

USER & INSTALLATION GUIDE

VYPR 3p GLOBAL

FLUENCE
BY OSRAM



THANK YOU FOR CHOOSING FLUENCE!

Please confirm that all hardware and accessories received are correct for your VYPR application before you begin the installation.

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1. SYSTEM HARDWARE AND ACCESSORIES

1.1 Light fixture and Power Supply

SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY AMERICAS

FAMILY	MODEL	PhysioSpec™ SPECTRUM	INPUT VOLTAGE	PACKAGING
VR VYPR	3P Gen 3 PLUS	BP6 BROAD R6 BP8 BROAD R8 HR9 DUAL R9B High Efficacy DR9 DUAL R9B DR5 DUAL R5B (Antho)	LVG 120-277V AC HVG 347-480V AC	B Bulk Pack S Single Pack

PhysioSpec™ SPECTRUM	SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply	
				PSU2 LVG 600W 120-277V AC	PSU2 HVG 600W 347-480V AC
BROAD R6	VR-3P-BP6	10500	11.7A	71530	71537
BROAD R8	VR-3P-BP8	10499		10506	10509
DUAL R9B High Efficacy	VR-3P-HR9	10532			
DUAL R9B	VR-3P-DR9	10498			
DUAL R5B (Antho)	VR-3P-DR5	10501			

SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY EUROPE

FAMILY	MODEL	PhysioSpec™ SPECTRUM	INPUT VOLTAGE	PACKAGING
VR VYPR	3P Gen 3 PLUS	BP6 BROAD R6 BP8 BROAD R8 HR9 DUAL R9B High Efficacy DR9 DUAL R9B DR5 DUAL R5B (Antho)	LVG 230V AC HVE 400V AC	B Bulk Pack S Single Pack

PhysioSpec™ SPECTRUM	SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply	
				PSU2 LVG 600W 230V AC	PSU2 HVE 600W 400V AC
BROAD R6	VR-3P-BP6	10500	11.7A	71530	71533
BROAD R8	VR-3P-BP8	10499		10506	10507
DUAL R9B High Efficacy	VR-3P-HR9	10532			
DUAL R9B	VR-3P-DR9	10498			
DUAL R5B (Antho)	VR-3P-DR5	10501			

SYSTEM HARDWARE

A VYPR 3p Light Fixture



A

B PSU2 Power Supplies

B1 PSU2 LVG 600W 120-277 V AC

B2 PSU2 HVG 600W 347-480 V AC

B3 PSU2 HVE 600W 347-400 V AC



B1

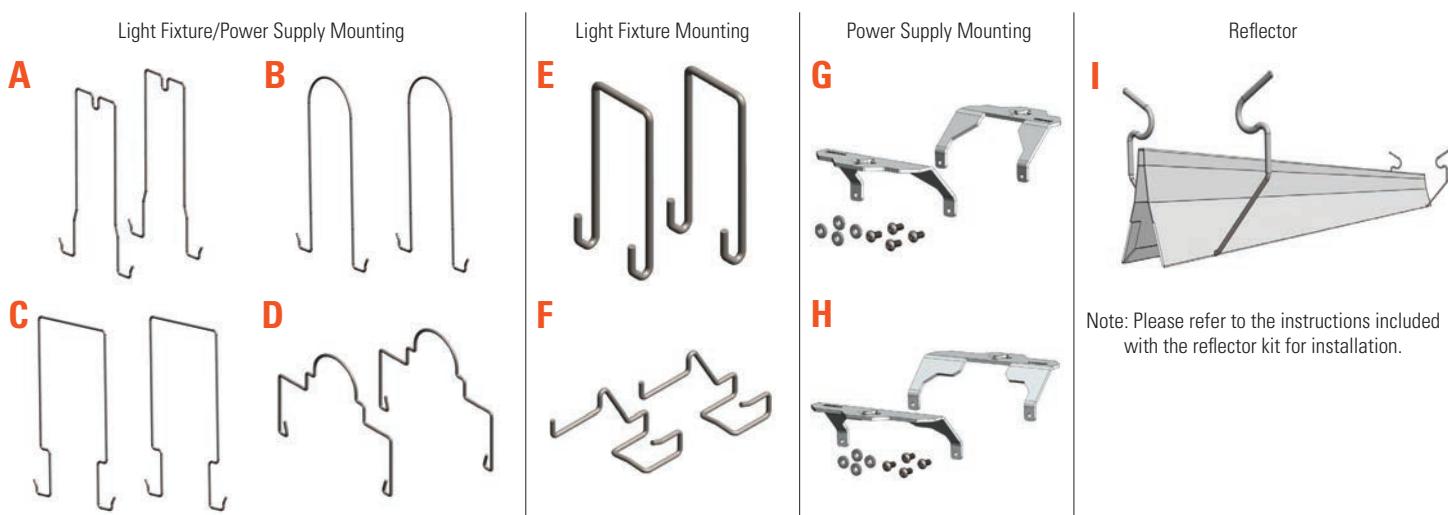
B2

B3

1. SYSTEM HARDWARE AND ACCESSORIES

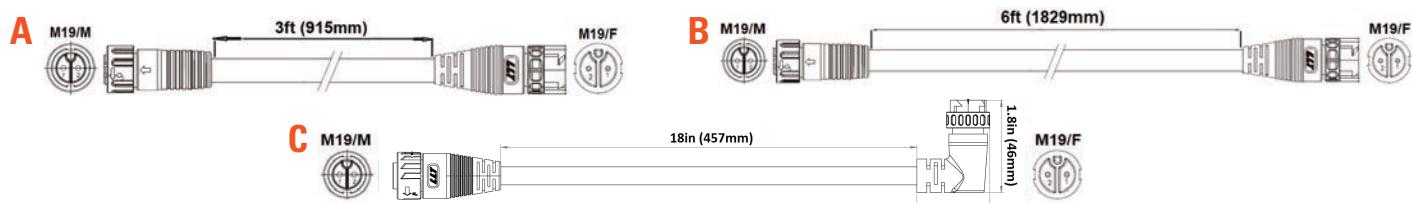
1.2 Mounting Hardware (Sold and Packaged Separately)

MOUNTING HARDWARE	Quantity per Light Fixture	Power Supply PSU2 LVG 600W 120-277V AC	Power Supply PSU2 HVG 600W 347-480V AC	Power Supply PSU2 HVE 600W 347-400V AC	Ordering Code	QTY/ Carton
A Unistrut Wire Hanger (unistrut width ≤ 1.63" / 41mm)	1 Kit	1 Kit	1 Kit	1 Kit	AMV2-10120-20	20 Kits
B Pipe Wire Hanger (Pipe diameter ≤ 1.75" / 44mm)	1 Kit	1 Kit	1 Kit	1 Kit	AMV2-10121-20	20 Kits
C Square Wire Hangers (truss width ≤ 2.75" / 70mm)	1 Kit	1 Kit	1 Kit	1 Kit	AMV2-10119-20	20 Kits
D Combo Mount Wire Hanger	1 Kit	1 Kit	1 Kit	1 Kit	AMV3-10569-20	20 Kits
E Perpendicular Mount Wire Hanger (1"x2" / 25x50mm strut)	1 Kit	N/A	N/A	N/A	AMV3-10572-20	20 Kits
F Parallel Mount bracket (1"x2" / 25x50mm strut)	1 Kit	N/A	N/A	N/A	AMV3-10571-20	20 Kits
G PSU2 LVG 600W and HVE 600W surface mount Kit	N/A	1 Kit	N/A	1 Kit	AMPS-10453-10	10 Kits
H PSU2 HVG 600W surface mount Kit	N/A	N/A	1 Kit	N/A	AMPS-10454-10	10 Kits
I VYPR 3P Reflector Kit 20-inch	2 Kits	N/A	N/A	N/A	ARV3-10529-40	40 Kits
		N/A	N/A	N/A	ARV3-10529-10	10 Kits



1.3 DC Power Cables (Sold and Packaged Separately)

DC POWER CABLES (Fixture to Power Supply) GLOBAL	Quantity per Light Fixture	Ordering Code	QTY/ Carton
A 3-FT DC Extension Cable	1 pc	CDCG-70720-10	10 pcs
B 6-FT DC Extension Cable	1 pc	CDCG-70721-10	10 pcs
C Combo Mount - 18-IN Right Angle DC Extension cable	1 pc	CDCG-71591-10	10 pcs



1.4 DC Dimming Cables (Sold and Packaged Separately)

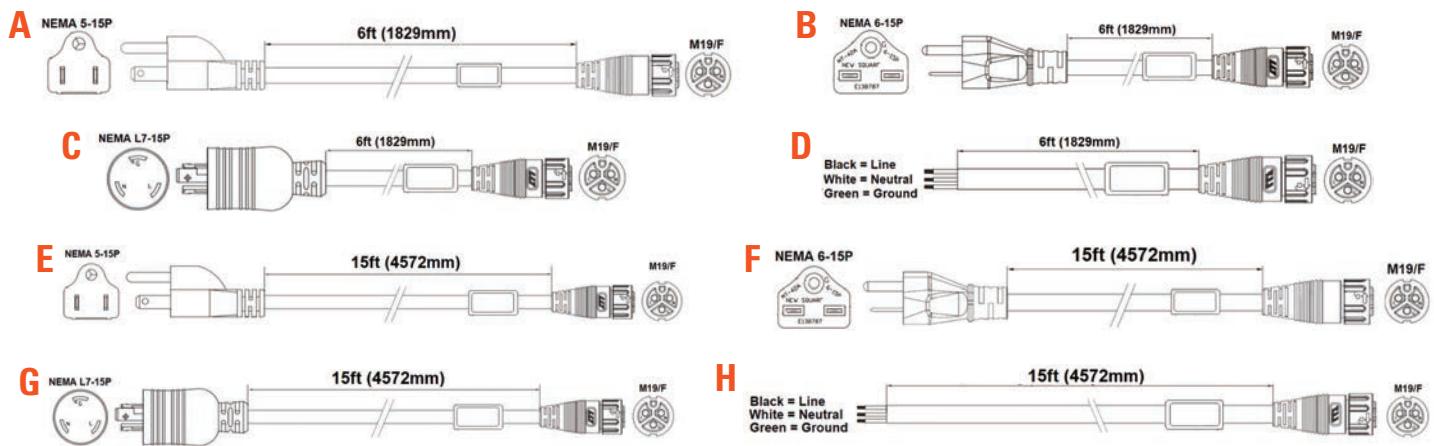
DC DIMMING SIGNAL CABLE (Power Supply to dimmer or dimming control panel)	Quantity per Light Fixture	Ordering Code	QTY/ Carton	Region
A 11 IN (279mm) dimming signal cable, pigtail, M12 connector	1 pc	CDMA-71561-10	10 pcs	Americas
B 80cm (31.5 IN) dimming signal cable, CCA, pigtail, M12 connector	1 pc	CDME-71526-10	10 pcs	Europe



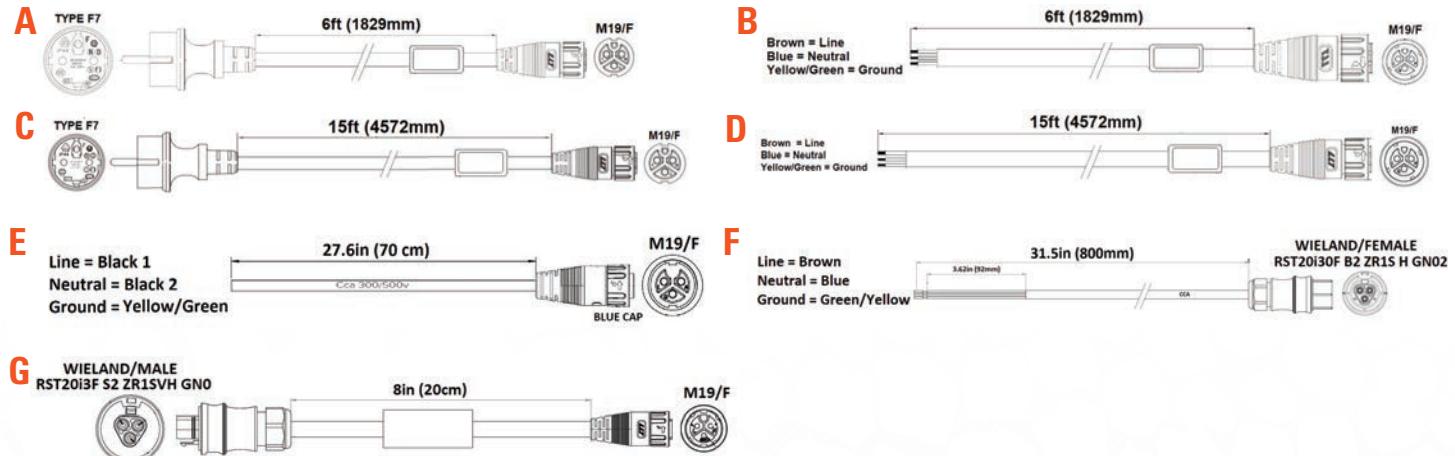
1. SYSTEM HARDWARE AND ACCESSORIES

1.5 AC Power Cables (Sold and Packaged Separately)

AC POWER CABLE (Power Supply to AC Line) AMERICAS		Quantity per Power Supply	Ordering Code	QTY/ Carton
A	6-FT AC Extension Cable, NEMA 5-15P Plug, Max125V AC	1 pc	CACA-70748-10	10 pcs
B	6-FT AC Extension Cable, NEMA 6-15P Plug, Max125V AC	1 pc	CACA-70750-10	10 pcs
C	6-FT AC Extension Cable, NEMA L7-15P Plug, Max 277V AC	1 pc	CACA-70752-10	10 pcs
D	6-FT AC Extension Cable, Pigtail, Max. 480V AC	1 pc	CACA-70754-10	10 pcs
E	15-FT AC Extension Cable, NEMA 5-15P Plug, Max125V AC	1 pc	CACA-70749-05	5 pcs
F	15-FT AC Extension Cable, NEMA 6-15P Plug, Max125V AC	1 pc	CACA-70751-05	5 pcs
G	15-FT AC Extension Cable, NEMA L7-15P Plug, Max 277V AC	1 pc	CACA-70753-05	5 pcs
H	15-FT AC Extension Cable, Pigtail, Max 480V AC	1 pc	CACA-70755-05	5 pcs

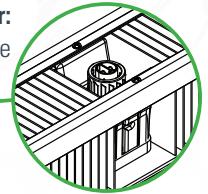
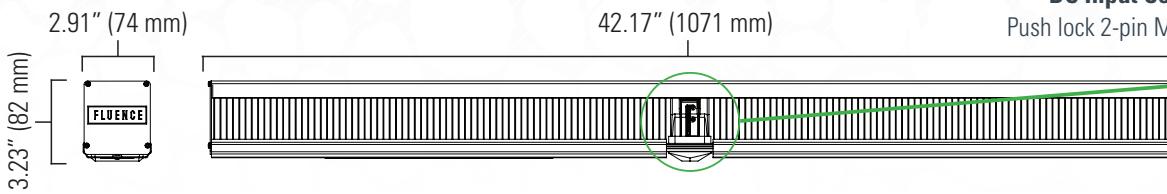


AC POWER CABLE (Power Supply to AC Line) EUROPE		Quantity per Power Supply	Ordering Code	QTY/ Carton
A	1.83m (6 FT) AC Extension Cable, VDE, Schuko Type F7 plug, 230V AC	1 pc	CACE-70774-10	10 pcs
B	1.83m (6 FT) AC Extension Cable, VDE, pigtail (not for CE Countries)	1 pc	CACE-71161-10	10 pcs
C	4.57m (15 FT) AC Extension Cable, VDE, Schuko Type F7 plug, 230V AC	1 pc	CACE-70775-05	5 pcs
D	4.57m (15 FT) AC Extension Cable, VDE, pigtail (not for CE Countries)	1 pc	CACE-71162-05	5 pcs
E	70cm (27.6 IN) AC Extension Cable, CCA, pigtail (230/400V CE application)	1 pc	CACE-71411-10	10 pcs
F	80cm (31.5 IN) AC Extension Cable, CCA, pigtail, (used with adapter cable) Wieland connector Part #: 20i30F B2 ZR1S H GN02 (Female)	1 pc	CACE-71650-10	10 pcs
G	Wieland AC Connector Adapter for Power Supply, CCA cable, 20cm (8 inch) Wieland Part #: RST20i3F S2 ZR1SVH GN0 (Male)	1 pc	CACE-71576-10	10 pcs



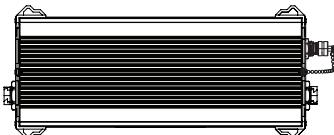
2. DIMENSIONS AND WEIGHT

VYPR 3p



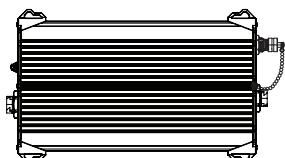
PSU2 LVG

600W-470W
120-277 V AC
P/N 71530, 10506



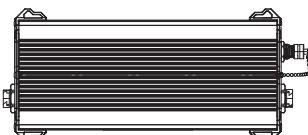
PSU2 HVG

600W-470W
347-480 V AC
P/N 71537, 10509



PSU2 HVE

600W 347-400 V AC
P/N 71533, 10507



Power Supplies

Part Number	DC Current	Type	AC Input	Length	Width	Height	Weight	Region
71530	11.7 A	PSU2 LVG	120-277 V 50/60 Hz	13.43" 341 mm	5.26" 134 mm	2.56" 65 mm	7.1 lbs 3.2 Kg	Global
10506	11.4 A		347-480 V 50/60 Hz	11.5" 292 mm	6.41" 163 mm	2.47" 63 mm	7.5 lbs 3.4 Kg	
71537	11.7 A		347-400 V 50/60 Hz	12.24" 311 mm	5.26" 134 mm	2.56" 65 mm	6.4 lbs 2.9 Kg	Europe
10509	11.4 A	PSU2 HVE	347-400 V 50/60 Hz	12.24" 311 mm	5.26" 134 mm	2.56" 65 mm	6.4 lbs 2.9 Kg	
71533	11.7 A		347-400 V 50/60 Hz	12.24" 311 mm	5.26" 134 mm	2.56" 65 mm	6.4 lbs 2.9 Kg	Europe
10507	11.4 A							

3. CAUTIONS AND WARNINGS

WARNING

Risk of electrical shock.
To reduce the possibility of serious injury, always take the proper precautions and unplug the fixture before moving or cleaning.

CAUTION

LED and heatsink surfaces may be hot. Allow sufficient cooling time before handling.

CAUTION

To reduce the risk of overheating or fire, never place operating fixtures face down on a flush surface. Always allow for adequate ventilation of fixtures and power supplies.

CAUTION

To prevent eye damage, avoid looking directly at the unshielded LEDs. **Practice safety precautions recommended by IEC standard 62471 for Photobiological Risk Group 1.**

CALIFORNIA PROPOSITION 65 WARNING



WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

ADVERTENCIA: Este producto contiene productos químicos reconocidos por el estado de California que provocan cáncer, defectos de nacimiento u otros daños reproductivos.

For more information:
www.P65Warnings.ca.gov



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



ETL Rating: VYPR Series fixtures are rated suitable for wet locations. A "wet location" is defined as an interior or exterior location in which water or other liquids may drip, splash or flow on or against the electrical components of a lighting fixture. VYPR Series fixtures and power supply are certified to meet UL standards (ETL) from the Intertek safety consulting and certification company. Systems are cETL listed and are rated IP66 by IEC standard 60529.

The light source of this luminaire is not replaceable; when the light source reached its end of life the whole luminaire shall be replaced.



Horticulture Lighting, not suitable for household room illumination.



1 PPF calculations compiled using integrating sphere measurements and typical spectroradiometric data for each LED to determine typical fixture performance. Actual photometric results may vary within the LED manufacturer's bin tolerance.

2 Wattage values are typical expected values. Fluence maintains a tolerance of ±10% on flux and power specifications. Target light levels can vary from projected levels depending on ambient temperature, room reflections values and dirt accumulation.

3. CAUTIONS AND WARNINGS

prevádzke nikdy nekladte prednou stranou nadol na rovný povrch. Vždy zabezpečte dostatočnú ventiláciu výrobkov a napájajúcich zdrojov.

OPOZORILO (SI)

Nevarnost elektrického udara. Orogdie pred premikanjem ali čiščeniem vedno pravilne zaščitite in izklopite napajanie, s čimer zmanjšate možnost resnih poškod. Čeprav imata orogdie in napajanje oceno UL 1598 Wet Location, nista namenjeni uporabi pod vodo. Če sta modul ali ohišje napajalnika pod vodo gladino, najprej odstranite prekinjevalnik električnega kroga, nato odklopite potopljene komponente, preden izdelek vzmete iz vode. Ne glejte neposredno v nezakrite LED-luci, s čimer preprečite poškodbe oči. Površina LED-luci in hladilnega telesa je lahko vroča. Pred uporabo puslite, da se ohladi. Deluječe opreme nikoli ne postavite z licem navzdol na ravno površino, da preprečite tveganje pregrevanja ali požara. Vedno poskrbite za primereno prezračevanje opreme in napajalnika.

UPOMIENKA (RS)

Rizik od elektrického udara. Da biste smanjili možnosť ozbiljnejšej povrede, uvek preduzmite odgovarajúce preventívne mere i siskujete opremu pre premeštanie i čiščenie. Oprema i elektrickom napajaniu predviedenu su za rad na vlažnom lokacijskom prema standartu UL 1598, ali nisu projektovani za potapanje vodu. U slúčaju da se kućište modula ili elektrickom napajaniu potopí, prvou odvojite osigurá, a zatím siskujete potopljene komponente pre nego što ih izvadite z vode. Da biste sprecili ostecenie vida, izbegavajte da gledate direktno u nezaštićene LED indikatoru. Površine LED indikatora i hladnjaka mogu biti vrlo. Ostavite dovoljno vremena za hlađenje pre rukovanja. Da biste smanjili rizik od pregrevanja ili požara, radne elemente nikada stavljavajte okrenute licem ka ravnoj površini. Uvek omogućite dovoljnu ventilaciju opreme i elektricnog napajanja.

VARNING (SE)

Risk för elektriskt stötar. För att minska risken för allvarliga personskador ska du alltid vidta lämpliga försäkrighetstågder och koppla ur fikturen innan du flyttar eller rengör den. Fikturen och strömförslöjning är godkänd enligt UL 1598 för användning i våtrum, men de är inte utformade för att nedränska i vatten. Om modulen eller strömförslöjningshjälpet blir nedränska ska du först stänga av kretsbyrån och sedan koppla upp den nedränska komponenterna innan du lyfter upp dem ur vattnet. Titta aldrig direkt på de oskyddade lysdiodeerna eftersom det kan leda till ögonskador. Ytor med lysdioder eller kylflänsar kan vara hetta. Avsätt tillräcklig tid för nedkylning före hantering. Minska risken för överhettning eller brand genom att aldrig placera fikturen i drift med framsidan nedåt på en plan yta. Säkerställ alltid att fikturen och strömförslöjningsenheter har tillräcklig ventilation.

UYARI (TR)

Elektrik çarpması riski. Ciddi yaralarımları önlemek için her zaman gerekli önlemleri alm ve hareket ettirmeden veya temizlemeden önce dizeñenin çıkarın. Kablo ve güç kaynağı ıslak yerlerde kullanılmamıştır. Fikürt ve strömfsörjning çok gerekli UL 1598'ye uygun olmalıdır. Modülün veya güç kaynağının su altında kalması halinde suyu temizlemeden önce olaruk devre kesici çıkarın ve ardından su altında kalan bilesenlerin bağlanması kesin. Göze zarar vermemesi için koruyucusuz LED'lere doğrudan bakmayın. LED ile işlenen yüzeyler sıradan olabilir. Dokunmadan önce yeteri kadar soğumasını bekleyin. Asırı ısınma veya yanmış的风险 için düzeneği düz bir zeminde üst taraf aşağı gelecek şekilde koymayın. Düzeneğin ve güç kaynağının yeteri miktarda havalandırılmasını sağlayın.

УВАГА! (UA)

Небезпека враження електричним струмом. Щоб уникнути можливості серйозно травмуватися, завжди дотримуйтесь належних запобіжних заходів і вимикайте прилад із розетки перед переміщенням або чисткою. Прилад із блоком живлення відповідає вимогам для використання у вологому середовищі, наведеним у стандарті UL 1598, але не розраховані на занурення у воду. Якщо модуль або блок живлення було занурено у воду, перш ніж дістати його, вимкніть автоматичний мікромікмач і від'єднайте виріб від розетки. Щоб уникнути пошкодження зору, не дивіться на відкриті світлодіоди. Світлодіоди і поверхні радіатора можуть бути гарячими. Перш ніж торкатися приладу, зажекайте, доки він охопне. Щоб уникнути перегріву чи покожі, николи не ставте вівімкнений прилад лицьовою стороною вниз на гладку поверхню. Завжди забезпечуйте належну вентиляцію приладів і джерел живлення.

Importer:

OSRAM GmbH

Nonnendammallee 44

13629 Berlin

Germany



D Produkt zur Raumbeleuchtung im Haushalt nicht geeignet GB Product not suitable for domestic household lighting F Produkt inadapte a l'éclairage intérieur une habitation I Prodotto non idoneo a impianti di illuminazione domestici E Producto no adecuado para iluminacion residencial P Produkt no adequaduado para iluminación domestica GR To produkón δεν είναι κατάλληλο για φωτισμό οικιας χρήσης NL Produkt niet geschikt voor huishoudelijke verlichtingsdoeleinden S Produkten er ej lämplig för hushållsbelysning FIN Tuotetta ei voida käyttää kotitalouksien valaistuksen N Produktet er ikke egnet til å lyse opp rom med DK Produktet er ikke egnet husholdningsbelysning CZ Vyrobek není vhodný pro osvětlení domácnosti RUS Продукт не є придаток для бытового освещения помещений KZ Бұл еңім үйдең тұрмыстық жарықтандыру жағымызды A H termék nem alkalmas háztartási világításnak PL Produkt nie jest odpowiedni do oświetlenia domowego SK Produkt nie je vhodný na osvetlenie miestnosti v domácnosti SLO Izdelek ni primeren za osvetlitev bivalnits prostorov TR Urun, ev aydinlatmasi icin uygun degildi HR Proizvod nije prikladan za rasvetu prostorija u kućanstvu RO Produsul nu este adevarat pentru iluminatul locuintei BG Produktul не е подходящ за осветление в куќи и сгради EST Toode ei sobi majapidamisvahustikus LT Prietaisai nesirkitas namų apšvietimui LV Produkts nav piemērots apgaismojumam mājās. SRB Proizvod nije pogodan za rasvetu u domaćinstvu UA Produkt ne podeshodjuje za potbutovog osvjetlenja primijencu



D WEEE-Gerätekennzeichen: Nicht in den Hausmüll werfen! Sachgerechte Entsorgung der Produkte und Verpackung nach geltendem Landesrecht vornehmen. GB WEEE device identification: Do not dispose of in domestic waste! Proper disposal of the product and packaging must be done in accordance with the applicable national law. F Identification WEEE du dispositif : ne pas jeter avec les déchets ménagers ! Le produit et son emballage doivent être éliminés conformément à la législation nationale en vigueur. I Identificazione RAEE del dispositivo: Non smaltire con i rifiuti domestici! Lo smaltimento corretto del prodotto e dell'imballaggio deve essere effettuato secondo la legge nazionale applicabile. E Identificación REEE del dispositivo: No desechar con los residuos domésticos. El desecheo adecuado del producto y el embalaje deberá llevarse a cabo de conformidad con la ley nacional aplicable. P Identificação do dispositivo REEE: Não deite fora no lixo doméstico! A eliminação adequada do produto e da embalagem deve ser feita em conformidade com a legislação nacional aplicável. GR Αναγνώριση συλλογής WEEE: Μην ποτέ πέτε με τα οικιακά απορρίφια! Η σωστή απορρίφιση του προϊόντος και της συσκευασίας πρέπει να γίνεται σύμφωνα με την ισχύουσα εθνική νομοθεσία. NL WEE-apparaatidentificatie: niet weggoen in het huishoudelijke afval! Correcte verwijdering van het product en verpakking dient te gebeuren overeenkomstig de toepasselijke nationale wettelijke voorschriften. S Enhets identifikation för WEEE: Släng inte bland hushållssopor! Produkten och förpackningen måste slängas på ett korrekt sätt i enlighet med gallande nationell lag. EST WEEE-laitetunnus: Ala havita kotitalousjätteen sisu! Tuotteet ja pakkausseen asianmukaisen havittaminen on suoritettu soveltuvin paikallisten lakiain mukaisesti. SWE ENHETTS enhetsidentifikation: Skal ikke kastes i husholdningsavfallet! Riktig avhending av produktet og emballasjen ma gjores i henhold til gjeldende nasjonale lover. DK WEEE enhetsidentifikation: Ma ikke bortskaffes med husholdningsaffald! Korrekt bortskaffelse af produktet og emballagen skal ske i overensstemmelse med g.lidene national law. CZ Označení zařízení podle systému WEEE: Nevyhazovat do domovního odpadu! Správná likvidace výrobku a obalu musí byt provedena v souladu s platnými národními legislativními předpisy. RUS Идентификация устройства в соответствии с Директивей ЕС (WEEE) об отходах электрического и электронного оборудования: Не выбрасывайте продукт вместе с бытовыми отходами! Продукт и упаковку необходимо утилизировать надлежащим образом в соответствии с действующим

национальным законодательством. KZ WEEE құрылғы идентификаторы: үй қоқысымен бірге тастаманы! Бұл еним мен оны қаптамасының тастанылуданында үттеп зәна салдырылғандағы тиесінде. Н WEEE кезеңінде азонастоси: Kommunale hulladekka helyezni tilos! A termék es a csomag megfelelő ártalmatlanítását a hatályos nemzeti szabályozáson szerint kell elvezetni. PL Identyfikacja urządzeń WEEE: Urządzenia zarejestrowane w rejestrze WEEE powinny być zlikwidowane zgodnie z przepisami ochrony środowiska. RO Identyfikacija zariadenia zariadenia WEEE: Nu eliminati produsul in gunoiu menajer! Eliminarea corecta a produsului si ambalajelor sa vor fi in conformitate cu legea nationala aplicabila. BG Идентификация на устройство по WEEE: Да не се изхвърля с битовите отпадъци! Правилното третиране на продукта и опаковката му като отпадъци трябва да става в съответствие с приложимото национално законодателство. EST WEEE-seadme identifitseerimine: Arge visake olmejaatmetesse! Toote ja pakendile kuuluvad korraldavam peab toimuma kooskolas kehtivale sisseriklike oigusaktidega. LT WEEE įrenginio identifikacija: nešalinį kartu su butinimis atliekiomis! Gaminio ir pakuočių žalinimas turi būti atliekamas pagal šalyje galiojančius išstatymus. LV WEEE ierīces identifikācija: neizmest sadzīves atrītumus! Produkta un iepakojums jāizņem atlībīši plānotā likumā. SRB Identifikacija WEEE ureduja: Neemojte da odlaže u otpad u otpad iz domaćinstva! Proizvod i pakovanje morate da odložite u otpad u skladu sa važećim nacionalnim zakonom. UA Идентификация пристрою відповідно до Директиви ЄС (WEEE) що відрізняється від правилами електричного обладнання: Не викидайте продукт разом з іншими домашнім сміттям! Продукт та упаковку слід утилізувати належним чином відповідно до діючого національного законодавства.



D Produkt, bei der der Schutz gegen elektrischen Schlag auf der Anwendung der Schutzkleinspannung (SELV) beruht und in der Spannungen hoher als SELV nicht erzeugt werden. CB The product protects against risk of electric shock with safety extra-low voltage (SELV), not exceeding voltages above SELV. F Le produit protège des risques d'électrocution grâce à la très basse tension de sécurité (TBTS) : il ne présente pas de tension supérieure à la TBTS. II Il produit protège également le risque de choc électrique grâce au système à bassissime tension (SELV) que non supérieure les tensions SELV. E El producto protege contra riesgo de descarga eléctrica con voltaje bajo extra seguro (SELV) que no excede las tensiones superiores a SELV. P O producto protege contra o risco de choque elétrico com a tensão de segurança muito baixa (SELV), não excedendo as tensões acima de SELV. GR To προϊόν προστέφεται από τη ηλεκτροπλήξια λόγω της εξαιρετικά υψηλής τάσης (SELV). Το προϊόν δεν υπερβαίνει τη τάση πάνω από το επίπεδο SELV. NL Dit product beschermt tegen het risico op elektrische schokken met extra lage veiligheidsspanning (SELV); de SELV wordt niet overschreden. S Produkten skyddar mot risken för elektrisk chock med extra låg sakerhetsspanning (SELV) som inte overstiger spanning över SELV. FIN Tuota on suojuittu sahaikoikua vastaan erityisen alihaisen suojaannitteen (SELV) ansiosta, jannitteet eivät ylitä SELV-jannitetta. N Produktet beskytter mot risken for elektrisk stot med ekstrapolerat lavspennning (SELV), som ikke overstiger spenninger over SELV. DK Produktet beskytter mod risiko for elektrisk stod med sikkerheds - ekstra-lavsp.n.ding (SELV, safety extra-low voltage), der ikke overstiger sp.n.dinger over SELV. CZ Vyrobek chrani před uzarem elektrickým proudem vzhledem k extra-nízkemu napětí (SELV), nevykystuje se zde napětí nad SELV. RUS Продукт предотвращает риск поражения электрическим током благодаря работе при безопасном сверхнизком напряжении (БСНН). Напряжение не превышает БСНН. KZ Бұл еңім қауіпсіз етте темегін көрнекі (SELV) мәлшерінен жағары көрнекінен аспайтын жағынан етте темегін көрнекіндегі арқасында электр тогына тусынан көрнегінен. H A termék biztosítási tereptől feszültség (SELV) alkalmazásaval vez ad az elektromos aramates vezélyezelivel szemben, a SELV ertékkel nem haladja meg a feszültséget. PL Produkt chroni przed porażeniem prądem elektrycznym dzięki obwodowi bardzo niskiego natężenia (SELV), nie przekraczającemu natężenia powyżej SELV. SK Produkt chraní pred zásahnutím elektrickým prúdom použitím ochranného nízkeho napäcia (SELV), nedosahuje sa napätie prekračujúce SELV. SLO Izdelek varje prede električnim udarom, zaradi varnostne male napetosti (SELV) in presega napetost, višjih od SELV. TR Urun, SELV üzerindeki voltajları cıkmaya, güvenilir çok düşük gerilimle (SELV) elektrik şoku riskine karşı korur. HR Proizvod pruža zaštitu od električnog udara primjenom sigurnosnog malog napona (SELV). Ne generiraju se naponi koji premašuju SELV. RO Produsul protejează împotriva riscului de electrocutare cu tensiune de siguranță foarte joasă (SELV), fără să depășească tensiunile mai mari decât SELV. BG Продуктът осигурява защита от електрически удар с безопасно свръхниско напрежение (SELV), което не се повишава до стойности над SELV. EST Toode kaitseb elektriloodi olla eest maandamata kaitsevalkepinge sistemeiga (SELV), mis ei ulata SELV-i korgemaid pingide. LT Prietaisan aspauguoje nuo elektros smūgio pavaujas, jei žemai saugi įtampos (SELV) neviršija įtampos. LV Produkts pasargā no elektrošoka riska, jo tam ir izteikti zema strāva (SELV), kas nepārnesd strāvas īmeni visi SELV. SRB Proizvod štiti od rizika od električnog udara putem usizetno niskog bezbednog napona (SELV), koji ne prekraćuje napone iznad SELV. UA Продукт запобігає ризику ураження електричним струмом завдяки роботі при безпечної надійності напроти (БНН). Напруга не перевищує БНН.



D CE-Kennzeichen: Hiermit erklärt OSRAM, dass dieses Produkt den grundlegenden Anforderungen und den relevanten Vorschriften der europäischen Richtlinien entspricht. GB CE marking: OSRAM declares that this product conforms with the basic requirements and relevant provisions of the European guidelines. F Marquage CE: OSRAM déclare que ce produit répond aux exigences de base et aux dispositions applicables des directives européennes. I Marchio CE: OSRAM dichiara che questo prodotto è conforme ai requisiti di base e ai provvedimenti pertinenti secondo le guide europee. E Marca CE: OSRAM declara que este producto cumple con los requisitos básicos y las disposiciones relevantes de las directrices europeas. P Marca CE: A OSRAM declara que este producto esta em conformidade com os requisitos básicos e as disposições relevantes das diretrizes europeias. GR Σήμανση CE: Η OSRAM δηλώνει ότι το προϊόν αυτό συμφωνεύει με τις βασικές απαραίτησης και τις σχετικές διατάξεις των ευρωπαϊκών οδηγιών. NL CE-markering: OSRAM verklaart dat dit product voldoet aan de basisvereisten en relevante bepalingen van de Europees richtlijnen. S CE-marking: OSRAM tillkänner att den här produkten uppfyller de grundläggande kraven och relevanta bestämmelserna i de europeiska rettningslinjerna. FIN CE-merkintä: OSRAM alkamassa, että tämä tuote tyytää Eurooppalaisen perusvaatimus ja muu tarkeat vaatimukset. N CE-marking: OSRAM erklerer, at dette produktet oppfyller krav og relevante bestemmelser i de europeiske rettningslinjene. DK CE-mrkning: OSRAM erklerer, at dette produktet overholder de grundleggende krav og relevante bestemmelser i de europeiske rettningslinjene. CZ Značka CE: Společnost OSRAM prohlašuje, že tento výrobek splňuje základní požadavky a relevantním predpisem evropských směrnic. RUS Markevorka CE: компания OSRAM заявляет, что данный продукт отвечает основным требованиям и соответствующим положениям Европейских директив. KZ CE белгі: OSRAM компаниясы бұл енимдік Еуропалық нұсқаулықтардың негізгі тапташтар мен көткеси ережелерine сәйкесінше өтілірады. PL Oznamowanie CE: firma OSRAM oświadczycza, że niniejszy produkt jest zgodny z podstawowymi wymogami i odpowiednimi postanowieniami wytycznych europejskich. SK Označenie CE: Spoločnosť OSRAM týmto deklaruje, že tento produkt využívajú základným požiadavkam a relevantným predpisom evropských směrnic. SLO Označka CE: Družba OSRAM izjavlja, da ta izdelek izpoljuje osnovne zahteve in ustreza določila evropskih smernic. TR CE işaret: OSRAM, bu ürünün Avrupa kılavuz ilkeletinin ilgili hükümleri ve temel gerekliklerine uygun olduğunu beyan eder. HR Označka CE: tvrtka OSRAM ovim izjavljuje da je ovaj proizvod u skladu s osnovnim zahtjevima i relevantnim odredbama europskih direktiva. RO Marcaj CE: OSRAM declară că acest produs respectă cerințele de bază și prevederile relevante ale standardelor europene. BG Markevorka „CE“: OSRAM deklarera, che produkten tillstyrker de relevanta bestämmelserna i de europeiska direktiverna. LT CE ženklinimas: OSRAM pareiškia, kad šis prietaisas atitinka pagrindinius Europos gairių reikalavimus ir atitinkamas nuostatas. LV CE markējums: OSRAM pazīno, ka šis produkts atbilst Eiropas vadlīnijā pamata prasībām un saistītībā nosacījumiem. SRB CE označavanje: OSRAM izjavljuje da je ovaj proizvod u saglasnosti sa osnovnim zahtevima i važećim propisima evropskih smernica. UA Marķavannia CE: компания OSRAM засвідчує,



Horticulture Use

4. IMPORTANT SAFETY PRECAUTIONS & EXPLANATION OF SYMBOLS

- Please read this manual thoroughly before attempting to install or operate any Fluence VYPR Series system.
- After successful installation and configuration of the system, be sure to retain this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble free installation.
- It is important you read, fully understand, and observe the subsequent safety precautions. If you are not comfortable with the installation of high performance lighting systems, you should seek the services of a qualified installation professional or call us for help.
- NOTICE: VYPR is a high-performance lighting system. Do not touch while in operation.
- Connect the system only to the power sources of the appropriate voltage using the correct AC plug type. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the system to an electrical outlet or extension cord of appropriate type and rating. Connect the system only to the power sources of the correct voltage using the plug received.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades – one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.
- The system should only be cleaned as directed in the manual. You should seek service for your system by qualified service personnel if any of the following occur:
 1. The power-supply cord or the plug has been damaged.
 2. The unit has been exposed to rain.
 3. The unit exhibits a marked change in performance.
 4. The unit has been dropped, or its enclosure or chassis is damaged.

5. CULTIVATION BEST PRACTICES

Fluence encourages everyone to experiment and pursue their own techniques. Every crop is different and everyone has different goals. However, our internal research has given us insight into several strategies we would like to share.

- Regularly check your plants' growth and health. Fluence lighting systems deliver high levels of PAR, typically more than experienced in nature. Adjustments to H₂O, CO₂, RH, nutrients, and temperature are typically required.

- Mount your fixture at least 18" from the top of your canopy to ensure optimal uniformity and consistent PPFD. The VYPR Series was designed to provide uniform light dispersion and requires precise deployment. A 1" variation in either direction will have a significant effect in uniformity and PPFD (which may or may not be desired).

- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and room ambient temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.

For cultivation recommendations visit

<https://fluence.science/science-articles/>

6. GENERAL CARE

VYPR lighting systems are passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle-after-cycle.

- Natural convection removes heat away from the heatsink. In order for the system to properly cool itself, at least one inch of space is required between the fixture and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heatsink and LED array. Cleaning should always be done with the fixture unplugged from its power source using low-pressure compressed air or water to rinse off heatsink or LED array.
- Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicon seal, or dislodge diodes entirely.
- To limit degradation, avoid touching the diodes with your hands, even in a powered off state.

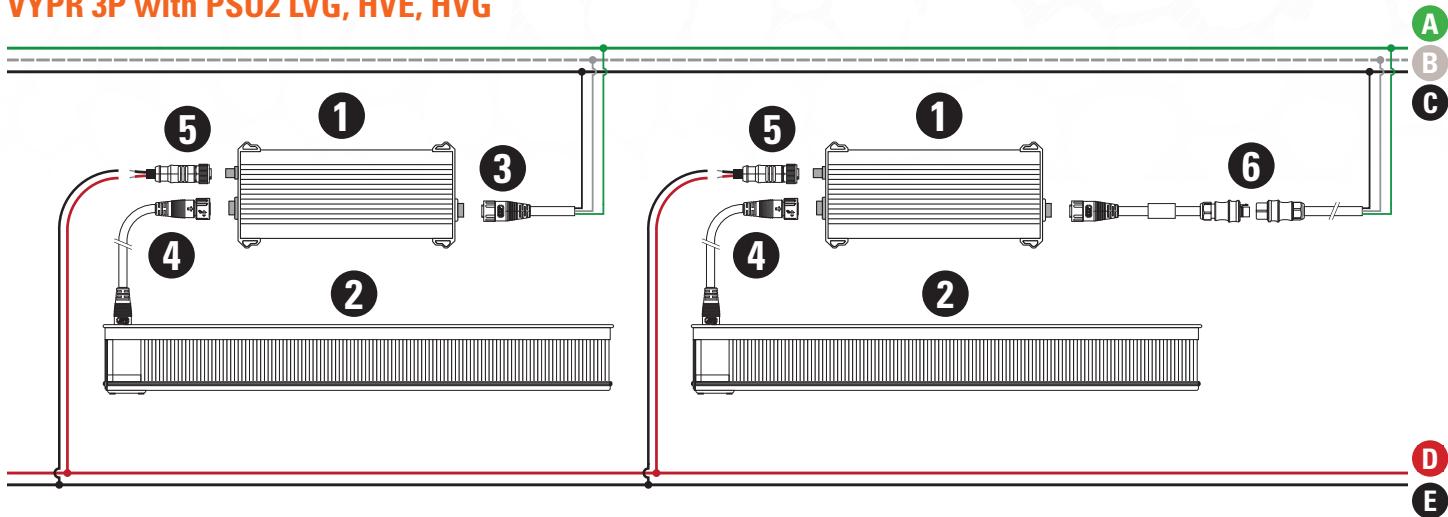
For detailed instructions for maintenance and cleaning, visit
[www.fluence.science/support-center/](https://fluence.science/support-center/)

VYPR is a high-performance lighting system. Do not touch while in operation.

PLEASE RECYCLE ALL PACKAGING MATERIAL.

7. SYSTEM WIRING DIAGRAM AND SPECIFICATIONS

VYPR 3P with PSU2 LVG, HVE, HVG



COMPONENTS

1. Power Supply
2. Light Fixture
3. AC Power Cable to Power Supply
4. DC Power Cable to Light Fixture
5. DC Dimming Signal Cable to Power Supply
6. Optional WIELAND© AC power cable adapters to Power Supply
(CACE-71576-10) and CCA pigtail cable (CACE-71650-10)

CABLING

- A. AC Power Ground
- B. AC Power Neutral
- C. AC Power Line (Main)
- D. 0-10V DC Dim (+)
- E. 0-10V DC Dim (-)

Power Supply Connector	Connector Type	Pin Assignments
AC Power Connector	Push-lock Male M19, 3-pin	Pin N: Neutral Pin L: Line Pin G: Ground
DC Power Connector	Push-lock Female M19, 2-Pin	Pin 1: LED (-) Pin 2: LED (+)
Dimming Connector	IEC61076-2-101 Threaded A-Code Male M12, 3-pin	Pin 1: Dim (-) Pin 3: Dim (+) Pin 4: 12VDC+

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Maximum Ambient Operating Temperature: 95° F / 35° C

SYSTEM SPECIFICATION SHEETS

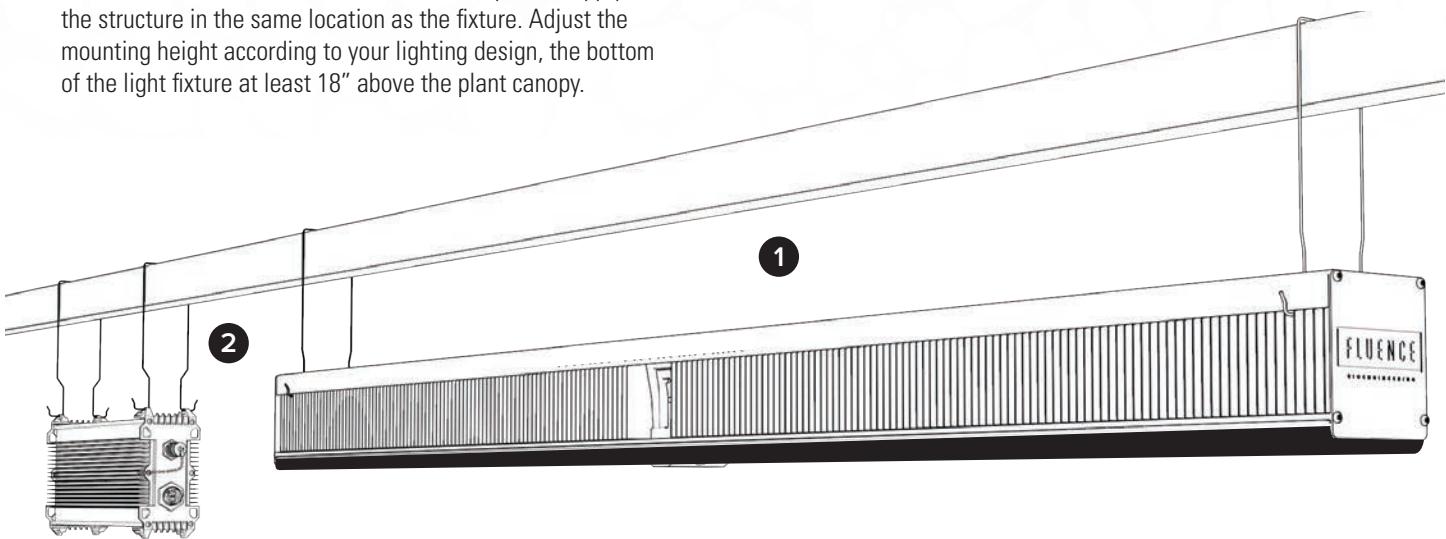
For complete product information and system specifications please visit

www.fluence.science/support-center/

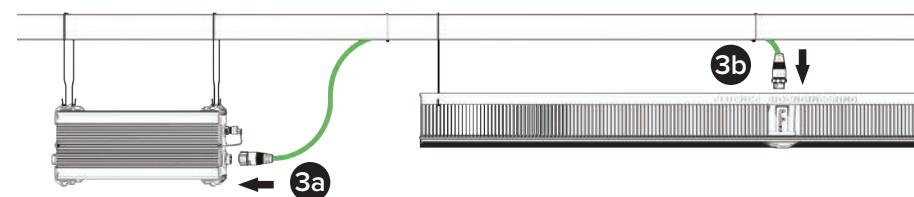
or email support@fluencebioengineering.com

8. SYSTEM INSTALLATION INSTRUCTIONS

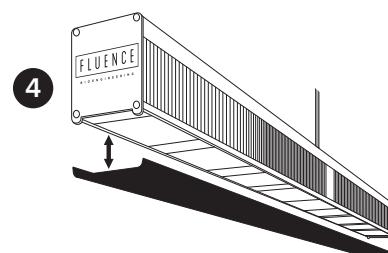
- 1** Mount the light fixture in a location according to your lighting design, per the installation steps for your purchased hardware. For Combo Mount, first mount the power supply to the structure in the same location as the fixture. Adjust the mounting height according to your lighting design, the bottom of the light fixture at least 18" above the plant canopy.



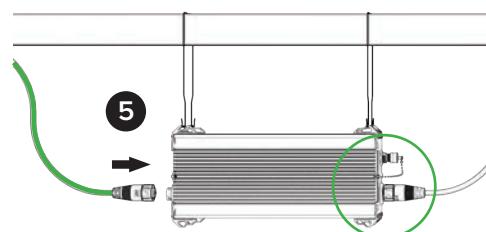
- 3** Connect the DC power extension cable to the power supply and light fixture, i.e. p/n CDCG-71591-10 or CDCG-70720-10.



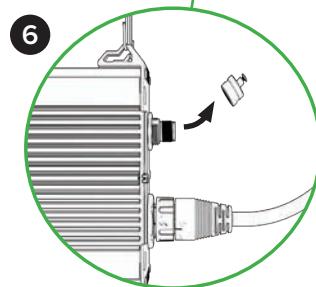
- 4** Remove the protective cover to expose the LED array. Discard the cover.



- 5** Connect the AC power cable to the power supply, i.e. p/n CACA-70754-10. Wire to AC power per the system wiring diagram, or plug in AC power cables, and test.



- 6** Optional: if connecting to a dimmer system or controller, remove the dust cap on the power supply, and connect a Fluence wet location dimming cable, i.e p/n CDMA-71561-10.



CAUTION: To protect the LED ARRAY,

- Do NOT remove the protective cover during installation.
- Do NOT contact the LED array or protective cover with sharp object or force that may damage the LED's.
- Do NOT leave the protective cover on the fixture after installation. It will melt when powering the fixture.
- Do NOT plug in AC power BEFORE connecting the power supply to VYPR fixture first.
- Also, the power supply heat sink fin edges may be sharp. The use of gloves is recommended when handling and installing the power supply to reduce the risk of injury.

PRECAUCIÓN: Para proteger el LED ARRAY,

- NO retire la cubierta protectora durante la instalación.
- NO entre en contacto con la matriz LED o la cubierta protectora usando un objeto o fuerza afilado que pueda dañar el LED.
- NO deje la cubierta protectora en el aparato después de la instalación. Se derretirá al encender el aparato.
- NO conecte primero la alimentación de CA ANTES de conectar la fuente de alimentación a la unidad VYPR.
- Además, los bordes de la aleta del dissipador térmico de la fuente de alimentación pueden ser afilados.
- Se recomienda el uso de guantes al tocar e instalar la fuente de alimentación para reducir el riesgo de lesiones.

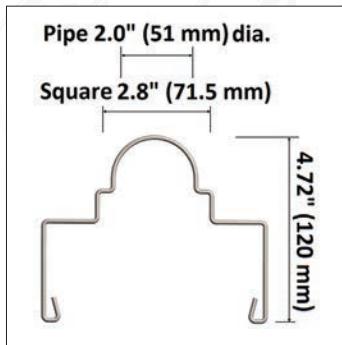
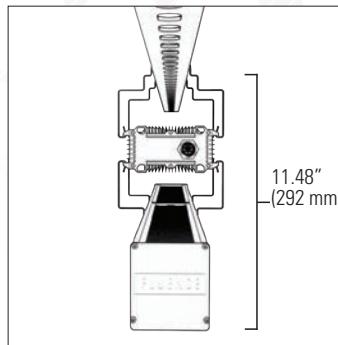
MISE EN GARDE : Pour protéger le réseau de DEL

- NE PAS retirer le couvercle de protection pendant l'installation.
- NE PAS mettre en contact la matrice de DEL ou le couvercle de protection avec un objet pointu ou une force qui pourrait endommager les DEL.
- NE PAS laisser le capot de protection sur le luminaire après l'installation. Il fondu lors de la mise sous tension de l'appareil.
- NE PAS brancher l'alimentation CA AVANT de connecter l'alimentation au luminaire VYPR.
- De plus, les bords des ailettes du dissipateur thermique de l'alimentation électrique peuvent être coupants. L'utilisation de gants est recommandée lors de la manipulation et de l'installation de l'alimentation électrique afin de réduire le risque de blessure.

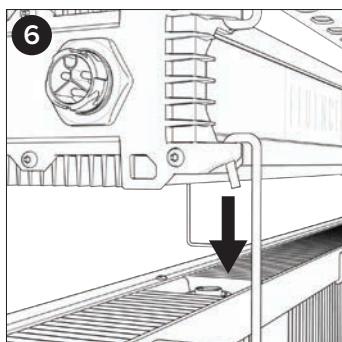
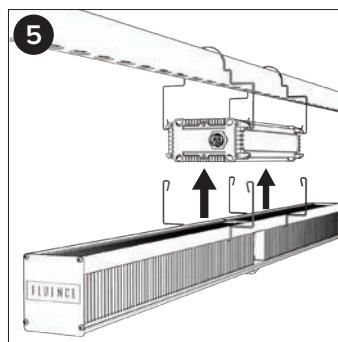
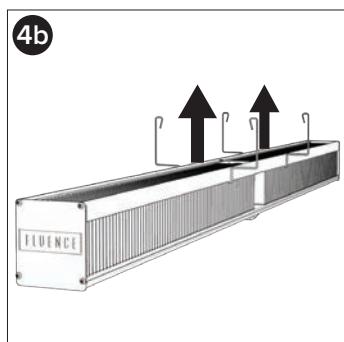
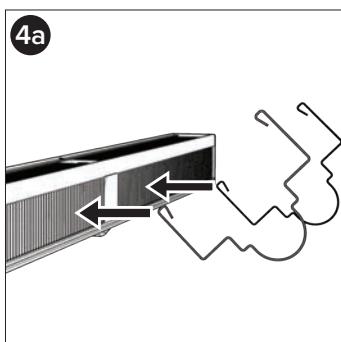
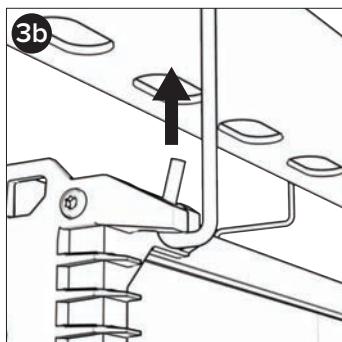
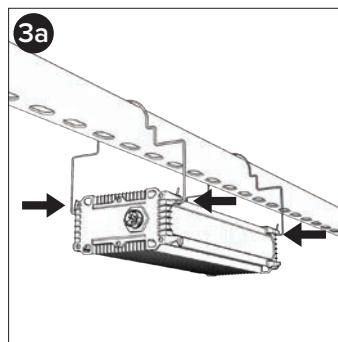
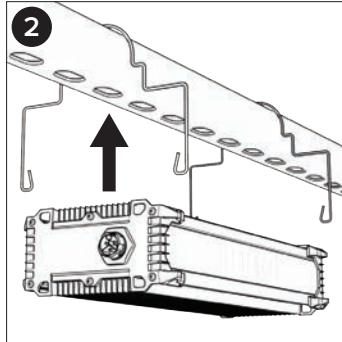
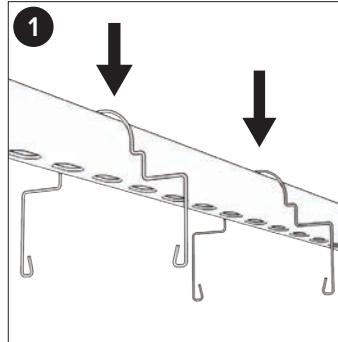
9. MOUNTING INSTRUCTIONS

9.1 Combo Mount Kit (AMV3-10569-20)

Suitable for pipes up to $1\frac{3}{4}$ " (44.5 mm) in diameter, and for trusses or channel up to $2\frac{3}{4}$ " (69.9 mm) wide.

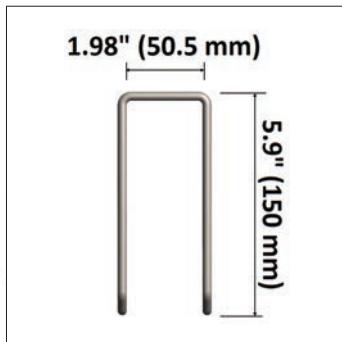
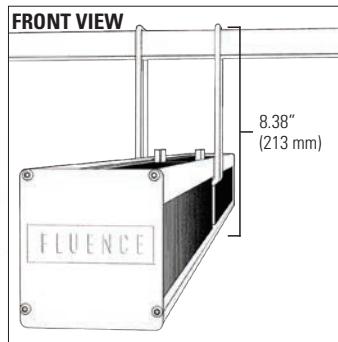
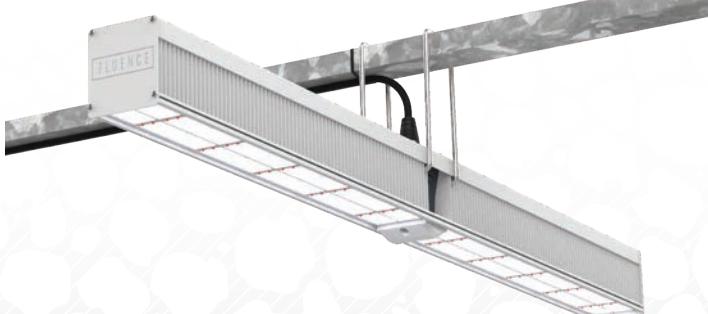


- 1 Take (2) mounting hangers. Hang both brackets over the support structure as shown
- 2 Mount the power supply in the desired location, per the installation steps for your purchased mounting hardware.
- 3 Hook each hanger end onto the upper loops at each corner of the power supply.
- 4 Take (2) more mounting hangers as shown and Insert them through a slot between the VYPR fixture cooling fins. Space them to line up with the power supply lower loops. Pull up to clip the hangers to the fixture.
- 5 Hold the VYPR fixture up to the underside of the power supply as shown.
- 6 To complete the mounting, hook each hanger end onto the lower loops at each corner of the power supply.



9.2 Perpendicular Mount Kit (AMV3-10572-20)

Suitable for 25 mm x 50 mm T-slotted strut.

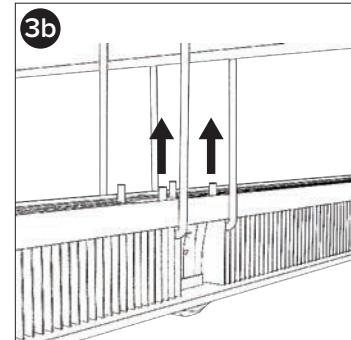
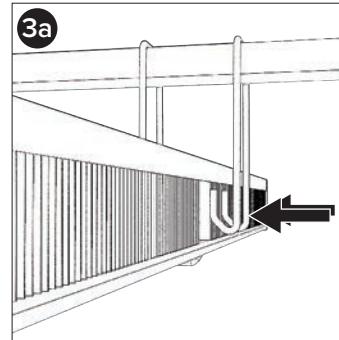
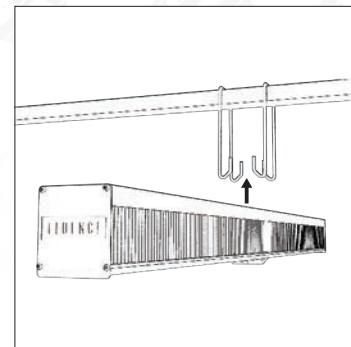
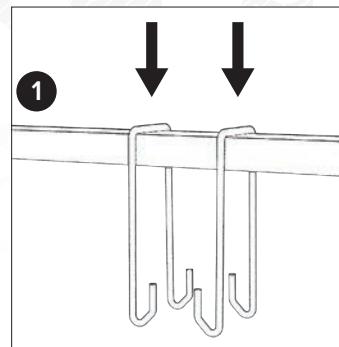


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9. MOUNTING INSTRUCTIONS

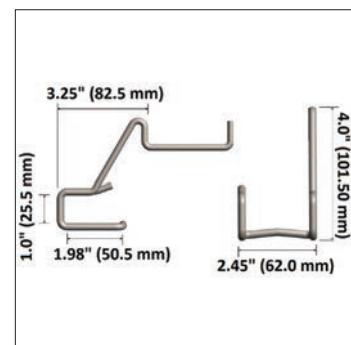
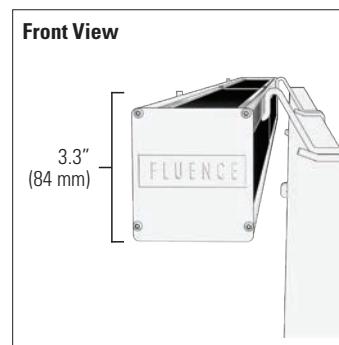
9.2 Perpendicular Mount Kit (AMV3-10572-20)

- 1 Take (2) mounting hangers. Hang both brackets over the support structure as shown.
- 2 Hold the VYPR fixture up to the hangers, perpendicular to the support structure, as shown.
- 3 Hook the hanger ends on each side onto the VYPR fixture as shown between the cooling fins.

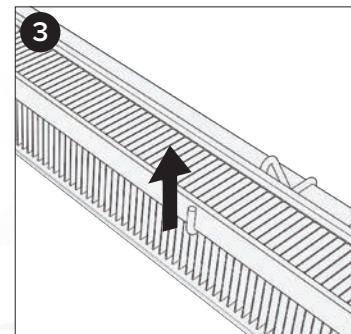
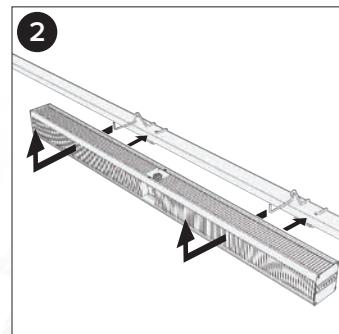
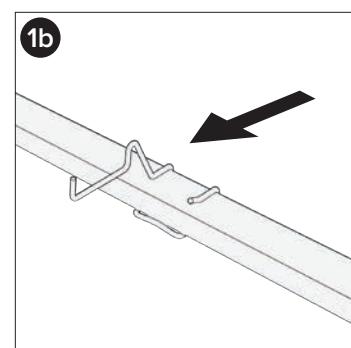
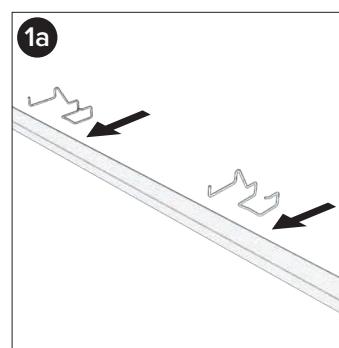


9.3 Parallel Mount Kit (AMV3-10571-20)

Suitable for 25 mm x 50 mm T-slotted strut.



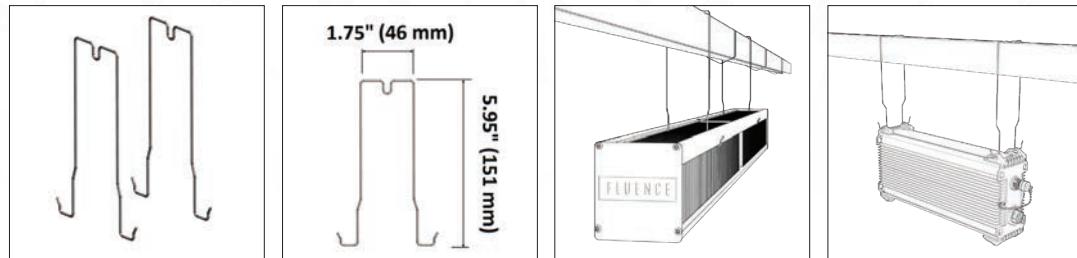
- 1 Take (2) mounting hangers. Hang both brackets on the support structure as shown.
- 2 Hold the VYPR fixture up to the hangers, and slide onto the brackets. Guide the bracket arms through the cooling fins and rest the VYPR fixture on the arms.
- 3 Ensure that the bracket arm hooks are all the way through and secure against the outside of the VYPR fixture frame shown.



9. MOUNTING INSTRUCTIONS

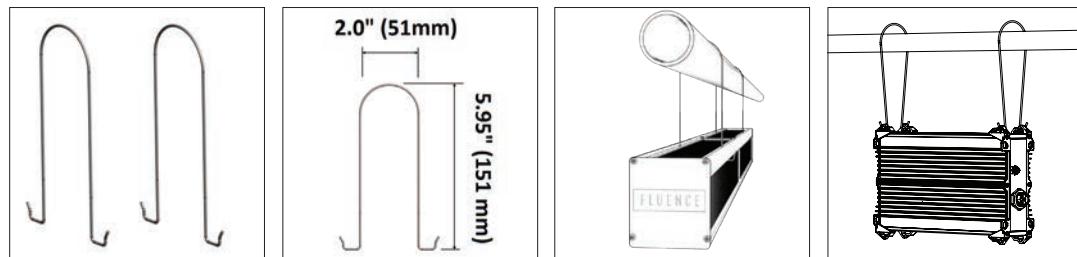
9.4 Unistrut Hanger Kit (AMV2-10120-20)

Suitable for Unistrut up to 1 5/8" (41.28 mm) wide.



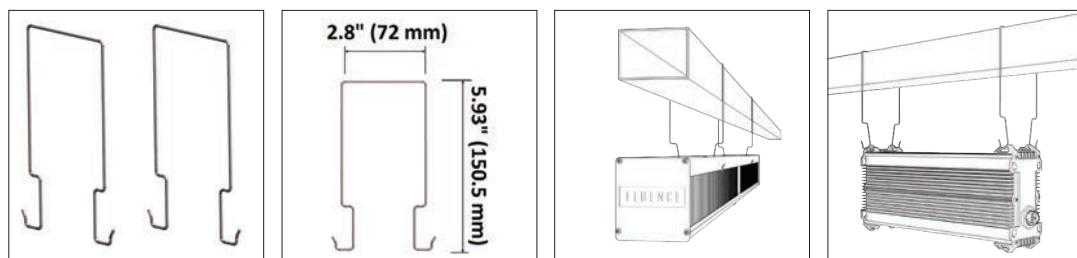
9.5 Pipe Hanger Kit (AMV2-10121-20)

Ideal for mounting under pipes up to 1 3/4" (44.5 mm) in diameter, or can be paired with chain or cable to suspend the fixture lower while the pipe bracket levels the fixture.



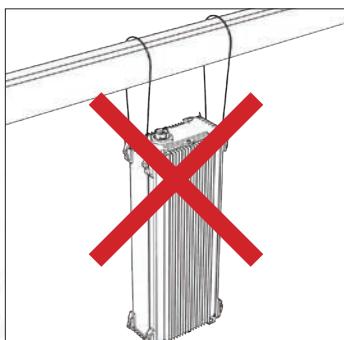
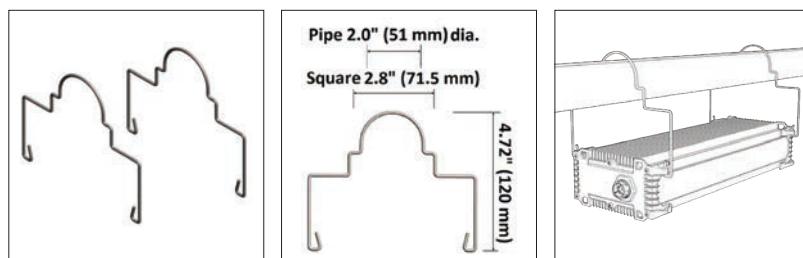
9.6 Square Hanger Kit (AMV2-10119-20)

Suitable for trusses or channel up to 2 3/4" (69.9 mm) wide.



9.7 Combo Mount Hanger Kit (AMV3-10569-20)

Suitable for pipes up to 1 3/4" (44.5 mm) in diameter, and for trusses or channel up to 2 3/4" (69.9 mm) wide.



IMPORTANT: DO NOT mount the power supply vertically using wire-form type hangers. To mount the power supply vertically, use a Surface Mount Kit secured to a flat surface.

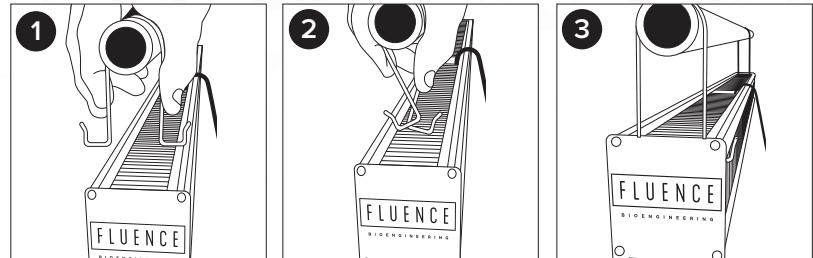
IMPORTANTE: NO coloque la fuente de alimentación verticalmente utilizando perchas de forma de alambre. Para montar la fuente de alimentación verticalmente, utilice un kit de montaje en superficie fijado a una superficie plana.

IMPORTANT: NE PAS monter l'alimentation électrique à la verticale en utilisant des supports de type fil de fer. Pour monter l'alimentation électrique à la verticale, utilisez un kit de montage en surface fixé sur une surface plane.

9. MOUNTING INSTRUCTIONS

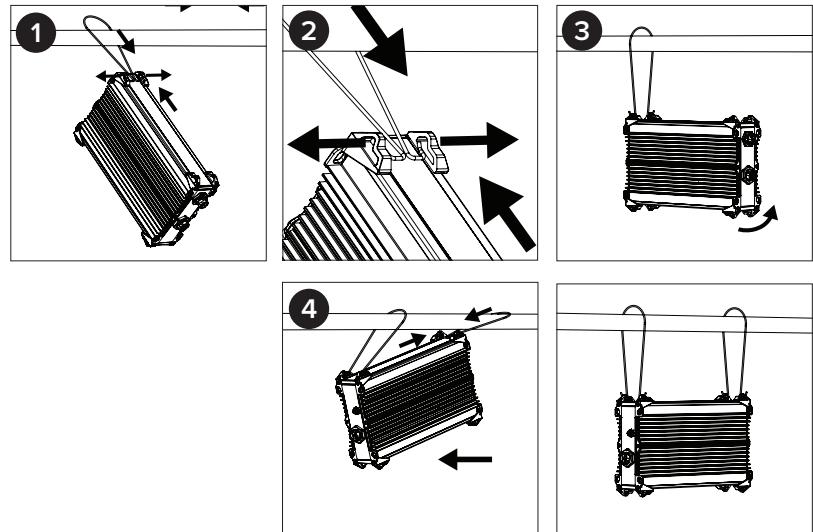
Light Fixture with Unistrut, Pipe, or Square Hanger Kit

- 1 Take (2) mounting brackets. Hang a bracket over the support structure and hold up the VYPR fixture under it.
- 2 While maintaining a firm grip on both, pinch the bottom of the bracket inward and insert it into the top of VYPR heatsink between the fins, release the tension of the bracket.
- 3 When installed properly, the bracket should hook into both sides of the VYPR heatsink frame to provide a level and secure mount.
- 4 Repeat steps 1-3 on the other side of the fixture to finish mounting your VYPR. The two brackets should be centered to the fixture and widely spaced out, with 3"-8" to the fixture edge.



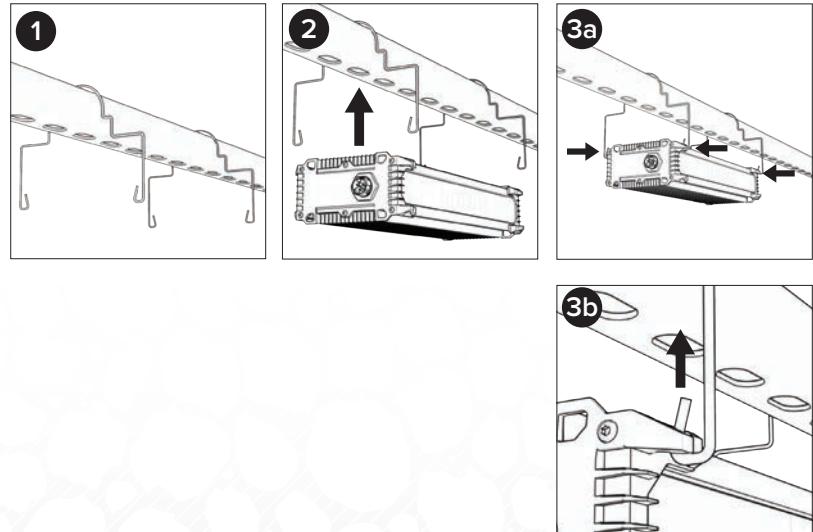
Power Supply Remote with Unistrut, Pipe, or Square Hanger Kit

- 1 Take (2) mounting brackets and hang a bracket over the support structure. Locate the holes for brackets on the narrow side of PSU power supply, hold up the power supply under the support structure under it.
- 2 While maintaining a firm grip on both, pinch the bottom of the bracket inward and horizontally insert it into the receiving holes on the PSU power supply, release the tension of the bracket.
- 3 Lift the ends of the brackets up to a 90° angle. Repeat above steps to install another bracket on the PSU power supply.



Power Supply Remote with Combo Mount Hanger Kit

- 1 Take (2) mounting hangers. Hang both brackets over the support structure as shown.
- 2 Hold the power supply up to the hangers as shown.
- 3 Hook each hanger end onto the upper loops at each corner of the power supply.

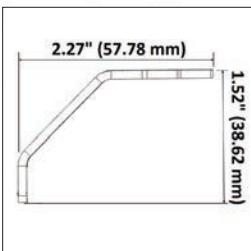
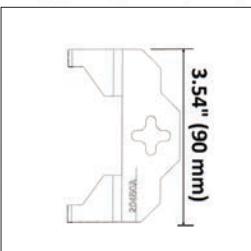


9. MOUNTING INSTRUCTIONS

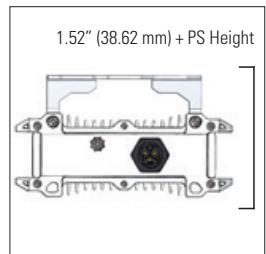
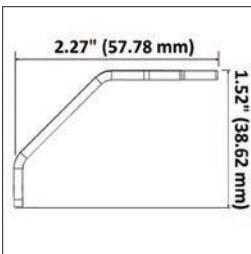
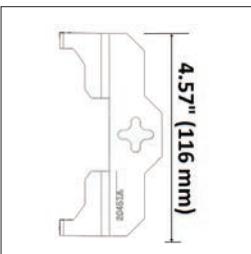
9.8 Power Supply Remote with Surface Mount Kit

Surface mount brackets are suitable for mounting to any flat surface that will support the weight of the power supply.

PSU2 LVG, HVE



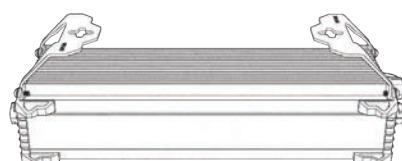
PSU2 HVG



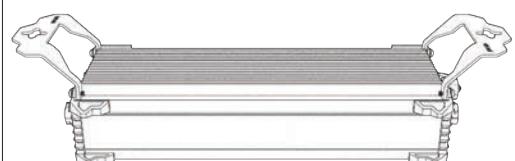
Bracket Positions

The mounting brackets can be installed outward or inward. If installed inward, it may be necessary to first mount the brackets to the surface.

Inward

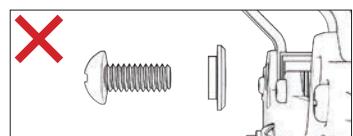
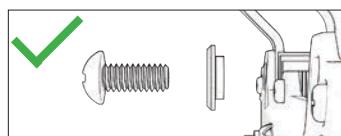
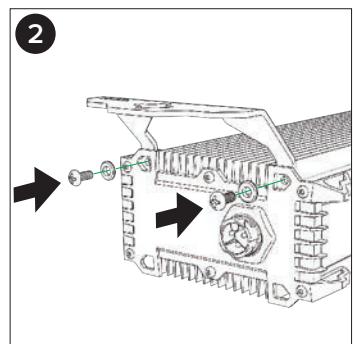
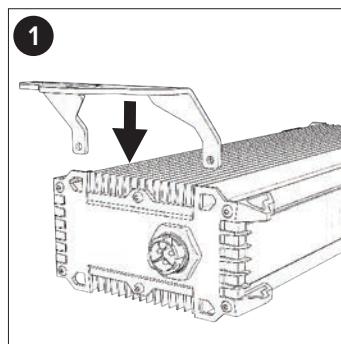


Outward

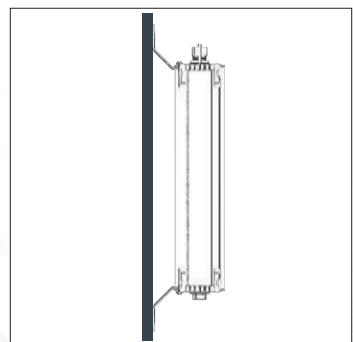
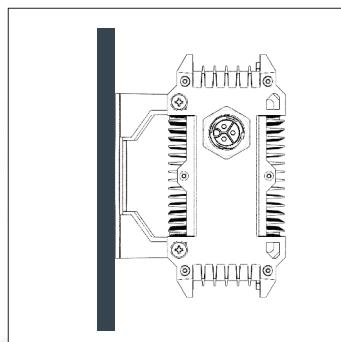
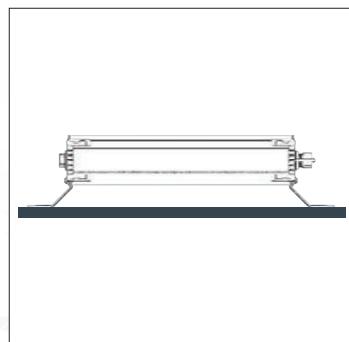
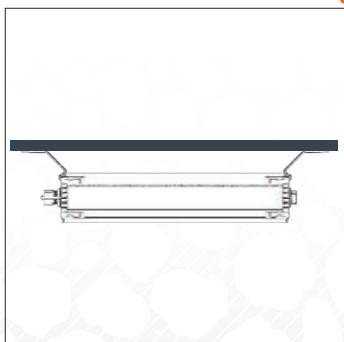


Bracket Installation

- 1 Place one bracket behind the power supply end plate and align the screw holes
- 2 Install a screw and washer in each hole and tighten. Ensure the washer is installed in the correct direction as shown for proper fit and function. Do not overtighten.
- 3 Repeat steps 1 and 2 at the other end. Mount the power supply to the desired surface using suitable hardware for the surface material, and weight of the power supply.



Recommended Mounting Positions





10. OUR PRODUCT GUARANTEE & WARRANTY

Every Fluence Lighting system is engineered and built by Fluence Bioengineering using state-of-the-art robotics and hand craftsmanship. All Fluence Lighting systems are guaranteed against manufacturing defects for five years from date of purchase. Contact us at support@fluencebioengineering.com for more warranty information.

We stand behind our research, we stand behind our technology and we stand behind our clients. www.fluence.science/warranty/



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