



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 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

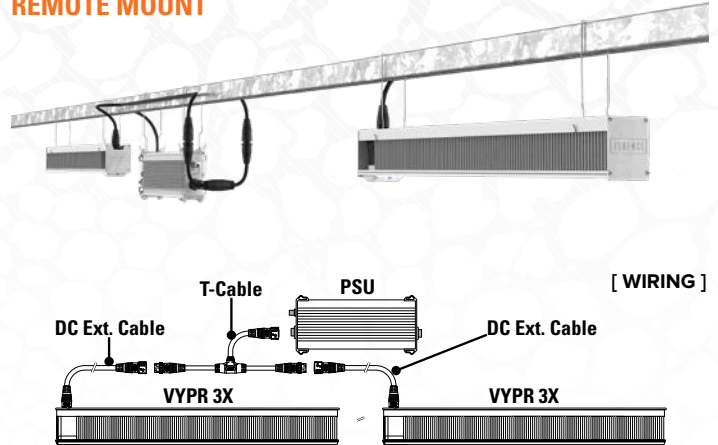
DIMENSIONS AND WEIGHT

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

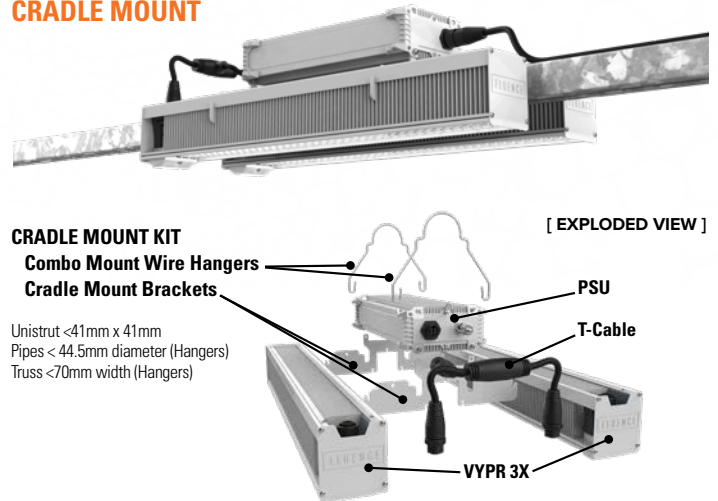
MOUNTING OPTION EXAMPLES

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

REMOTE MOUNT

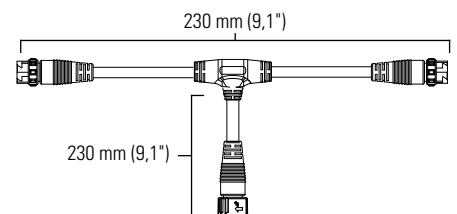


CRADLE MOUNT



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

Required for both configurations



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

© Copyright 2024 Fluence Bioengineering 2024-03
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	BW3 BROAD R3 BW4 BROAD R4 BP6 BROAD R6 BP8 BROAD R8 HR9 DUAL R9B High Efficacy DR9 DUAL R9B DR5 DUAL R5B	LVG 230 V AC HVG 400 V AC	B Bulk Pack S 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 BROAD R4 BROAD R6	PLMG-V3A-600-117	9124 016 56211	9124 016 56245	33
230 V	M19	11,4 A	BROAD R8 DUAL R5B DUAL R9B DUAL R9B HE	PLMG-V3A-600-114	9124 016 56220	9124 016 56254	33
400 V	M19	11,7 A	BROAD R3 BROAD R4 BROAD R6	PHMG-V2C-600-117	9123 000 03431	9123 000 03433	24
400 V	M19	11,4 A	BROAD R8 DUAL R5B DUAL R9B 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





Review our products, share your grow and stay
abreast of the latest Fluence news and product
releases through the channels below:



@Fluence_Global | @Fluence_LED

fluence.science

© Copyright 2024. Fluence Bioengineering, Inc.