

# 12 Channels Intelligent Dimmer Rack

**LT-1205P** 12 channels ,5A per channel



## Main Functions

- 12 dimmed outputs and 5A/ch
- One 5A MCB and one bypass switch for each channel
- Applicable to distributed intelligent lighting control system
- Compatible with LT-NET signal and DMX-512 signal
- One group of 12V DC voltage output for control system
- LED indications for three phase power supply, and one LED for communication indication
- 128 preset scenes
- 128 divided zones
- Fade time: 1~100s
- Super SCR and fast electromagnetic switch reduce probability of SCR burn-out by short-circuit
- Each channel is provided with one professional grade filter(100us) for efficient attenuation of lamp filament noise
- Automatic voltage limiting function keeps voltage output within 230V to extend lamp lifetime
- Applicable for incandescent lamps, tungsten halogen lamps, and transformer-fed low voltage lamps

## Product Characteristics

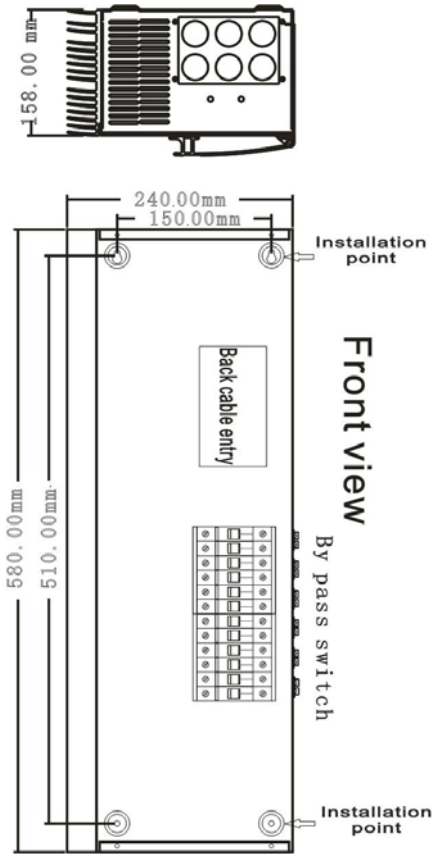
Control Electronics:	full digital, microprocessor controlled;
Ratings:	dimmers rated for continuous duty: 12 x 1 kW; Max. duty of LT-1205P 12 kW;
Operating Environment:	0°C to 40°C; relative humidity max. 90% at 25°C; atmospheric pressure < 106kP.
Power Supply System:	3NPE 400V 50Hz (TN-S system, neutral directly connected to earth); Reduced-size N linear diameter is not allowed; Single-phase operation is possible;
Supply Voltage Range:	230 V±10 %;
Rated Supply Current:	Star system 3-phase 3N with PE supply: 20A per phase at 230V;Single-phase supply: 60A at 230V;
Dimmer protection:	MCB (Max. breaking capacity 6KA);
Control Signal Inputs:	DMX and LT-NET signal can be switched over by internal position selector switch;
DMX Signal:	correct DMX signal is continuous flash;
LT-NET signal:	correct LT-NET signal is red and green alternately;
DC Supply For Panels:	12V/0.2A;
Front Panel Indicators:	power is OK or not for each channel (MCB trip); DMX512 or LT-NET control signal is OK or not (LED indication for communication); Power supply status (LED indication for power supply);
Dimmer Test Functions:	when emergency button is pressed, internal trimmer potentiometer can be applied to dimming within 0 to 100% range for 12 channels;
Bypass Switch:	when the dimmer function module got wrong, take the bypass switch on



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Installation diagram



Response Time: DMX≤30ms;  
 Dimmer Resolution: 256 steps;  
 Power Semiconductors: antiparallel SCR, Min. load per dimmer ≥60W  
 DC Component in output voltage: below 1V in rated load range;  
 Types of load: suitable for incandescent lamps, tungsten halogen lamps, and transformer-led low voltage lamps;

**Electromagnetic Compatibility Standard:** EN55103-1: 1996;  
 EN55103-2:1996;  
**Safety Standard:** EN60439 ,EN60950  
**Ingress Protection:** IP2X

**Protection:**

- Protection for each channel by MCB (breaking capacity 6kA ) to ensure safe operation of system under rated conditions;
- Power supply ingoing line diameter: 25mm<sup>2</sup> for rigid wire, 16mm<sup>2</sup> for stranded wire;
- Load terminal outgoing line diameter: 6mm<sup>2</sup> for rigid wire, 4mm<sup>2</sup> for stranded wire;
- Cables enter from the knockout cable hole at the top of the enclosure, or from the cable entry in the rear plate;
- The terminal of control signal lines enter from the cable hole at the bottom.

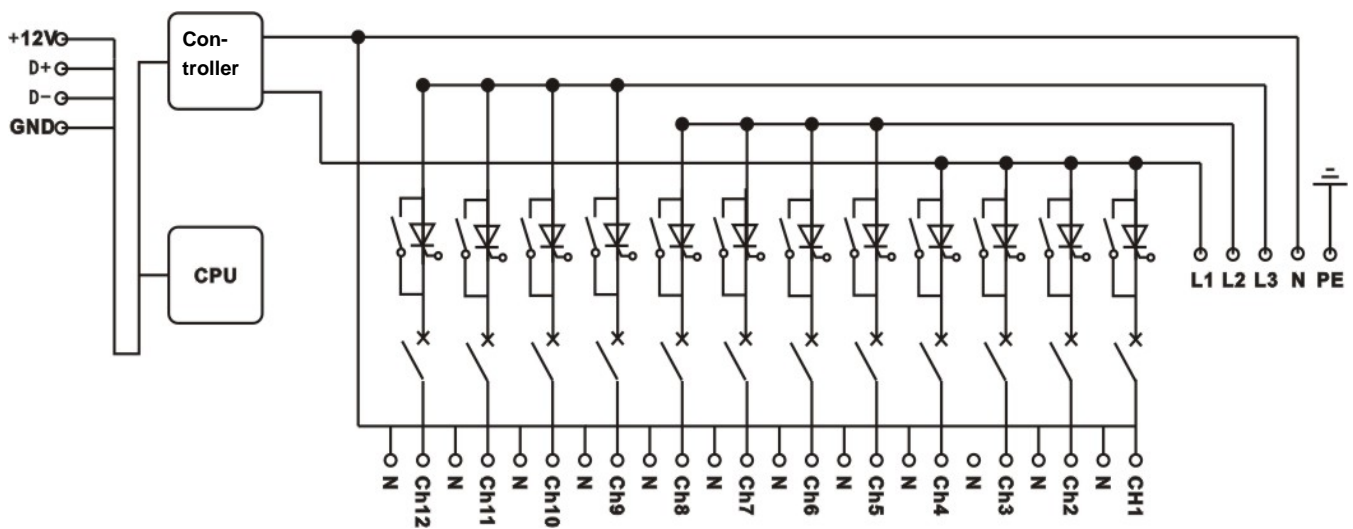
**Communication:**

DMX512/1990 communication protocol;  
 LT-NET interface protocol.

**Cooling:**

Convection cooling via the lateral aluminum heat sink;

Electrical diagram



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