				Random Color (available with COLC set to RND or MRND)				
				N000 - N255	select the speed at which all three color wheels move to the next random color, from slow (N000) to fast (N255)			
				Blink (available with COLC set to BLK or MBLK)				
				BC 1	select the additional fixed color (deep red) on the cyan color wheel with shutter blink			
				BS 6	choose the most saturated position on the cyan color wheel with shutter blink			
				BS 5	choose the second most saturated position on the cyan color wheel with shutter blink			
				BS 4	choose the third most saturated position on the cyan color wheel with shutter blink			
				BS 3	choose the fourth most saturated position on the cyan color wheel with shutter blink			
BS 2	choose the fifth most saturated position on the cyan color wheel with shutter blink							
BS 1	choose the least saturated position on the cyan color wheel with shutter blink							

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Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
PRST (cont.)	EDIT (cont.)	SN01 - SN16 (cont.)	MAGN	Continuous (available with COLC set to CON or MCON)	
				D000 - D357	select an exact position on magenta color wheel from 0° (D000) to 357° (D357)
				Indexed (available with COLC set to IDX or MIDX)	
				OPEN	select the open "white" position on magenta color wheel
				M 1	select the additional fixed color (CTO) on magenta color wheel
				S 6	select most saturated position on magenta color wheel
				S 5	select second most saturated position on magenta color wheel
				S 4	select third most saturated position on magenta color wheel
				S 3	select fourth most saturated position on magenta color wheel
				S 2	select fifth most saturated position on magenta color wheel
				S 1	select least saturated position on magenta color wheel
				Pure Mix (available with COLC set to MIX or MMIX)	
				M000 - M255	select an exact position within the color mixing section of the magenta color wheel from most saturated (C000) to least saturated (C255)
				Wheel Spin (available with COLC set to WSP or MWSP)	
				D000 - D357	select a fixed position on the magenta color wheel from 0° (D000) to 357° (D357)
				WR60- WR01	select a reverse magenta color wheel spin speed from fast (WR60) to slow (WR01)
				STIL	stop the magenta color wheel from spinning
				WF01 - WF60	select a forward magenta color wheel spin speed from slow (WR01) to fast (WR60)
				Color Scan (available with COLC set to SCN or MSCN)	
				K001 - K128	select the speed to scan (oscillate) within the color mixing portion of the magenta color wheel from slow (K001) to fast (K128)
				Blink (available with COLC set to BLK or MBLK)	
				BM 1	select the additional fixed color (CTO) on the magenta color wheel with shutter blink
				BS 6	choose the most saturated position on the magenta color wheel with shutter blink
				BS 5	choose the second most saturated position on the magenta color wheel with shutter blink
				BS 4	choose the third most saturated position on the magenta color wheel with shutter blink
				BS 3	choose the fourth most saturated position on the magenta color wheel with shutter blink
				BS 2	choose the fifth most saturated position on the magenta color wheel with shutter blink
BS 1	choose the least saturated position on the magenta color wheel with shutter blink				

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
PRST (cont.)	EDIT (cont.)	SN01- SN16 (cont.)	YELW	Continuous (available with COLC set to CON or MCON)	
				D000 - D357	select an exact position on yellow color wheel from 0° (D000) to 357° (D357)
				Indexed (available with COLC set to IDX or MIDX)	
				OPEN	select the open "white" position on yellow color wheel
				Y 1	select the additional fixed color (Dark Blue) on yellow color wheel
				S 6	select most saturated position on yellow color wheel
				S 5	select second most saturated position on yellow color wheel
				S 4	select third most saturated position on yellow color wheel
				S 3	select fourth most saturated position on yellow color wheel
				S 2	select fifth most saturated position on yellow color wheel
				S 1	select least saturated position on yellow color wheel
				Pure Mix (available with COLC set to MIX or MMIX)	
				Y000 - Y255	select an exact position within the color mixing section of the yellow color wheel from most saturated (C000) to least saturated (C255)
				Wheel Spin (available with COLC set to WSP or MWSP)	
				D000 - D357	select a fixed position on the yellow color wheel from 0° (D000) to 357° (D357)
				WR60- WR01	select a reverse yellow color wheel spin speed from fast (WR60) to slow (WR01)
				STIL	stop the yellow color wheel from spinning
				WF01 - WF60	select a forward yellow color wheel spin speed from slow (WR01) to fast (WR60)
				Color Scan (available with COLC set to SCN or MSCN)	
				K001 - K128	select the speed to scan (oscillate) within the color mixing portion of the yellow color wheel from slow (K001) to fast (K128)
				Blink (available with COLC set to BLK or MBLK)	
				BY 1	select the additional fixed color (Dark Blue) on the yellow color wheel with shutter blink
				BS 6	choose the most saturated position on the yellow color wheel with shutter blink
				BS 5	choose the second most saturated position on the yellow color wheel with shutter blink
				BS 4	choose the third most saturated position on the yellow color wheel with shutter blink
				BS 3	choose the fourth most saturated position on the yellow color wheel with shutter blink
				BS 2	choose the fifth most saturated position on the yellow color wheel with shutter blink
				BS 1	choose the least saturated position on the yellow color wheel with shutter blink

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Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
PRST (cont.)	EDIT (cont.)	SN01 - SN16 (cont.)	BEAM	D000– D358	select an exact lenticular wheel (beam shaping) position from 0° (D000) to 358° (D358)
				WR60– WR01	select a reverse lenticular wheel (beam shaping) spin speed, from fast (WR60) to slow (WR01)
				STIL	stop the lenticular wheel from spinning
				WF01– WF60	select a forward lenticular wheel (beam shaping) spin speed, from slow (WF01) to fast (WF60)
			ZOOM	Z000– Z255	select a zoom value for a beam angle from 15° (000) to 30° (255)
			FRST	OPEN	open the frost flags
				F001– F127	select the exact positioning of the frost flags from fully opened (F001) to fully closed (F127).
				CLSD	close frost flags
				P 01– P 16	select frost strobe at periodic intervals from slow (P 01) to fast (P 16)
				N 01– N 16	select frost strobe at random intervals from slow (N 01) to fast (N 16)
				RS01– RS16	select frost ramp open slow (RS01) to fast (RS16), snap shut
				SR01– SR16	select frost snap open, ramp shut slow (SR01) to fast (SR16)
				RR01– RR16	select frost ramp open, ramp shut slow (RR01) to fast (RR16)
				NR01– - NR16	select the frequency to randomly ramp open slow (NR01) to fast (NR16), snap shut
				NS01– NS16	select the frequency to snap open, randomly ramp shut slow (NS01) to fast (NS16)
			MSPD	252.7– 0.15	select a motor movement time in decimal seconds, from slow (252.7) to fast (0.15)
				0.15– 252.7	select a motor movement time in decimal seconds, from fast (0.15) to slow (252.7)
			MACR	MCOF	set all macro options off
				P00– P56	pan sweep macro from small to large
				TO	macros off
				T00– T56	tilt sweep from small to large
				CO	macros off
				C00– CC34	clockwise circle macro
				CCO	macros off
				CC00– CC34	counterclockwise circle macro
				MCOF	set all macro options off

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
PRST (cont.)	EDIT (cont.)	SN01 - SN16 (cont.)	XFAD	X 0.1 - X 9.9	select the DIM and FCUS construct's crossfade time in increments of 0.1
				X 10 - X166	select the DIM and FCUS construct's crossfade time in increments of 1
			DLAY	D 0.1 - D 9.9	select the scene delay time in increments of 0.1
				D 10 - D166	select the scene delay time in increments of 1
			TIME	SEC	select seconds as the units of time used for the XFAD and DLAY constructs
				MIN	select minutes as the units of time used for the XFAD and DLAY constructs
			TIME (cont.)	HOUR	select hours as the units of time used for the XFAD and DLAY constructs
	ZERO	OK?	erase any programming of the current scene by voiding all construct values / mark the end of the loop		
	COPY	FROM	FA01 - FA16		select a user A scene to copy from (source scene)
			FB01 - FB16		select a user B scene to copy from (source scene)
		TO	TA01 - TA16		select a user A scene to copy to (destination scene)
			TB01 - TB16		select a user B scene to copy to (destination scene)
	CAPT	SN01 - SN16			select a scene to capture a pre-programmed scene to (from your DMX controller)
	DFLT	OK?			enable the factory-programmed preset scene sequence (self-demo) / erases any preset scenes previously programmed
SEND				send all presets in current user	
SET	FACT	ON		set factory defaults on	
		OFF		set factory defaults off	
	SWAP	ON		set pan/tilt swap on	
		OFF		set pan/tilt swap off	
	T/IN	ON		set tilt invert on	
		OFF		set tilt invert off	
	P/IN	ON		set pan invert on	
		OFF		set pan invert off	
	DSPL	ON		set the LED display on	
		OFF		set the LED display off	
		DIM		dim the LED display	
	D/IN	ON		select inverted LED display orientation	
OFF			select normal LED display orientation		
LMPL	ON		enable lamp hour warning message		
	OFF		disable lamp hour warning message		

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Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description	
SET (cont)	FAST	ON			enable fast pan and tilt movement	
		OFF			enable normal pan and tilt movement	
	DLOS	LONG			shutter will remain open until shutdown if DMX data is lost	
		SHRT			shutter will close one second after DMX data is lost	
	ADIO	ALED	ON		uses central dot of alphanumeric display as audio indicator	
			OFF		audio indicator off	
	ZOOM	GAIN	G001–G010		set a value from G001 (more emphasis on quiet sounds) to G010 (less emphasis on quiet sounds). Factory default is G006	
			ON		DMX zoom channel used to position zoom optics	
		OFF			DMX zoom channel ignored. Zoom optic placed at default position.	
	MODE	USER	A			select user A settings
B					select user B settings	
COPY			PRST	A → B		copy user A presets to user B
				B → A		copy user B presets to user A
SETT			ALL	A → B		copy user A settings to user B
				B → A		copy user B settings to user A
XLD		FLAT	A → B		copy user A presets and settings to user B	
			B → A		copy user B presets and settings to user A	
PROT		STAN			crossload fixture software to all other Studio Beam fixtures on the link	
		FLAT			15-channel flat protocol enabled	
TEST	HOME				home the fixture	
	LAMP	ON			strike the lamp	
		OFF			extinguish the lamp	
	BOOT	ALL			copy the boot sector	
					self test all constructs	
	SELF	PAN			self test pan movement	
		TILT			self test tilt movement	
		CYAN			self test cyan color wheel movement	
		MAGN			self test magenta color wheel movement	
		YELW			self test yellow color wheel movement	
		BEAM			self test beam shaping (lenticular wheel) movement	
		ZOOM			self test lens focus movement	
		FRST			self test frost flag movement	
		SHUT			self test shutter strobe movement	
DIM				self test dim flag movement		
S/UP				place the fixture in setup mode for mechanical homing		
DISP				self test the LED display		

Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description		
TEST (cont.)	ENCD	ON			restore pan and tilt encoder operation		
		OFF			disable pan and tilt encoder operation		
	CODE				Factory use only		
INFO	SENS	SEN1			view whether the magenta and beam shaping wheel sensor is obstructed ("ON") or is not obstructed ("OFF")		
		SEN2			view whether the cyan and yellow wheel sensor is obstructed ("ON") or is not obstructed ("OFF")		
		TILT			view whether the tilt sensor is obstructed ("ON") or is not obstructed ("OFF")		
		PAN			view whether the pan sensor is obstructed ("ON") or is not obstructed ("OFF")		
		TPOS			view the tilt position encoder status		
		PPOS			view the pan position encoder status		
	UNUM				Customer Service use only		
			<i>DMX Values displayed when standard protocol is selected</i>				
		DMX	FIXT	BRKS		view the number of DMX breaks	
				FE		view the number of DMX framing errors	
				OV		view the number of DMX overruns	
				STRT		view the DMX start code value	
				PANH		view the DMX high resolution pan value	
				PANL		view the DMX low resolution pan value	
				TLTH		view the DMX high resolution tilt value	
				TLTL		view the DMX low resolution tilt value	
				COLC		view the DMX color control channel value	
				CYAN		view the DMX cyan color wheel position value	
				MAGN		view the DMX magenta color wheel position value	
				YELW		view the DMX yellow color wheel position value	
				BEAM		view the DMX beam shaping (lenticular wheel) position value	
				ZOOM		view the DMX zoom lens position value	
	FRST				view the DMX frost position value		
	SHUT				view the DMX shutter strobe value		
	DIM		view the DMX shutter dim flag value				
	MSPD		view the DMX MSpeed time value				
	MACR		view the DMX macro value				
	CNTL		view the DMX control channel value				
	DATA	C001 - C512			view the DMX data for the selected DMX channel		

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Menu Level 1	Menu Level 2	Menu Level 3	Menu Level 4	Menu Level 5	Description
INFO (cont.)	DMX (cont.)	DMX Values displayed when flat protocol is selected			
		FIXT (cont.)	BRKS		view the number of DMX breaks
			FE		view the number of DMX framing errors
			OV		view the number of DMX overruns
			STRT		view the DMX start code value
			PANH		view the DMX high resolution pan value
			PANL		view the DMX low resolution pan value
			TLTH		view the DMX high resolution tilt value
			TLTL		view the DMX low resolution tilt value
			DIM		view the DMX shutter dim flag value
			SHUT		view the DMX shutter strobe value
			LMPC		view the DMX lamp control channel
			CYAN		view the DMX cyan color wheel position value
			MAGN		view the DMX magenta color wheel position value
			YELW		view the DMX yellow color wheel position value
			COLC		view the DMX color control channel value
			BEAM		view the DMX beam shaping (lenticular wheel) position value
			ZOOM		view the DMX zoom lens position value
			FRST		view the DMX frost position value
			CNTL		view the DMX control channel value
		DATA	C001 - C512		view the DMX data for the selected DMX channel
	TEMP	PCB			view the current temperature at the logic board (C)
		HEAD			view the current internal head temperature (C)
	F/RS				reset fixture hours to zero (<i>press and hold the <Enter> button for five seconds to change the value</i>)
	F/HR				view current number of fixture hours
	L/RS				reset lamp hours to zero (<i>press and hold the <Enter> button for five seconds to change the value</i>)
	L/ST				view the current number of lamp strikes
L/HR				view the current number of lamp hours	
VER				view the fixture's software version	