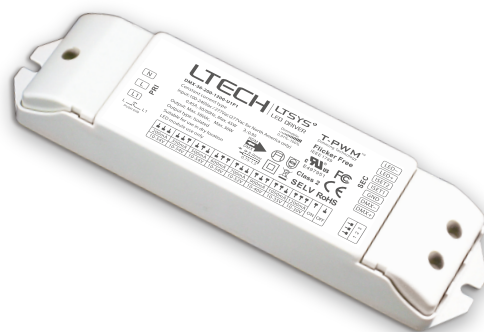


LED Intelligent Driver (constant current)

- Dimming interface: DMX512/RDM, Push Dim.
- T-PWM™ digital dimming.
- Support RDM remote device management protocol.
- Dimming range: 0-100%, LED start at 0.01% possible.
- DIP switch for 8 optional currents' quick selection, ISET arbitrarily current selection.
- 0-100% flicker-free (IEEE 1789 standard).
- Innovative thermal management technology, intelligent power life protection.
- Multi-current & wide voltage, suitable for different power LED.
- Short circuit / Over-heat / Over load / Non-load protection, recover automatically.
- Non-load output voltage 0V to prevent damages to LED caused by poor contact.
- Suitable for internal lights application for I / II / III.
- 5 years warranty (Rubycon capacitor).



T-PWM™
Super depth dimming technology

Flicker-free
IEEE 1789

Dimmable:
0.01-100%



5 years
warranty



RoHS SELV



Class 2





Specification


Model	DMX-15-100-700-U1P1	DMX-25-150-900-U1P1	DMX-36-200-1200-U1P1	
OUTPUT	Output Voltage	10-54Vdc		
	Max Output Voltage	58Vdc		
	Non-load Output Voltage:	0Vdc		
	Output Current	100-700mA	150-900mA	200-1200mA
	Output Power	1W~15W	1.5W~25W	2W~36W
	Strobe Level	No video flicker / High frequency exemption assessment level.		
	Dimming Range	0-100%, 0.01% dimming depth.		
	PWM Dimming Frequency	≤3600Hz		
	Current Accuracy	±5%		
Ripple & Noise	≤2V			
INPUT	Dimming Interface	DMX512/RDM, Push Dim		
	Input Voltage	100-277Vac ±10%, (Max. 90-305Vac)		
	Frequency	50/60Hz		
	Input Current	115Vac≤0.2A, 230Vac≤0.12A, 277Vac≤0.1A	115Vac≤0.3A, 230Vac≤0.2A, 277Vac≤0.15A	115Vac≤0.45A, 230Vac≤0.25A, 277Vac≤0.2A
	Power Factor	PF>0.97/115Vac, PF>0.9/230Vac, PF>0.88/277Vac (full load)	PF>0.97/115Vac, PF>0.93/230Vac, PF>0.85/277Vac (full load)	PF>0.95/115Vac, PF>0.9/230Vac, PF>0.85/277Vac (full load)
	THD	<16%/115Vac, <20%/230Vac, <29%/277Vac, (full load)	<16%/115Vac, <20%/230Vac, <22%/277Vac, (full load)	
	Efficiency(typ.)	82%	85%	88%
	Inrush Current(typ.)	Cold start 8A at 230Vac (twidth=75µs measured at 50% Ipeak)	Cold start 10A at 230Vac (twidth=75µs measured at 50% Ipeak)	Cold start 20A at 230Vac (twidth=75µs measured at 50% Ipeak)
	Anti Surge	L-N: 1kV		
Leakage Current	<0.5mA/230Vac			
ENVIRONMENT	Working Temperature	ta: -30°C ~ 55°C tc: 75°C		
	Working Humidity	20 ~ 95%RH, non-condensing		
	Storage Temp., Humidity	-40°C ~ 80°C, 10-95%RH		
	Temp. Coefficient	±0.03%/°C (0-50°C)		
	Vibration	10-500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.		
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥ 110°C, auto recovers.		
	Over Load Protection	Shut down the output when current load ≥ 102%, auto recovers.		
	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.		
	Non-load Protection:	Shut down the output if no load, auto recovers when load back to normal.		
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac		
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13		
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3		
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547		
	Strobe Test Standard	IEEE 1789		
OTHERS	Dimension	175×44×30mm(L×W×H)		
	Packing	178×48×33mm(L×W×H)		
	Weight(G.W.)	175g±10g		

LED Current Selection

DIP switch for 8 optional currents' quick selection(see the table below).

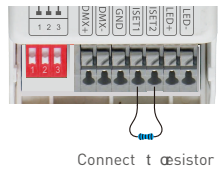
DMX-15-100-700-U1P1	DIP Switch	⬇⬇⬇	⬇⬇⬆	⬇⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	 ON OFF
	Output Current	100mA	180mA	300mA	350mA	450mA	500mA	600mA	700mA	
	Output Voltage	10-54V	10-54V	10-50V	10-43V	10-34V	10-30V	10-25V	10-22V	
	Output Power	1W-5.4W	1.8W-9.72W	3W-15W	3.5W-15.05W	4.5W-15.3W	5W-15W	6W-15W	7W-15.4W	

DMX-25-150-900-U1P1	DIP Switch	⬇⬇⬇	⬇⬇⬆	⬇⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	 ON OFF
	Output Current	150mA	250mA	300mA	350mA	500mA	600mA	700mA	900mA	
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-50V	10-42V	10-36V	10-28V	
	Output Power	1.5W-8.1W	2.5W-13.5W	3W-16.2W	3.5W-18.9W	5W-25W	6W-25.2W	7W-25.2W	9W-25.2W	

DMX-36-200-1200-U1P1	DIP Switch	⬇⬇⬇	⬇⬇⬆	⬇⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	⬆⬆⬇	⬆⬆⬆	 ON OFF
	Output Current	200mA	350mA	500mA	600mA	700mA	900mA	1050mA	1200mA	
	Output Voltage	10-54V	10-54V	10-54V	10-54V	10-52V	10-40V	10-35V	10-30V	
	Output Power	2W-10.8W	3.5W-18.9W	5W-27W	6W-32.4W	7W-36.4W	9W-36W	10.5W-36.75W	12W-36W	

- * Please choose the current value when the driver is power off.
- * E.g. LED 3V/pcs: 10-54V can power 3-18pcs LEDs in series, 10-30V can power 3-10pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.
- * Setting DMX address via RDM function

Advanced options: connect ISET port with resistors of different values to set up currents



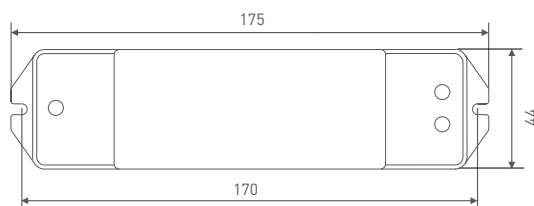
DMX-15-100-700-U1P1	Current (mA)	140mA	180mA	220mA	260mA	300mA	340mA	380mA	420mA	460mA	500mA
	Resistor (KΩ)	33.93 KΩ	27.78KΩ	23.19 KΩ	19.32KΩ	16.34 KΩ	14.05 KΩ	11.96KΩ	10.17 KΩ	8.57KΩ	7.16 KΩ
	Current (mA)	540mA	580mA	620mA	660mA						
	Resistor (KΩ)	5.98 KΩ	4.9 KΩ	3.87 KΩ	3 KΩ						

DMX-25-150-900-U1P1	Current (mA)	200mA	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA
	Resistor (KΩ)	34KΩ	26.93KΩ	22.3KΩ	18.98 KΩ	15.93 KΩ	13.31 KΩ	11.45 KΩ	9.53KΩ	8.23 KΩ	6.72KΩ
	Current (mA)	700mA	750mA	800mA	850mA						
	Resistor (KΩ)	5.62 KΩ	4.58 KΩ	3.64 KΩ	2.81 KΩ						

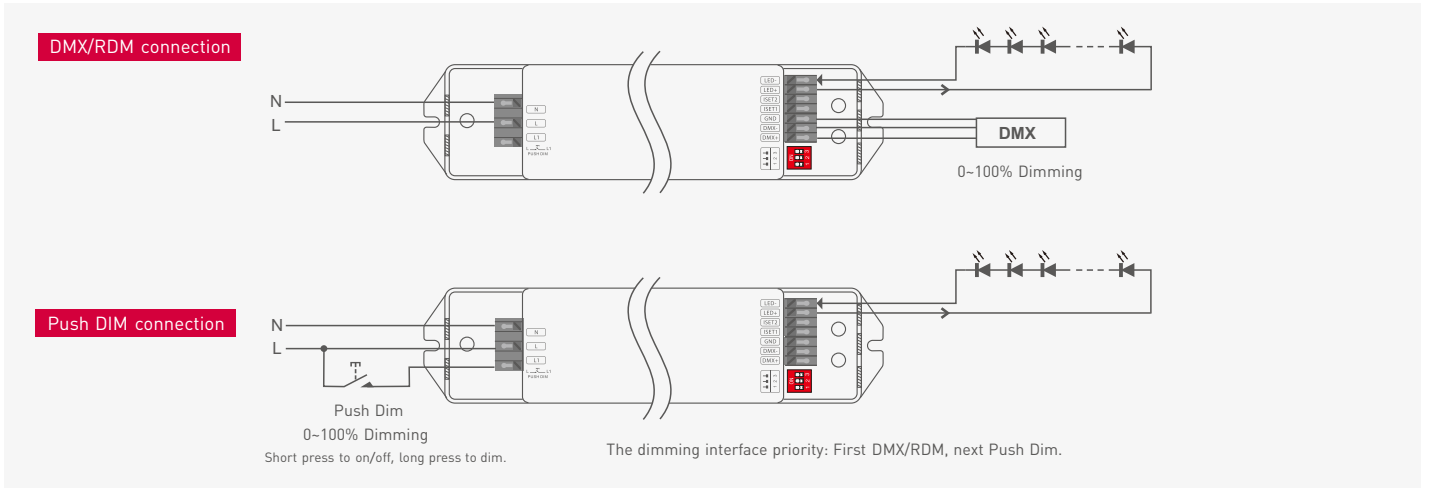
DMX-36-200-1200-U1P1	Current (mA)	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA
	Resistor (KΩ)	41.6KΩ	34.7 KΩ	29.52KΩ	25.4 KΩ	21.9 KΩ	19 KΩ	16.66 KΩ	14.5KΩ	12.62 KΩ	11.19KΩ
	Current (mA)	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	1100mA	1150mA	
	Resistor (KΩ)	9.8 KΩ	8.57 KΩ	7.43 KΩ	6.42 KΩ	5.47 KΩ	4.65 KΩ	3.93 KΩ	3.2 KΩ	2.57 KΩ	

Dimensions

Unit: mm



Wiring Diagram



Push Dimming

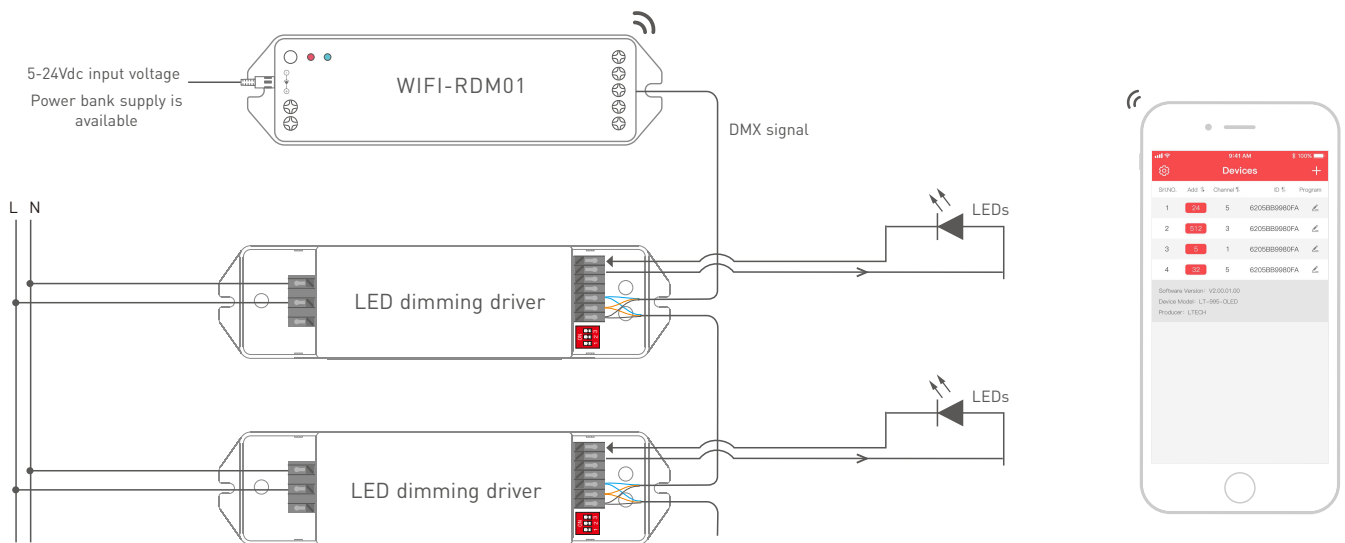


Reset Switch

- On/off control: Short press.
- Stepless dimming: Long press.
- With every other long press, the light level goes to the opposite direction.
- Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

DMX Address Setting

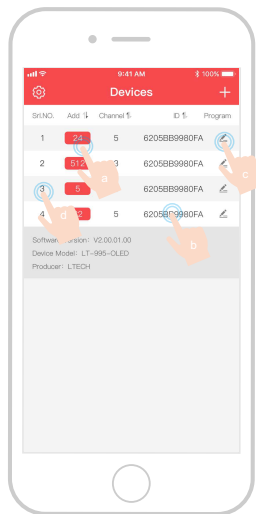
The DMX driver can work with the address editor that complies with standard RDM protocol. It is recommended to use LTECH's RDM editor (model WiFi-RDM01), which can achieve more functions such as remote browsing and parameter setting. Wiring diagram as below:



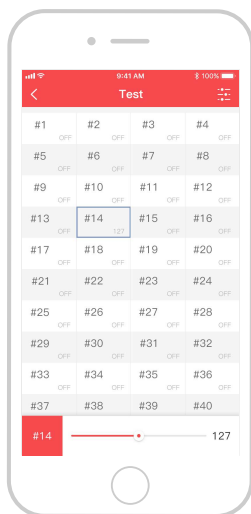
* the defaulted DMX address of the driver is 1.

LTECH RDM editor App interface instruction

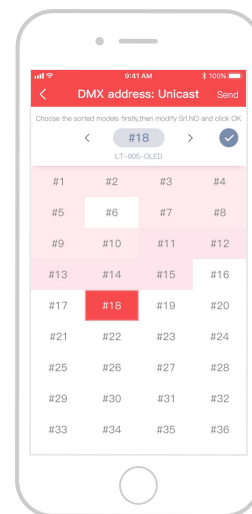
Download the App, setting the parameters after well connecting the RDM editor, please check the manual of WiFi-RDM01 for more details.



- a: Click "Add", edited the address in corresponding box.
- b: Click "ID", get more product details.
- c: Click "✎", enter edited interface
- d: Click "No.", issue the recognizing command.



Test



DMX address setting

* No further notice if any changes in the manual. Product function depends on the goods. Please feel free to contact your supplier if any question.