



MAXILED PUNCH 302 · DMX RGBW / INTELLIGENT WHITE

MaxiLED PUNCH 302 / DMX RGBW / Intelligent White

The medium-format sibling of the PUNCH 102 — same Ø 60 mm body geometry with **14.4 W** of power (3× the 102 output). Up to **450 lm RGBW** / **750 lm Intelligent White** for high-impact facade illumination at longer throw distances. Same four beam-angle optics, same MaxiLINK backbone.

- IP68
- IK07
- 48 VDC SELV
- DMX 512
- 3× OUTPUT
- 5-YEAR WARRANTY



WATTAGE	LUMENS (IW)	BEAM ANGLES	MAX STRAND	OPERATING TEMP
14.4 W	750 lm	15° · 25° · 40° · 90°	100 m (330 ft)	-40 to +50 °C

SPECIFICATIONS · OVERVIEW · KEY FEATURES

QUICK SPECIFICATIONS

PRODUCT CODE	PUNCH-302
POWER INPUT	48 VDC SELV
WATTAGE PER UNIT	14.4 W
LED CURRENT	200 mA
COLOR SYSTEM	DMX 512 RGBW · Intelligent White
LUMENS (RGBW CLEAR)	450 lm
LUMENS (INTELLIGENT WHITE)	750 lm
BEAM ANGLES	15° · 25° · 40° · 90°
MAX STRAND LENGTH	100 m (330 ft)
IP RATING	IP68
IMPACT PROTECTION	IK07
OPERATING TEMP	-40 to +50 °C
WEIGHT	600 g
WARRANTY	5 years

OVERVIEW

The MaxiPUNCH 302 delivers 3× the output of the 102 in a slightly longer body — same install kit, same MaxiLINK backbone, same beam-angle range. When the throw distance grows (stadium facades, landmark buildings, tower features) the 302 provides the punch without changing the installer's workflow.

KEY FEATURES

- 01

Same platform, 3× the punch
Ø 60 mm body with 14.4 W and up to 750 lm Intelligent White — three times the output of the 102 series for long-throw facade installs.
- 02

Interchangeable beam optics
Same four beam-angle optics as the 102 (15° / 25° / 40° / 90°). Mix 102 and 302 on the same MaxiLINK strand as the design requires.
- 03

Full 3D rotational mounting
Same optional bracket as the 102 delivers full 3D rotational adjustment. Lock with the supplied 5 mm hex key.
- 04

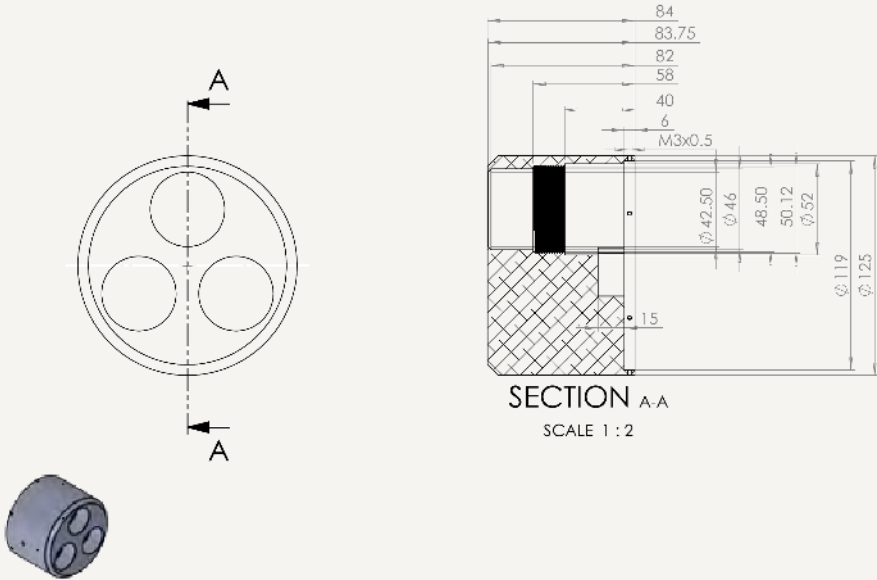
Sealed for permanent outdoor install
IP68 sealed optical chamber, IK07 impact rating and UV-stable optics. multi-chip LED with 90,000 h lumen maintenance at 85%.

DIMENSIONS • PHYSICAL ENVELOPE

Dimensions and physical envelope.

PUNCH-302 • SCALED DRAWING

MM (INCHES) • NTS



BODY Ø	BODY LENGTH	LED APERTURE	WEIGHT
60 mm (2.36")	84 mm (3.31")	Ø 42.5 mm (1.67")	600 g (21.2 oz)

Note. Drawings are not to scale. Confirm mounting cutout and clearance against the physical fixture before finalising fabrication drawings.

ACCESSORIES



Spike



Bracket



Cowl



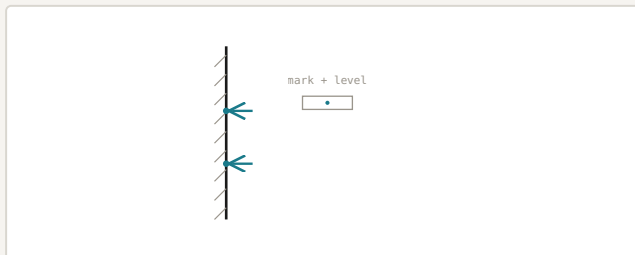
Cowl Angled

CERTIFICATIONS



INSTALLATION • ADJUSTABLE WALL BRACKET

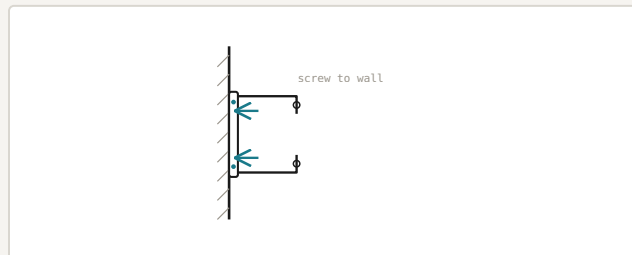
Installation — wall bracket.



01

Mark & check the surface

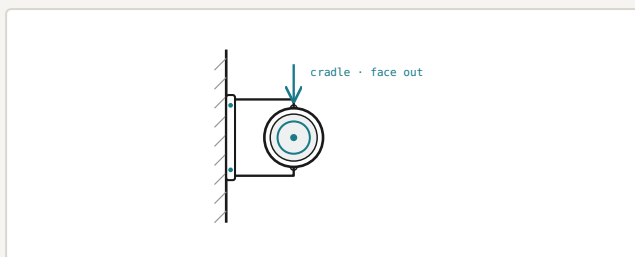
Verify the mounting surface is solid (sound masonry, not crumbling brick or loose timber). Mark the two fixing points and, if needed, the cable-exit point. Use a level so the bracket sits true. Start at the strand end where power enters.



02

Fix the bracket directly

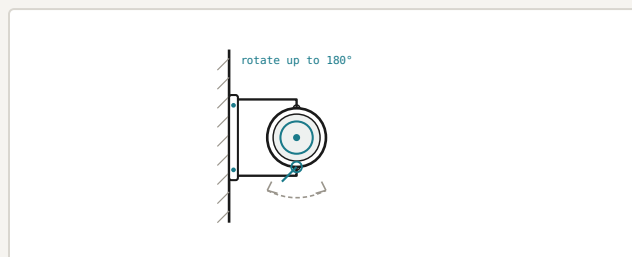
The adjustable wall bracket (AWB) fixes **directly** to the surface through its base plate — drill, insert anchors suited to the material and drive the two screws evenly. Re-check level before final tightening.



03

Cradle the spotlight in the arms

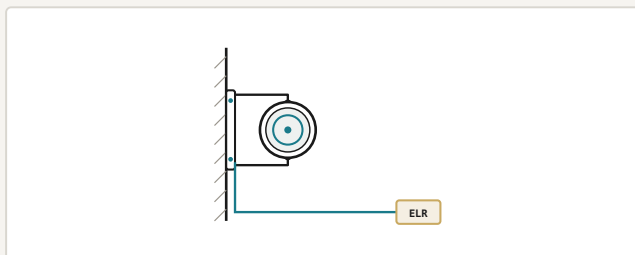
Seat the MaxiPUNCH between the two bracket arms so the pivots engage the arm holes. The lens faces out from the wall.



04

Rotate & lock (up to 180°)

The spotlight **rotates up to 180°** on the pivots. Loosen the pivot knobs with the supplied hex key, aim the beam, then re-tighten to lock. Do not touch the factory-sealed screws (IP68).



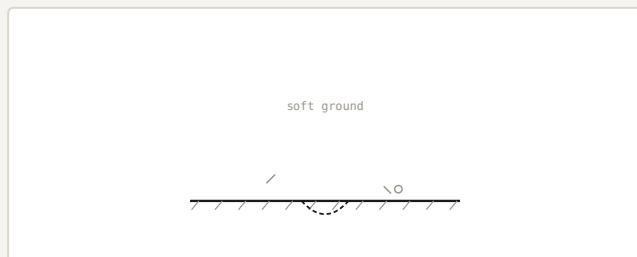
05

Connect & terminate

Route the 2-core MaxiLINK cable (48 VDC + DMX 512), connect input/output with sealed connectors. Fit the **ELR (End-of-Line Resistor)** on the last fixture of the strand. Power up and check DMX.

— INSTALLATION • GROUND SPIKE • GARDENS

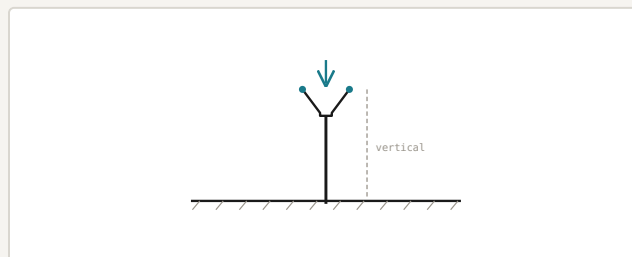
Installation — ground spike.



01

Prepare the ground

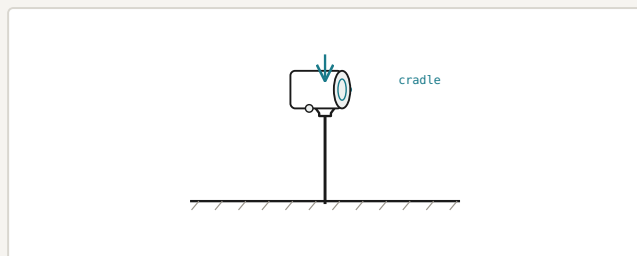
Choose soft ground (soil, gravel, grass). If the soil is hard, moisten or loosen it with a spade and clear stones and debris. For precise placement you can pre-dig a small hole.



02

Drive the spike in — vertical

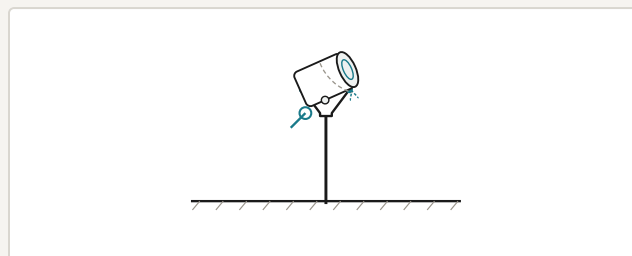
Push the adjustable spike (AS) fully into the ground, keeping it **vertical** (use a level). In loose soil, firm the earth around the base — small stones help stability.



03

Cradle the spotlight in the Y-fork

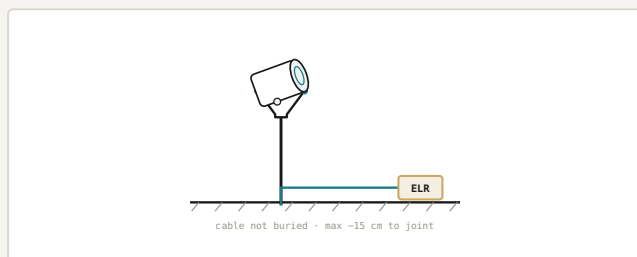
Seat the MaxiPUNCH into the spike's Y-fork so the side pivots rest in the fork. Engage the pivot bolts.



04

Aim & lock the angle

Loosen the side pivot knobs with the supplied hex key, aim the beam (tree, shrub, architectural detail), then re-tighten to lock. Do not touch the factory-sealed screws.



05

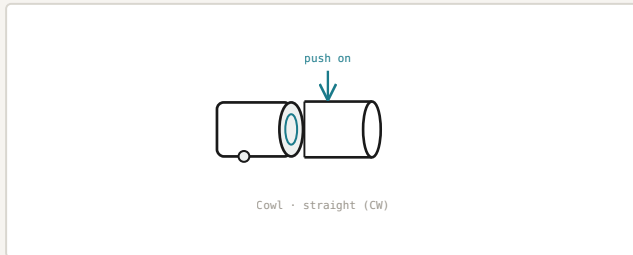
Cable & terminate

Run the 2-core MaxiLINK cable beside the spike or along a structure; **do not bury the cable** except the short run needed to reach the joint (max ~15 cm) using IP-sealed connectors. Fit the **ELR** on the last fixture, power up and check.

Note. Simplified guidance for the two mounting accessories. Installation must be carried out by a qualified electrician per local electrical and construction codes.

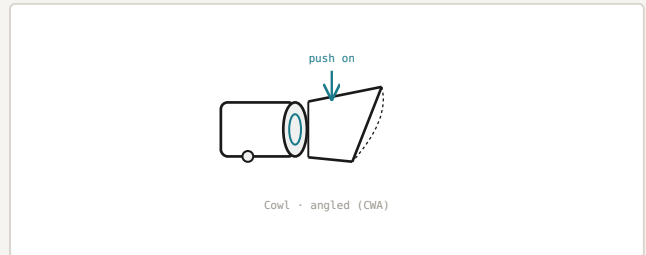
ACCESSORY • COWL (GLARE SHIELD)

Optional cowl.

**C1**

Fit the cowl

The optional **cowl** pushes onto the front bezel to cut spill light and shield glare — useful where the fixture is seen close-up or near sightlines. Compatible with both the wall bracket and the ground spike. Order code **CW**.

**C2**

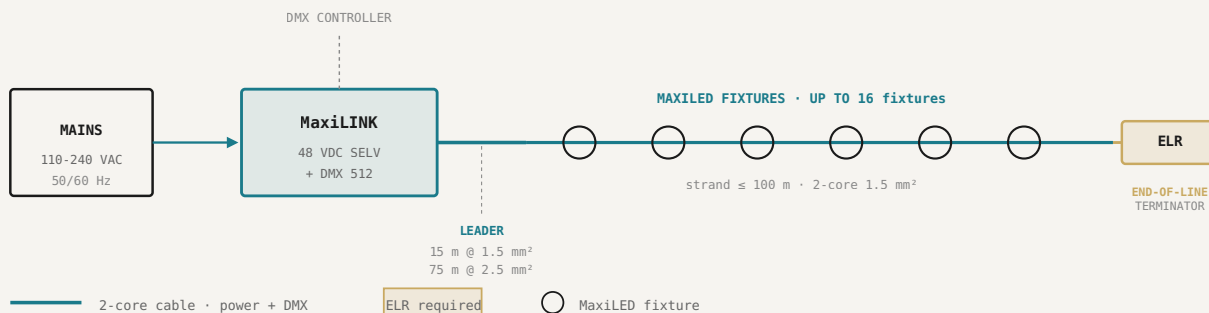
Cowl • angled

The **angled cowl** (order code **CWA**) shields glare from one direction while keeping the beam open on the aiming side — ideal for pathways and seating areas.

WIRING • MAXILINK • STRAND PLANNING

Wiring and strand planning.

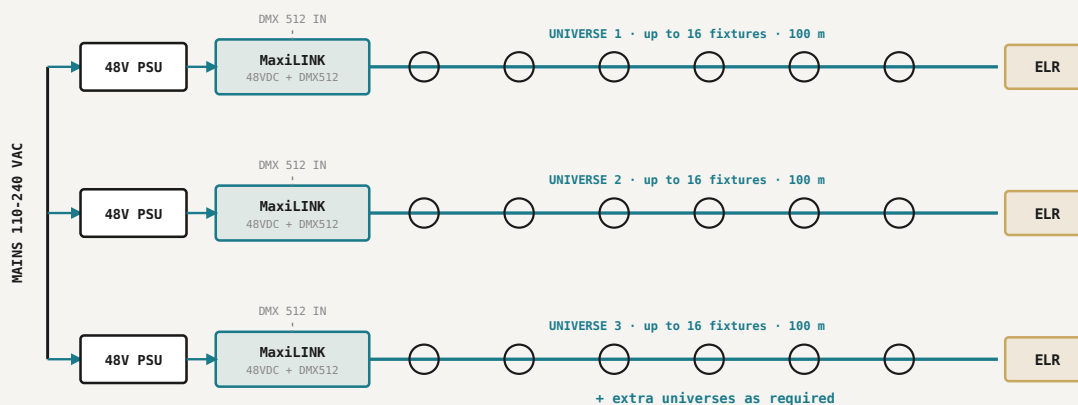
PUNCH-302 • MAXILINK 2-CORE DISTRIBUTION



USA / UL installations: insert Junction Boxes (supplied by others) between MAINS/PSU and MaxiLINK per code – ROW installs may connect direct

MaxiLINK carries 48 VDC + DMX 512 on the same 2-core cable. **Leader:** max 15 m on 1.5 mm² • 75 m on 2.5 mm² from MaxiLINK source to first fixture. **Strand:** at 14.4 W per fixture the 302 caps at **16 fixtures** per PSU on 1.5 mm² cable (max run 100 m first-to-last). **Junction boxes** shown between Controller, PSU 48 V UL Approved and MaxiLINK UL Approved are **required for USA / UL installations** only – ROW installs may connect direct. **ELR (End-of-Line Resistor)** mandatory on the last fixture of every DMX strand.

PUNCH-302 • MULTIPLE DMX UNIVERSES • ONE MAXILINK + PSU EACH



For layouts beyond a single universe (one universe = up to 16 fixtures), add **one MaxiLINK + 48 V PSU** per additional **universe**, each fed from a common mains supply and terminated with its own **ELR** on the last fixture.

ORDER CODES • BUILD THE SKU

Order codes — specify by segment.

PUNCH-302 CONFIGURATOR

LEFT → RIGHT • CONCATENATE WITH HYPHENS

01

PRODUCT

MaxiLED PUNCH
302 **PUNCH-302**

•

02

LED

DMX RGBW
RGBW
Intelligent White
IW

•

03

LENS

15° Spot **15**
25° Narrow **25**
40° Flood **40**
90° Wide **90**

•

04

FINISH

MaxiSEAL Black
MSB
MaxiSEAL Silver
MSS
Black Anodised **B**
Silver Anodised **S**
RAL **RAL**

•

05

ACCESSORY

Spike **SP**
Bracket **BR**
Cowl **CW**
Cowl Angled **CWA**

ORDER-CODE EXAMPLES

- EX 1

PUNCH-302-RGBW-40-MSB-BR

MaxiPUNCH 302 RGBW, 40° flood optic, MaxiSEAL Black, with bracket
- EX 2

PUNCH-302-IW-25-S-CWA

MaxiPUNCH 302 Intelligent White, 25° optic, Silver Anodised, angled cowl

Note. Verify total strand load — 14.4 W per fixture consumes leader capacity faster than the 102. Beam angle is fixed per fixture; specify before order. ELR required on the last fixture of each DMX strand.