

NETO



M-PANEL

User Manual
Please read instructions carefully

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INCLUDED ITEMS

- M-Panel
- PowerCon
- Warranty Information
- User Manual

Please inspect package for missing or damaged items and notify NETO Lighting as soon as possible to receive replacements.

SAFETY INFORMATION

Do not attempt service on unit. Product should only be serviced by qualified techs. Please respect local laws and regulations governing installation.

- Never look directly into light source in order to prevent injury.
- Always disconnect from the main power source before performing any type of service.
- Always use a grounded circuit.
- Fixture housing may be very hot while operating. Do not touch the fixture barehanded during its use.
- Always disconnect from main power source and allow 15 minutes to cool before attempting any type of service.
- Do not plug in when unit is cold. Unit must be at room temperature.
- Product weighs **X amount**. Ensure rigging used is rated to hold such weight.
- Make sure there are no flammable materials near the unit while operating in order to prevent a fire hazard.
- Only supply the unit with rated voltages.
- Do not connect fixture to a dimmer pack.
- If you notice any damages, do not attempt to operate.
- If malfunctioning, disconnect from main power source immediately. Contact NETO Lighting.
- Do not operate if ambient temperature reaches over 40° C.
- Not intended for use outdoors or in moisture.

Contact NETO Lighting for all support and technical questions.

M-PANEL

DESCRIPTION

The NETO Lighting M-Panel is a versatile 5x5 4-in-1 LCD pixel matrix mounted on a yoke with infinite pan and tilt.

- Art-Net input and output for easier cabling
- Fast and responsive motors for precision control that is always on time
- Large screen display for easy control
- -25 15 Watt RGBW LEDS
- Strong, durable design, ideal for transportation

FEATURES

- 5° lens
- RGBW LED 15w
- Effect macros
- Pre-programmed letters and symbols macros
- Network DMX via Art-Net
- 121, 38, 36, 20 Channel
- Infinite pan 16-bit
- Infinite tilt 16-bit

SET UP

1 Power

The M-Panel is equipped with an auto-ranging power factor corrected switch-mode power supply, 100-240 VAC 50/60Hz capable.

Maximum current draw of 3.3A (120V) / 1.7A (230V). Never connect power to a dimmer pack even if it is set to 100%. If unit does not power on disconnect from the main power source and check fuse. Fuse rating must be **XXX**.

2 Data

Data is daisy chained via the XLR 3-pin connectors. DMX512 low impedance data cabling is recommended for optimal signal transmission.

3 Rigging

The fixture comes with a quarter-turn omega bracket for mounting clamps to base. Never mount a fixture in a position that could easily be knocked over and cause harm to anyone or the fixture itself. Only experienced persons should be rigging fixtures overhead. Always use a safety cable to ensure security. Always verify that the safe working load of the structure is greater than the total load of fixtures on said structure.

OPERATION

1 Control Panel

The M-Panel is equipped with a LED and 4 buttons for easy setup. From here you can select run modes, manual control, setup, advanced settings, & system info.

The menu breaks down like this:

Mode	Sub Menu	Option	Description
Run Mode	DMX	0-512	Addressing for control via DMX512
		121CH	Full pixel control
		38CH	Pixel dimmer control
		26CH	Group control
		20CH	Macro control
	Auto XY	Auto01-Auto10	Automatic movement sequence
	Auto LED	LED 01-LED 10	Automatic color sequence
	LED SP	SP 01-SP 10	Adjusts color change speed
	Sound	So01-So10	Adjusts sensitivity of sound mode
	Manual	Red	Red intensity (0-255)
		Green	Green intensity (0-255)
		Blue	Blue intensity (0-255)
		White	White intensity (0-255)

Mode	Sub Menu	Option	Description
Setup	ProtocolMode	DMX	Set signal source to XLR
		Art-Net	Set signal source to ethernet
	NetworkSettings	IP Mode	Select between Auto, Manual, or DHCP
		Universe	Set Universe offset (000-255)
		Net	Set IP address for Art-Net
	Pan Reverse	Subnet	Set subnet for Art-Net
		On	Changes Pan orientation
	Off		
	Tilt Reverse	On	Changes Tilt orientation
		Off	
	Display	On	Display always on
		Off	Display will shut off
	Screen Rev	On	Changes screen orientation
		Off	
	LED Current	Red	Color offset calibration (10-255)
		Green	
		Blue	
		White	
	Motor Zero	Pan	Pan offset calibration (0-255)
		Tilt	Tilt offset calibration (0-255)
Reset		Reset fixture	
Factory Set		Restores fixture to default settings	
Sys Info	Ver		Displays firmware version
	DMX Address		Displays current DMX address

2 DMX Personalities

Users have a selection of 4 channel modes: 121, 38, 36, & 20 CH.
View the parameters map below.

20ch	26ch	121ch	Function	Value	Description
Ch 1	Ch 1	Ch 1	Pan	0-255	0-540°
Ch 2	Ch 2	Ch 2	Pan Fine	0-255	Pan Fine
Ch 3	Ch 3	Ch 3	Tilt	0-255	0-270°
Ch 4	Ch 4	Ch 4	Tilt Fine	0-255	Tilt Fine
Ch 5	Ch 5	Ch 5	Pan / Tilt Speed	0-255	Fast to slow
Ch 6	Ch 6	Ch 6	Pan Spin	0-35	No function
				36-162	Continuous Rotation CW
				163-255	Continuous Rotation CCW
Ch 7	Ch 7	Ch 7	Tilt Spin	0-35	No function
				36-162	Continuous Rotation CW
				163-255	Continuous Rotation CCW
Ch 8	Ch 8	Ch 8	Built-in Program (image)	0-47	No function
				48-63	Single control
				64-79	LED Chase
				80-95	LED Run
				96-111	LED Jump
				112-127	LED Edacity
				128-143	LED Grouping
				144-159	Sequence 1
				160-175	Sequence 2
				176-191	Sequence 3
				192-207	Sequence 4
				208-223	Sequence 5
				224-239	Sound Mode
240-245	Sound Mode with movement				
246-255	Auto Change sequence				

20ch	26ch	121ch	Function	Value	Description
Ch 9	Ch 9	Ch 9	Built-in Program Speed	0-255	Slow to fast
Ch 10	Ch 10	Ch 10	Built-in Program Color Macro 1	0-10	No function
				11-20	RGBW @ Full
				21-30	Red
				31-40	Green
				41-50	Blue
				51-60	White
				61-70	Cyan
				71-80	Magenta
				81-90	Yellow
				91-100	Yellow-Green
				101-110	Light Blue
				111-120	Midnight Blue
				121-130	Purple
				131-140	Light Purple
				141-150	Pink
				151-160	Light Red
				161-170	Orange
				171-180	No Color / Black
				181-255	RGBW Color chase (slow to fast)
Ch 11	Ch 11	Ch 11	Built-in Program Color Macro 2	0-10	No function
				11-20	RGBW @ Full
				21-30	Red
				31-40	Green
				41-50	Blue
				51-60	White
				61-70	Cyan
				71-80	Magenta

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20ch	26ch	121ch	Function	Value	Description
				81-90	Yellow
				91-100	Yellow-Green
				101-110	Light Blue
				111-120	Midnight Blue
				121-130	Purple
				131-140	Light Purple
				141-150	Pink
				151-160	Light Red
				161-170	Orange
				171-180	No Color / Black
				181-255	RGBW Color chase (slow to fast)
Ch 12	Ch 12	Ch 12	Built-in Program (Numbers & Symbols)	0-6	No function
				7-13	0
				14-20	1
				21-27	2
				28-34	3
				35-41	4
				42-48	5
				49-55	6
				56-62	7
				63-69	8
				70-76	9
				77-83	+
				84-90	-
				91-97	x
				98-104	÷
				105-111	/
				112-118	<
				119-125	>

20ch	26ch	121ch	Function	Value	Description
				126-132	?
				133-139	!
				140-146	*
				147-153	Ó
				154-160	#
				161-167	Á
				168-174	Ç
				175-181	i
				182-188	Ü
				189-195	Ş
				196-202	Ö
				203-209	Ğ
				210-216	(
				217-223)
				224-255	Scroll
Ch 13	Ch 13	Ch 13	Built-in Program (Letters)	0-8	No function
				9-17	A
				18-26	B
				27-35	C
				36-44	D
				45-53	E
				54-62	F
				63-71	G
				72-80	H
				81-89	I
				90-98	J
				99-107	K
				108-116	L
				117-125	M
				126-134	N

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20ch	26ch	121ch	Function	Value	Description
				135-143	O
				144-152	P
				153-161	Q
				162-170	R
				171-179	S
				180-188	T
				189-197	U
				198-206	V
				207-215	W
				216-224	X
				225-233	Y
				234-242	Z
				243-255	Scroll
Ch 14	Ch 14	Ch 14	Built-in Program Rotation	0-31	Head Up
				32-63	Head Right
				64-95	Head Down
				96-127	Head Left
				128-191	Continuous Rotation CW (slow to fast)
				192-255	Continuous Rotation CCW (slow to fast)
Ch 15	Ch 15	Ch 15	LED Strobe	0-255	Slow to fast & random
Ch 16	Ch 16	Ch 16	RGBW Dimmer	0-255	RGBW Intensity (can control built-in program)
Ch 17	Ch 17	Ch 17	Global Red	0-255	Red intensity (0-100%)
Ch 18	Ch 18	Ch 18	Global Green	0-255	Green intensity (0-100%)
Ch 19	Ch 19	Ch 19	Global Blue	0-255	Blue intensity (0-100%)
Ch 20	Ch 20	Ch 20	Global White	0-255	White intensity (0-100%)
	Ch 21		LED Line 1	0-7	LED 1, 2, 3, 4, & 5 ON
	Ch 22		LED Line 2	8-15	LED 1 ON
	Ch 23		LED Line 3	16-23	LED 2 ON

20ch	26ch	121ch	Function	Value	Description
	Ch 24		LED Line 4	24-31	LED 1 & 2 ON
	Ch 25		LED Line 5	32-39	LED 3 ON
				40-47	LED 1 & 3 ON
				48-55	LED 2 & 3 ON
				56-63	LED 1, 2, & 3 ON
				64-71	LED 4 ON
				72-79	LED 1 & 4 ON
				80-87	LED 2 & 4 ON
				88-95	LED 1, 2, & 4 ON
				96-103	LED 3 & 4 ON
				104-111	LED 1, 3, & 4 ON
				112-119	LED 2, 3, & 4 ON
				120-127	LED 1, 2, 3, & 4 ON
				128-135	LED 5 ON
				136-143	LED 1 & 5 ON
				144-151	LED 2 & 5 ON
				152-159	LED 1, 2, & 5 ON
				160-167	LED 3 & 5 ON
				168-175	LED 1, 3, & 5 ON
				176-183	LED 2, 3, & 5 ON
				184-191	LED 1, 2, 3, & 5 ON
				192-199	LED 4 & 5 ON
				200-207	LED 1, 4, & 5 ON
				208-215	LED 2, 4, & 5 ON
				216-223	LED 1, 2, 4, & 5 ON
				224-231	LED 3, 4, & 5 ON
				232-239	LED 1, 3, 4, & 5 ON
				240-247	LED 2, 3, 4, & 5 ON
				248-255	No function

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20ch	26ch	121ch	Function	Value	Description
		Ch 21	Red Color of pixel	0-255	Red intensity (0-100%)
		Ch 22	Green Color of pixel	0-255	Green intensity (0-100%)
		Ch 23	Blue Color of pixel	0-255	Blue intensity (0-100%)
		Ch 24	White Color of pixel	0-255	White intensity (0-100%)
		Ch 25	Red Color of pixel 2	0-255	Red intensity (0-100%)
		Ch 26	Green Color of pixel 2	0-255	Green intensity (0-100%)
		Ch 27	Blue Color of pixel 2	0-255	Blue intensity (0-100%)
		Ch 28	White Color of pixel 2	0-255	White intensity (0-100%)
		↓	↓	↓	↓
		Ch 117	Red Color of pixel 25	0-255	Red intensity (0-100%)
		Ch 118	Green Color of pixel 25	0-255	Green intensity (0-100%)
		Ch 119	Blue Color of pixel 25	0-255	Blue intensity (0-100%)
		Ch 120	White Color of pixel 25	0-255	White intensity (0-100%)
Ch 26	Ch 121	Reset		250-253	Reset fixture

38ch	Function	Value	Description
Ch 1	Pan	0-255	0-540°
Ch 2	Pan Fine	0-255	Pan Fine
Ch 3	Tilt	0-255	0-270°
Ch 4	Tilt Fine	0-255	Tilt Fine
Ch 5	Pan / Tilt Speed	0-255	Fast to slow
Ch 6	Pan Spin	0-35	No function
		36-162	Continuous Rotation CW
		163-255	Continuous Rotation CCW
Ch 7	Tilt Spin	0-35	No function
		36-162	Continuous Rotation CW
		163-255	Continuous Rotation CCW
Ch 8	LED Strobe	0-255	Slow to fast & random
Ch 9	RGBW Dimmer	0-255	Dark to bright (can control built-in program)
Ch 10	Global Red	0-255	Red intensity (0-100%)
Ch 11	Global Green	0-255	Green intensity (0-100%)
Ch 12	Global Blue	0-255	Blue intensity (0-100%)
Ch 13	Global White	0-255	White intensity (0-100%)
Ch 14	Pixel 1	0-255	Pixel 1 intensity (0-100%)
Ch 15	Pixel 2	0-255	Pixel 2 intensity (0-100%)
Ch 16	Pixel 3	0-255	Pixel 3 intensity (0-100%)
Ch 17	Pixel 4	0-255	Pixel 4 intensity (0-100%)
Ch 18	Pixel 5	0-255	Pixel 5 intensity (0-100%)
Ch 19	Pixel 6	0-255	Pixel 6 intensity (0-100%)
Ch 20	Pixel 7	0-255	Pixel 7 intensity (0-100%)
Ch 21	Pixel 8	0-255	Pixel 8 intensity (0-100%)
Ch 22	Pixel 9	0-255	Pixel 9 intensity (0-100%)
Ch 23	Pixel 10	0-255	Pixel 10 intensity (0-100%)
Ch 24	Pixel 11	0-255	Pixel 11 intensity (0-100%)
Ch 25	Pixel 12	0-255	Pixel 12 intensity (0-100%)

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38ch	Function	Value	Description
Ch 26	Pixel 13	0-255	Pixel 13 intensity (0-100%)
Ch 27	Pixel 14	0-255	Pixel 14 intensity (0-100%)
Ch 28	Pixel 15	0-255	Pixel 15 intensity (0-100%)
Ch 29	Pixel 16	0-256	Pixel 16 intensity (0-100%)
Ch 30	Pixel 17	0-257	Pixel 17 intensity (0-100%)
Ch 31	Pixel 18	0-258	Pixel 18 intensity (0-100%)
Ch 32	Pixel 19	0-259	Pixel 19 intensity (0-100%)
Ch 33	Pixel 20	0-260	Pixel 20 intensity (0-100%)
Ch 34	Pixel 21	0-261	Pixel 21 intensity (0-100%)
Ch 35	Pixel 22	0-262	Pixel 22 intensity (0-100%)
Ch 36	Pixel 23	0-263	Pixel 23 intensity (0-100%)
Ch 37	Pixel 24	0-264	Pixel 24 intensity (0-100%)
Ch 38	Pixel 25	0-265	Pixel 25 intensity (0-100%)

TECHNICAL SPECS

Light Source	Lamp Type	Cree Quad RGBW 15W LED
	LED Qty	25
	LED Lens	3-5°
Thermal	Max. Ambient Temperature	40° C
Electrical	Max. Power Consumption	400W
	Max. Power Consumption Per Color	95W
	Operating Voltage	AC 100-240V, 50/60Hz
	Current Draw	3.3A (120V) / 1.7A (230V)
	Power Supply	Electric auto-ranging power factor corrected switch-mode
Control	Data Type	USITT DMX-512 (1990) or Art-Net
	DMX Channels	121/38/26/20
	Control Modes	DMX/Auto Run/Master Slave
	Pan	540°
	Tilt	270°
Physical	Dimensions	390 x 390 x 485 mm
	Weight	????????????? kgs
	Display	LCD panel
	Data In/Out Socket:	XLR 3-pin
Construction	Housing	UV-resistant fiber-reinforced composite
	Protection Factor	IP 20 (protected against solid objects greater than 12.5mm)
Features	Fast 3-phase pan/tilt motor Individual control of each LED in expanded mode Built-in macros Endless rotation on both pan & tilt Art-Net in & out Multiple unit Power & Data Linking Quarter-turn omega bracket	

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