



[WWW.PROLIGHT.CO.UK](http://WWW.PROLIGHT.CO.UK)



**SYNCRX PANEL**

(order code: LEDJ70)

**USER MANUAL**

## **WARNING**

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY  
BEFORE YOUR INITIAL START-UP!**



### **CAUTION!**

**Keep this equipment away from rain,  
moisture and liquids.**



### **SAFETY INSTRUCTIONS**

Every person involved with the installation, operation & maintenance of this equipment should:

- Be competent
- Follow the instructions of this manual



**CAUTION! TAKE CARE USING THIS EQUIPMENT!  
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!**



Before your initial start-up, please make sure that there is no damage caused during transportation. Should there be any, consult your dealer and do not use the equipment.

To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.

Please note that damages caused by user modifications to this equipment are not subject to warranty.

**IMPORTANT:**

**The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.**

- Never let the power-cable come into contact with other cables. Handle the power-cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the equipment.
- Do not open the equipment and do not modify the equipment.
- Do not connect this equipment to a dimmer-pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available voltage is between 220v/240v.
- Make sure that the power-cable is never crimped or damaged. Check the equipment and the power-cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately. Have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. **THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.**
- **WARRANTY;** One year from date of purchase.

**OPERATING DETERMINATIONS**

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void.

Incorrect operation may lead to danger e.g.: short-circuit, burns, electric shocks, lamp failure etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and property!

**Operating modes:**

The LEDJ Syncro Panel has 2 modes to choose from:

- **Sound Active Mode** – The unit will react to sound, chasing through the Built-in programs. In this mode, the 2 Panels can only be used as Stand alone units.
- **DMX Control Mode** – This function will allow you to control each fixtures traits with a standard DMX-512 controller such as the Transcension DMX Master.

**Sound Active Mode:**

In this mode the Syncro Panel will react to sound, and chase through the different colors

1. Dipswitch #10 should be placed in the ON position.

**DMX Mode:**

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs.

1. This function will allow you to control each pair of unit's traits with a standard DMX-512 controller such as the Transcension DMX Master.
2. The Syncro Panel uses two DMX channels to operate see table for the DMX Traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your DMX address by using dipswitches 1-9 located on side. Make sure that dipswitch #10 stays in the off position. Follow the set up specifications that come with your DMX controller.
4. **To run more than one pair of Syncro Panels:** Using standard XLR DMX cables, daisy chain your units together via the XLR connectors on the rear of the units. Remember the male XLR connector is the output. The first unit in the daisy chain will use the female connection only. The second or last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture. **All units must be set to the same DMX address.**

**DMX-512:**

- DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

**DMX Linking:**

- DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

**DATA Cable (DMX cable) requirements (for DMX operation):**

- The LEDJ Syncro Panel can be controlled via DMX-512 protocol. The Syncro Panel is a 2-channel unit. The DMX address is set on the back panel of the unit. Your Panel and your DMX controller require a standard 3-pin XLR connector for data input/output (figure 1).



Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight dealers.

Please quote:

CABL10 – 2M

CABL11 – 5M

CABL12 – 10M

**Figure 1**

**Also remember that DMX cable must be daisy chained and cannot be split.**

**Notice:**

- Be sure to follow figures 2 & 3 when making your own cables. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behaviour.

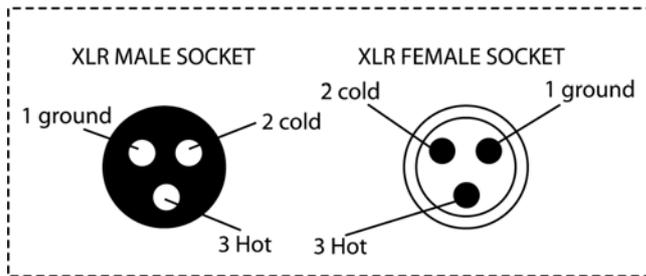
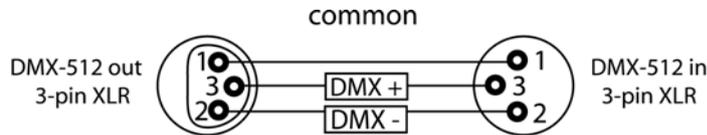


FIGURE 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

FIGURE 2

**Special Note: Line termination:**

- When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior.

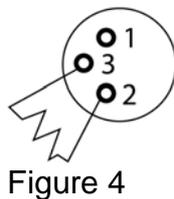


Figure 4

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4W) between Pin 2 (DMX-) and Pin 3 (DMX+) of the last fixture

**Using a cable terminator (part number CABL90) will decrease the possibilities of erratic behavior.**

**5-Pin XLR DMX Connectors:**

- Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-Pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The Chart below details the correct cable conversion.

3- Pin XLR to 5-PIN XLR Conversion		
Conductor	3-Pin XLR out	5-Pin XLR in
Ground shield	Pin 1	Pin 1
Negative (-)	Pin 2	Pin 2
Positive (+)	Pin 3	Pin 3

Channel	Value	Function
<b>1</b>	0-9	Blackout.
	10-19	7(W/R/G/B/C/M/Y) colors horizontal change to full screen.
	20-29	R/G apart changed from each vertical line.
	30-39	B/Y apart from each vertical line.
	40-49	C/M apart from each vertical line.
	50-59	R/W apart from each vertical line.
	60-69	R/G/B/Y apart from each horizontal line.
	70-79	W/B/C/M apart from each horizontal line.
	80-89	7(W/R/G/B/C/M/Y) colors full screen changed by turns.
	90-99	R/G apart from each small square
	100-109	B/Y apart from each small square.
	110-119	C/M apart from each small square.
	120-129	R/W apart from each small square.
	130-139	R/G/B apart from each small square.
	140-149	C/M/Y apart from each small square.
	150-159	7(W/R/G/B/C/M/Y) changed in random variable.
	160-169	7(W/R/G/B/C/M/Y) changed to move in circle.
	170-179	R/G changed like a pinwheel.
180-189	R/G & R/B changed like a pinwheel.	
	190-199	R background, W/G/B/C/M/Y scan changed in turn.
	200-209	R background, G/Y/C/M scan changed in turn.
	210-219	G background, R/B/C/Y scan changed in turn.
	220-229	R/B & G/C apart from each vertical line.
	230-239	R/G & W/B & C/Y changed in diagonal shape.
	240-249	G/M & R/Y & B/M changed in diagonal shape.
	250-255	Above all the variation.
<b>2</b>	0	Stop.
	1-255	Speed adjustment. The greater DMX value, the faster the chase speed will be.

Remark: **W**-white, **R**-red, **G**-green, **B**-blue, **C**-cyan, **M**-magenta, **Y**-yellow.

## Model: LEDJ Syncro Panel

### Specifications:

Working Position:	Any safe working position
Voltage:	240V
Power Draw:	500 MA
Breaker:	1 Amp
Weight;	17.7Kgs
Size:	487mm(L) x 484mm(W) x 242mm(H)
Color:	RGB Color mixing
DMX Channels:	2