

vitrinemedia

LIGHT&PLAY

POWER SUPPLY AND INSTALLATION

28 NOVEMBER 2024



SUMMARY

1. PRODUCTS
2. POWER SUPLPY
3. WIRING
4. INSTALLATION
5. LIGHT&PLAY / LED MIX

1121922001

Light&Play 21,5”
2000cd/m²

46W / 3.81kg



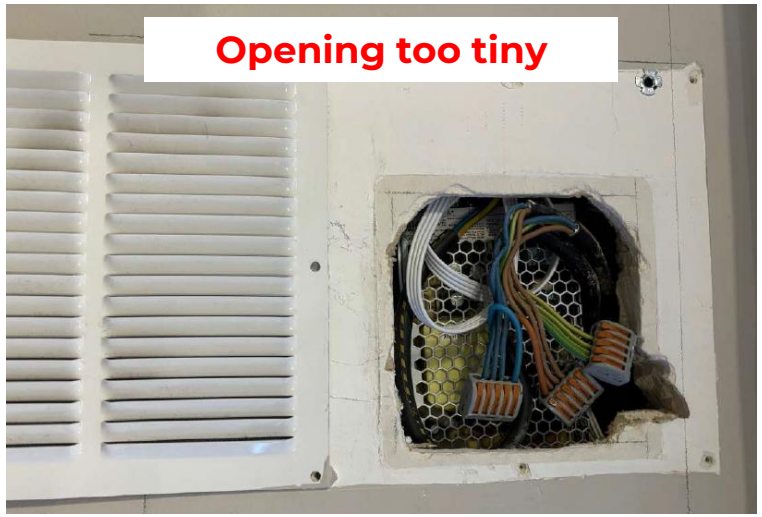
POWER SUPPLY

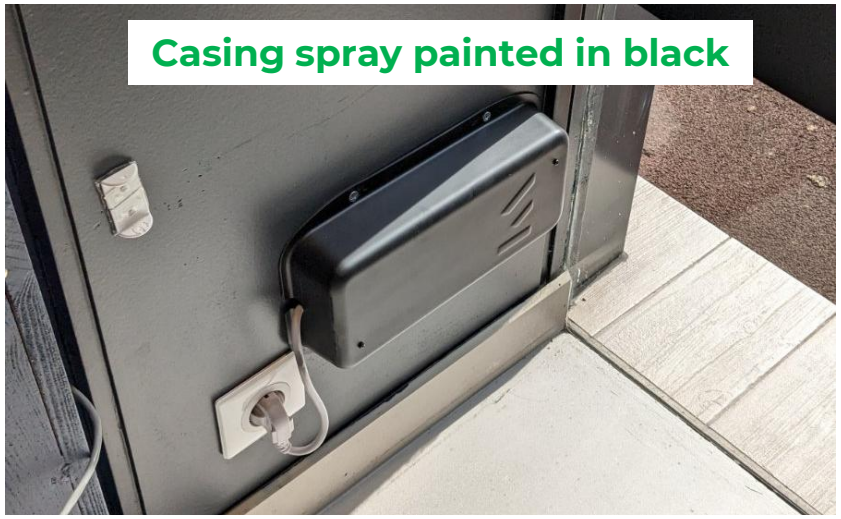
- ▪ RMS power supplies = 80%
  - 320W -> 320x0,80 = 256W in practice
  - 2x320W -> 512W in practice
  - Etc.
- Maximum 2 power supplies per rail
  - The 13 L&Ps limit comes from the rail, not the power supply (see page 10).

Number of Light&Plays	Power supply
1 - 2	150W
3 - 5	320W
6 - 8	500W
9 - 10	2x320W
11 - 13	2x500W

POWER SUPPLY

- It is possible to
  - Hide the power supply into a dividing wall or a false ceiling
  - Remove the casing and keep it exposed
  - Spray paint the casing
- But it is crucial to
  - Keep at least 10cm of space on the sides of the power supply
  - Keep at least 10cm of space on the top of the power supply
    - If it is not possible, it is necessary to add a grill mesh of 20x20cm (heat dissipation).
  - Keep at least 20cm of space between the power supply and the inflammatory materials (isolation, etc.)





POWER SUPPLY

- If possible, avoid any program on the electrical line.
  - Except in case of mix between L&P and lightboxes.

Timer on the electrical board

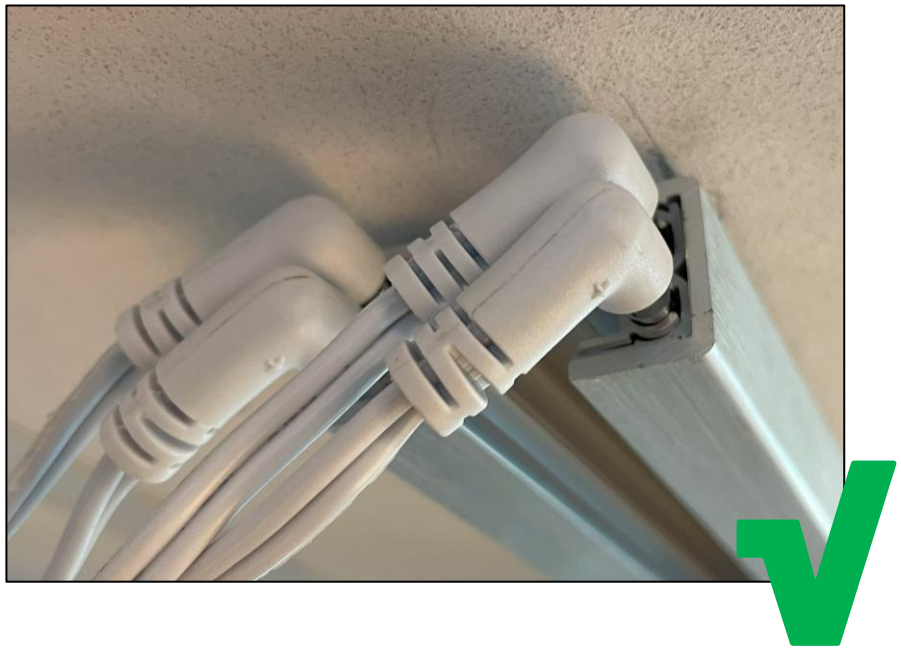


VM Timer



WIRING

- Each power supply must be connected to the rail by its own cable
- Do not shunt power supplies to each other

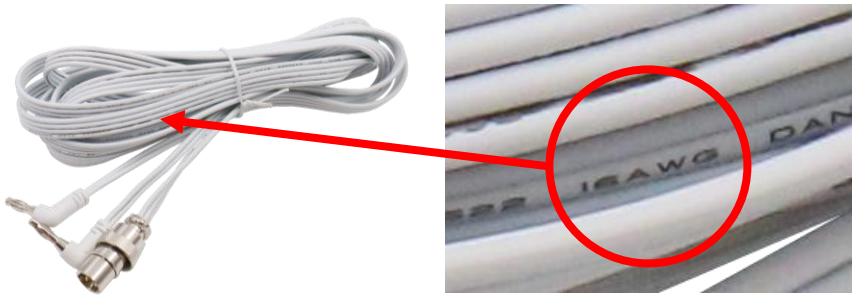






WIRING

- Do not use cable X with power supply Y



Power	Reference	Designation	Section
150W	1032724001	XPR POWER CORD 500CM 150W	2*18AWG (2*0.823 mm2)
320W	#N/A	XPR POWER CORD 500CM 320W	2*16AWG (2*1.310 mm2)
500W	1032724002	XPR POWER CORD 500CM 500W	2*14AWG (2*2.080 mm2)
750W	1032724003	XPR POWER CORD 500CM 750W	2*12AWG (2*3.310 mm2)

150W



320W



500W



WIRING

- Cables can be extended up to 7 meters.
  - In this case, it is preferable to use :
    - The extension cable provided for this purpose, regardless of the wattage of the supply.
      - XPR POWER CORD EXTENSION 200CM 750W (1032824002)
    - Official connection terminals such as Wago (for cables up to 4mm2)





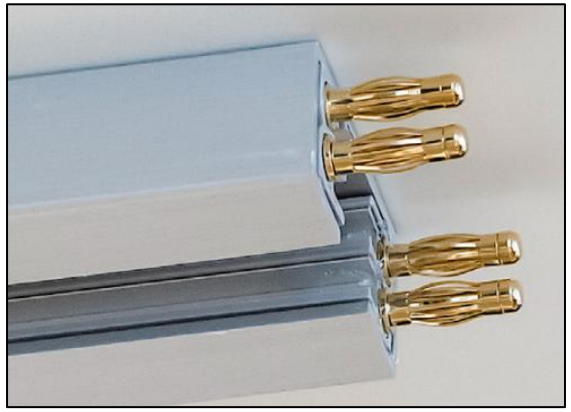

  - Otherwise, use cables with an appropriate cross-section depending on the power supply :

Power supply	Minimum cross-section of extension cable
150W	2g1mm2
320W	2g1.5mm2
500W	2g2.5mm2
750W	2g4mm2

- Beyond 7m, voltage drops and may no longer be sufficient for Light&Play

INSTALLATION

- Maximum 13 Light&Plays on the same rail line
  - No matter how many rails are joined together (1 rail, 2 rails, etc.).
  - Double-sided banana plugs and corner cables also fit 13 Light&Plays



- If XPR FLEX CORNER, then limit goes down to 7 Light&Plays on the added rails



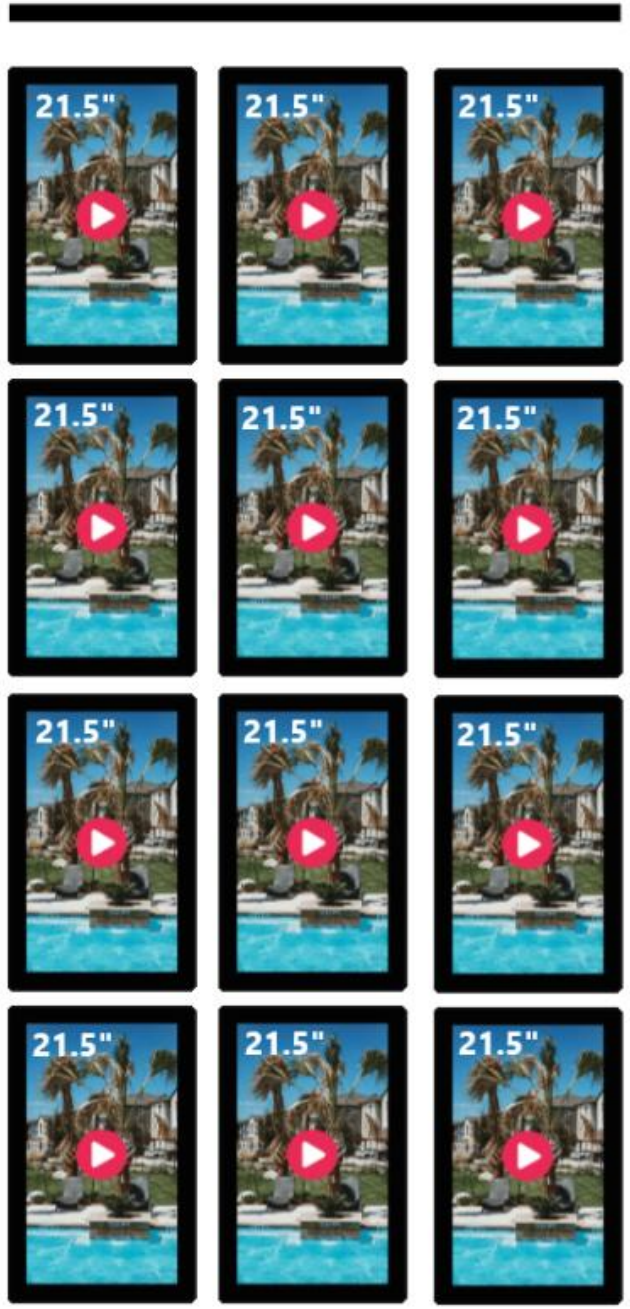
INSTALLATION

- If more than 13 Light&Plays, the rails must be separated



INSTALLATION

- If the ceiling is resistant, and the connection between ceiling and rail is strong, up to 12 L&Ps can be mounted on a single rail.
  - This represents a load of 46kg

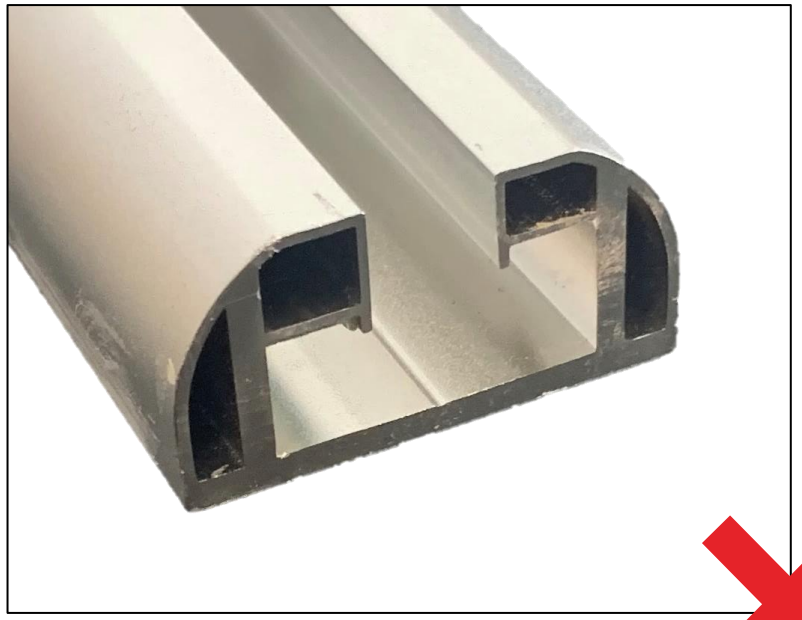


INSTALLATION

- Do not use older VDS rails, only the latest XPR rails



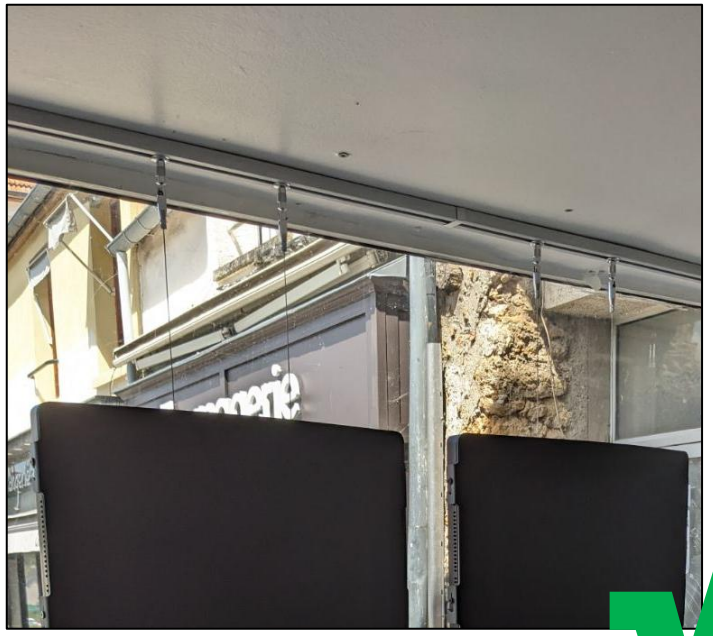
XPR Rail



VDS Rail

INSTALLATION

- L&Ps must be installed between 10cm and 20cm from the window.
  - Less than 10cm, there is a risk of overheating
  - More than 20cm, broadcasted content may not be visible enough
- In certain cases, an exception can be made depending on the installation. Please contact International Team to confirm.



Good distance ✓



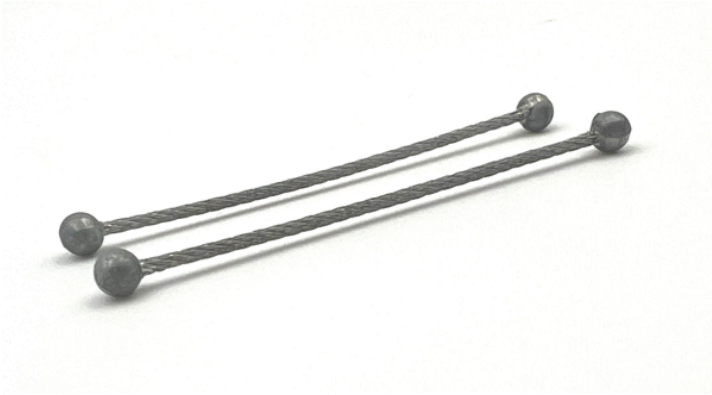
Too close ✗



Too far away ✗

INSTALLATION

- Bi-material cables mandatory for all Light&Plays installations.
  - Bi-material = 1.5mm diameter
  - Supplied in the Light&Play box
    - 300cm single hammer cable between rail and the first Light&Play
    - 5, 6 or 9cm double hammer cable between Light&Play
  - In option,
    - 500cm single hammer cable between rail and first Light&Play
    - 11, 15 or 20cm double hammer cables between Light&Play



Double hammer cable



Single hammer cable

INSTALLATION

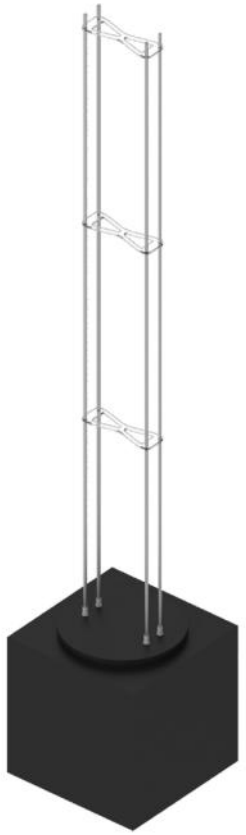
- Maximum 4 Light&Plays on the same column.
- In this case:
  - You need a specific pair of fixations.
    - XPR FIXTURE SET 4 L&Ps (1030924001)
  - ▪ 500cm bi-material cables cannot be used, max. 300cm.



INSTALLATION

- Other fixation system:

VM BOX PREMIUM



Max. **2** L&P per stand

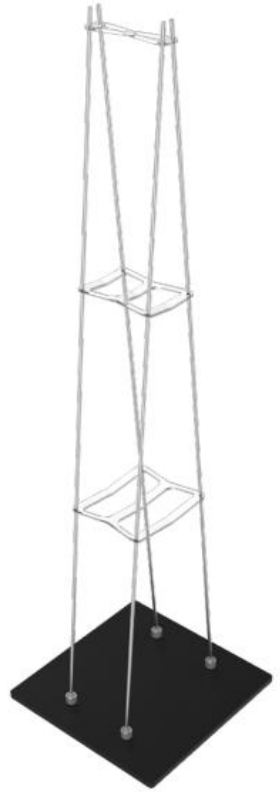
2 L&P can be placed on the same side

VM WALL



Max. **2** L&P per installation

VM MOBILE STAND EASY CLIP



Max. **4** L&P per stand

3 L&P can be placed on the same side

MIX LIGHT&PLAY AND LED PANELS

- Maximum 1 Light&Play under A4/A3 LED Panels
- Maximum 2 Light&Plays under BANNER S/L LED Panels



