



## VYPR DUO 3x2

### LED TOP LIGHT EU

Featuring multiple spectra and high efficacy, the VYPR Series is Fluence's advanced solution for greenhouse supplemental lighting and indoor sole-source applications.

#### GROWER'S CHOICE OF SPECTRUM

From broad white to high red, Fluence PhysioSpec™ is offering BROAD and DUAL spectrum options on VYPR Series. This flexibility prioritizes the grower's needs in optimizing spectral content and light levels for any crop, at any growth stage, in any geographic location.

**PhysioSpec™ BROAD** Spectra offer photon emission across the PAR 400-700nm continuous wavelength range, balancing energy efficiency with quality of light for desired plant response and human work environment.

**PhysioSpec™ DUAL** Spectra feature two narrow spectral bands that maximize energy efficiency, aiming to further reduce energy cost and operational expense.



#### EFFICIENT AND POWERFUL

Built upon patented thermal management technologies, VYPR 3X2 features market leading efficacies up to 3.8  $\mu\text{mol/J}$ , enabling the replacement of HPS lights with significant energy savings.

Compared to VYPR 3P, at the same mounting height, **VYPR 3X2 Remote Mount** can distribute the same amount of light to a much larger grow area. It provides a cost-effective solution for grow environments with constrained ceiling heights, such as indoor or low greenhouses.

Compared to VYPR 3P, **VYPR 3X2 Cradle Mount** emits the same amount of light but at a half of VYPR 3P's fixture length. This allows the installation of many more fixtures on a single truss, drastically increasing the available light per truss for high PPFD applications.

## SPECIFICATIONS

|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| Light Distribution (Beam Angle)   | 120°                                         |
| AC Input Voltage                  | 230 V AC, 400 V AC, 50 Hz (± 10%)            |
| Power Factor                      | > 0,98 (230 V AC); > 0,96 (400 V AC)         |
| Total Harmonic Distortion (THD)   | < 10%                                        |
| Dimming                           | Source Signal driver, 0/1-10 V, OFF/ 10-100% |
| Thermal Management                | Passive                                      |
| Max. Ambient Temperature          | 40°C / 104°F                                 |
| Lifetime L90                      | > 50,000 hrs                                 |
| Warranty                          | 5 Year Limited                               |
| IP Rating                         | IP66                                         |
| Certifications                    | CE, ETL, cETL, wet location                  |
| Industry Standards                | IEC 60598-1, UL1598, UL8750, UL8800          |
| IEC 61347-1 Electrical Insulation | Class I                                      |

## PHOTOSYNTHETIC PHOTON FLUX AND EFFICACY\* (400-700 nm)

| PhysioSpec™ SPECTRUM   | LIGHT OUTPUT PPF (400-700 nm) (μmol/s) | @400 V AC    |                         | @230 V AC    |                         | SKU ABBR.  |
|------------------------|----------------------------------------|--------------|-------------------------|--------------|-------------------------|------------|
|                        |                                        | AC Power (W) | Efficacy (PPE) (μmol/J) | AC Power (W) | Efficacy (PPE) (μmol/J) |            |
| BROAD R3               | 1692                                   | 618          | 2,7                     | 625          | 2,7                     | VR-3X2-BW3 |
| BROAD R4               | 1665                                   | 618          | 2,7                     | 625          | 2,7                     | VR-3X2-BW4 |
| BROAD R6               | 1801                                   | 606          | 3,0                     | 613          | 2,9                     | VR-3X2-BP6 |
| BROAD R8               | 1929                                   | 600          | 3,2                     | 606          | 3,2                     | VR-3X2-BP8 |
| DUAL R9B High Efficacy | 2317                                   | 611          | 3,8                     | 617          | 3,8                     | VR-3X2-HR9 |
| DUAL R9B               | 2195                                   | 614          | 3,6                     | 621          | 3,5                     | VR-3X2-DR9 |
| DUAL R5B               | 1704                                   | 619          | 2,8                     | 626          | 2,7                     | VR-3X2-DR5 |

\* Average value at thermally steady state  
Please contact Fluence Sales for details of Spectra

## NOMINAL ELECTRICAL AC INPUT\*

| PhysioSpec™ SPECTRUM   | AC VOLTAGE | 230 V  | 400 V  |
|------------------------|------------|--------|--------|
| BROAD R3<br>BROAD R4   | AC Current | 2,72 A | 1,54 A |
|                        | AC Power   | 625 W  | 618 W  |
| BROAD R6               | AC Current | 2,66 A | 1,51 A |
|                        | AC Power   | 613 W  | 606 W  |
| BROAD R8               | AC Current | 2,64 A | 1,50 A |
|                        | AC Power   | 606 W  | 600 W  |
| DUAL R9B High Efficacy | AC Current | 2,68 A | 1,53 A |
|                        | AC Power   | 617 W  | 611 W  |
| DUAL R9B               | AC Current | 2,70 A | 1,54 A |
|                        | AC Power   | 621 W  | 614 W  |
| DUAL R5B               | AC Current | 2,72 A | 1,55 A |
|                        | AC Power   | 626 W  | 619 W  |

\* At 25°C (77°F) ambient temperature

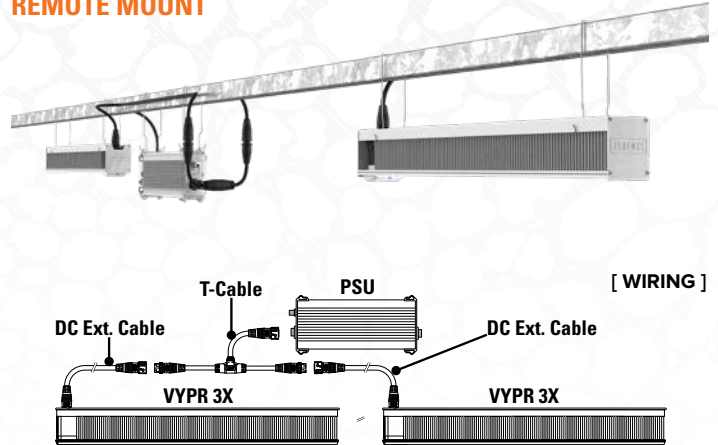
## DIMENSIONS AND WEIGHT

| PART                                | SKU ABBR.      | Length           | Width           | Height         | Weight            |
|-------------------------------------|----------------|------------------|-----------------|----------------|-------------------|
| VYPR 3x<br>Single Light Fixture     | VR-3X-XXX      | 612 mm<br>24,09" | 74 mm<br>2,91"  | 82 mm<br>3,23" | 2,2 kg<br>4,8 lb  |
| VYPR 3x2<br>Cradle or Remote Mount  | VR-3X2-XXX     | 612 mm<br>24,09" | 235 mm<br>9,26" | 178 mm<br>7,0" | 8,0 kg<br>17,7 lb |
| Power Supply<br>LVG 600 W, 230 V AC | VR-3X2-XXX-LVG | 329 mm<br>12,9"  | 134 mm<br>5,27" | 70 mm<br>2,76" | 4,0 kg<br>8,8 lb  |
| Power Supply<br>HVG 600 W, 400 V AC | VR-3X2-XXX-HVG | 254 mm<br>10"    | 163 mm<br>6,4"  | 63 mm<br>2,48" | 3,4 kg<br>7,5 lb  |

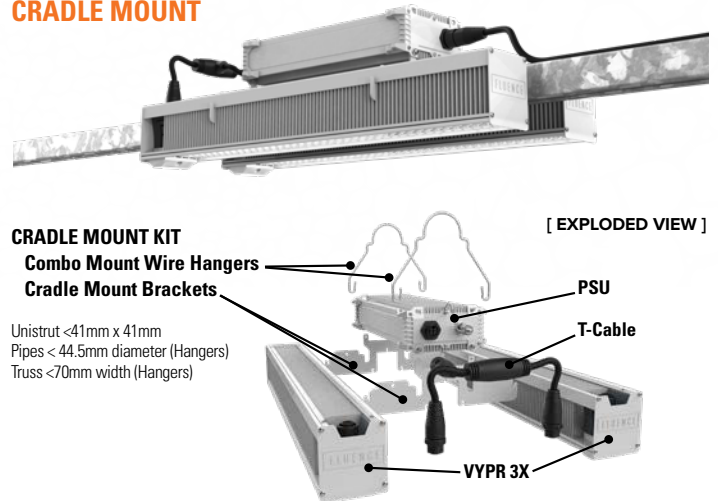
## MOUNTING OPTION EXAMPLES

Please refer to VYPR 3X2 User and Installation Guide for mounting details.

### REMOTE MOUNT

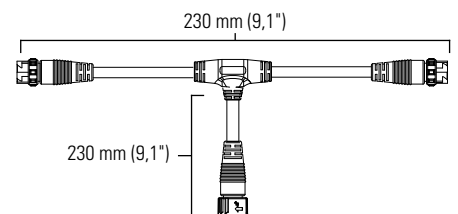


### CRADLE MOUNT



### DC 1-T CABLE (CDG-XXU2D9MP9F0.1)

Required for both configurations



Contact **FLUENCE**   
support@fluence-led.com   
www.fluence-led.com/products/vypr-series/

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Patented Technology - Fluence VYPR products are covered by U.S. Patent 10,571,113.  
Subject to change without notice, Tolerance ±10%  
Horticultural Lighting | Not suitable for household illumination.

SKU MATRIX FOR LIGHT FIXTURE AND POWER SUPPLY

| FAMILY  | MODEL           | PhysioSpec™ SPECTRUM                                                                                                                                                        | INPUT VOLTAGE                              | PACKAGING                                  |
|---------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| VR VYPR | 3X2 Gen 3 X DUO | <b>BW3</b> BROAD R3<br><b>BW4</b> BROAD R4<br><b>BP6</b> BROAD R6<br><b>BP8</b> BROAD R8<br><b>HR9</b> DUAL R9B High Efficacy<br><b>DR9</b> DUAL R9B<br><b>DR5</b> DUAL R5B | <b>LVG</b> 230 V AC<br><b>HVG</b> 400 V AC | <b>B</b> Bulk Pack<br><b>S</b> Single Pack |

LIGHT BARS

| PhysioSpec™ SPECTRUM   | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Pallet Quantity |
|------------------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| BROAD R3               | VR-3X-BW3                | 9124 016 88714                    | 9124 016 88737                  | 112                       |
| BROAD R4               | VR-3X-BW4                | 9124 016 88715                    | 9124 016 88738                  | 112                       |
| BROAD R6               | VR-3X-BP6                | 9124 016 88711                    | 9124 016 88734                  | 112                       |
| BROAD R8               | VR-3X-BP8                | 9124 016 88710                    | 9124 016 88733                  | 112                       |
| DUAL R9B High Efficacy | VR-3X-HR9                | 9124 016 88713                    | 9124 016 88736                  | 112                       |
| DUAL R9B               | VR-3X-DR9                | 9124 016 88709                    | 9124 016 88732                  | 112                       |
| DUAL R5B               | VR-3X-DR5                | 9124 016 88712                    | 9124 016 88735                  | 112                       |

POWER SUPPLIES

| AC Voltage | AC Connector Type | DC Current | Used with Spec-trum                             | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Pallet Quantity |
|------------|-------------------|------------|-------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| 230 V      | M19               | 11,7 A     | BROAD R3<br>BROAD R4<br>BROAD R6                | PLMG-V3A-600-117         | 9124 016 56211                    | 9124 016 56245                  | 33                        |
| 230 V      | M19               | 11,4 A     | BROAD R8<br>DUAL R5B<br>DUAL R9B<br>DUAL R9B HE | PLMG-V3A-600-114         | 9124 016 56220                    | 9124 016 56254                  | 33                        |
| 400 V      | M19               | 11,7 A     | BROAD R3<br>BROAD R4<br>BROAD R6                | PHMG-V2C-600-117         | 9123 000 03431                    | 9123 000 03433                  | 24                        |
| 400 V      | M19               | 11,4 A     | BROAD R8<br>DUAL R5B<br>DUAL R9B<br>DUAL R9B HE | PHMG-V2C-600-114         | 9123 000 03432                    | 9123 000 03434                  | 24                        |

DC CABLES (Fixture to power supply)

| Description                                                                                      | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|--------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| 0,91 m (3 FT) DC Cable, M19 Push Lock                                                            | CDG-XXU2P9MP9F0.9        | 9124 017 01619                   | 9124 016 55876                 | 10                        |
| 1,83 m (6 FT) DC Cable, M19 Push Lock                                                            | CDG-XXU2P9MP9F1.8        | 9124 017 01620                   | 9124 016 55880                 | 10                        |
| 46 cm (18 IN) Right Angle DC Extension cable, M19 Push Lock - for Combo Mount, PSU Surface Mount | CDG-XXU2P9MR9F0.5        | 9124 017 01604                   | 9124 016 55878                 | 10                        |



MOUNTING HARWARE

| Description                                                      | Pcs per Kit | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Carton Quantity |
|------------------------------------------------------------------|-------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| Unistrut Wire Hanger Kit (for strut width ≤ 1-5/8" / 45 mm)      | 2           | MT-VR-US-XX              | 9124 016 56297                    | 9124 016 55884                  | 20                        |
| Pipe Wire Hanger Kit (for pipe diameter ≤ 1-3/4" / 45 mm)        | 2           | MT-VR-PI-XX              | 9124 016 56295                    | 9124 016 55877                  | 20                        |
| Square Wire Hanger Kit (for truss width ≤ 2-3/4" / 70 mm)        | 2           | MT-VR-SQ-XX              | 9124 016 56296                    | 9124 016 55897                  | 20                        |
| Combo Mount Wire Hanger Kit                                      | 4           | MT-V3-CB-XX              | 9124 016 56293                    | 9124 016 55879                  | 20                        |
| VYPR Perpendicular Mount Wire Hanger Kit (for strut 25x50 mm)    | 2           | MT-VR-PP-XX              | 9124 016 56288                    | 9124 016 56019                  | 20                        |
| VYPR Parallel Mount Bracket Kit (for strut 25x50 mm)             | 2           | MT-V3-PL-XX              | 9124 016 56287                    | 9124 016 56020                  | 20                        |
| VYPR Cradle Mount Kit for System with LVG 600 W PSU Power Supply | 2           | MT-V3-CR-LV              | 9124 016 56286                    | 9124 016 56017                  | 10                        |
| VYPR Cradle Mount Kit for System with HVG 600 W PSU Power Supply | 2           | MT-V3-CR-HV              | 9124 016 55346                    | 9124 016 56018                  | 10                        |
| PSU HVG 600 W (PHxG-V2C only) Power Supply Surface Mount Kit     | 2           | MS-PS-MB-HV              | 9124 016 56291                    | 9124 016 56284                  | 10                        |

DC DIMMING SIGNAL CABLE (Power Supply to Dimming Control)

| Description                                                       | Regional Commercial Code | Ordering PN (12NC) Single Pack (S) | Ordering PN (12NC) Bulk Pack (B) | Bulk Pack Carton Quantity |
|-------------------------------------------------------------------|--------------------------|------------------------------------|----------------------------------|---------------------------|
| 80 cm (31,5 IN) Dimming Signal Cable, Cca, Pigtail, M12 Connector | CCE-XXC3T2FL3X0.8        | 9124 017 01623                     | 9124 016 55883                   | 10                        |

AC POWER CABLE (Power Supply to AC Line)

| Description                                                                                                    | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|----------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| 1,83 m (6 FT) AC Cable, VDE H07RN-F, Schuko Type F7 Plug, M19 Push Lock, 250 V AC                              | CAE-XXV3P9FF7P1.8        | 9124 017 01628                   | 9124 016 55901                 | 10                        |
| 1,83 m (6 FT) AC Cable, VDE H07RN-F, Pigtail, M19 Push Lock (CE countries)                                     | CAR-XXV3P9FL3X1.8        | 9124 017 01616                   | 9124 016 88464                 | 10                        |
| 4,57 m (15 FT) AC Cable, VDE H07RN-F, Schuko Type F7 Plug, M19 Push Lock, 250 V AC                             | CAE-XXV3P9FF7P4.6        | 9124 017 01615                   | 9124 016 88463                 | 5                         |
| 4,57 m (15 FT) AC Cable, VDE H07RN-F, Pigtail, M19 Push Lock (CE countries)                                    | CAR-XXV3P9FL3X4.6        | 9124 017 01617                   | 9124 016 88465                 | 5                         |
| 70 cm (27,6 IN) AC Cable, Dca, Pigtail, M19 Push Lock (400V CE application)                                    | CAE-XXD3P9FL3X0.7        | 9124 017 01627                   | 9124 016 55887                 | 10                        |
| 80 cm (31,5 IN) AC Cable, Dca, Pigtail (use with adapter cable) Wieland 96.031.0055.7 Greenleaf (Female)       | CAE-XXD3WGFL3X0.8        | 9124 016 56106                   | 9124 016 56107                 | 10                        |
| 80 cm (31,5 IN) AC Cable, VDE, Pigtail, M19 Push Lock (Female), H07RN-F, w/Ferrite                             | CAR-XXV3P9FL3X0.8        | 9124 016 56110                   | 9124 016 56111                 | 10                        |
| 1,83 m (6 FT) AC Extension Cable, Wieland 96.031.0055.7 Female, Max 600 V AC, 3 Conductors VDE H07RN-F Pigtail | CAE-XXH3WGFL3X1.8        | 9124 016 56075                   | 9124 016 56076                 | 10                        |
| 0,91 m (3 FT) AC Extension Cable, Wieland 96.031.0055.7 Female, Max 600 V AC, 3 Conductors VDE H07RN-F Pigtail | CAE-XXH3WGFL3X0.9        | 9124 016 56073                   | 9124 016 56074                 | 10                        |

CABLE ADAPTERS

| Description                                                                                                                        | Regional Commercial Code | Ordering PN 12NC Single Pack (S) | Ordering PN 12NC Bulk Pack (B) | Bulk Pack Carton Quantity |
|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--------------------------------|---------------------------|
| Wieland AC Connector Adapter for Power Supply, Dca, M19 Push Lock (Female), w/Ferrite, 0,20 m (8 IN), Wieland 96.032.0055.7 (Male) | AAE-XXD3P9FWGM0.2        | 9124 017 01609                   | 9124 016 88466                 | 10                        |

REFLECTOR KIT

| Description                                     | Regional Commercial Code | Ordering PN 12NC Single Pack (-S) | Ordering PN 12NC Bulk Pack (-B) | Bulk Pack Carton Quantity |
|-------------------------------------------------|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| VYPR 3X Reflector Kit 22 IN (2 Kits per System) | OF-V2-R2-XX              | 9124 016 56289                    | 9124 016 56037                  | 40                        |





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