

# 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  $\mu\text{mol}/\text{J}$ , 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

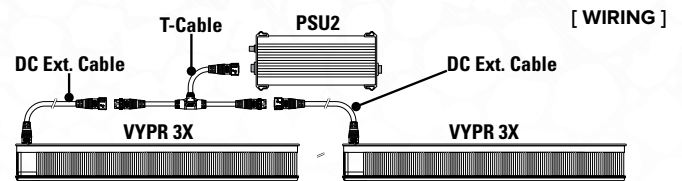
## DIMENSIONS AND WEIGHT

PART	SKU ABBR.	Length	Width	Height	Weight
VYPR 3x Single Light Fixture	VR-3X2-XXX	612 mm 24,09"	74 mm 2,91"	82 mm 3,23"	2,2 kg 4,8 lb
VYPR 3x2 Cradle Mount	VR-3X2-XXX	612 mm 24,09"	235 mm 9,26"	178 mm 7,0"	8,0 kg 17,7 lb
Power Supply PSU2 LVG 600 W, 230 V AC	VR-3X2-xxx-LVG	341 mm 13,43"	134 mm 5,26"	65 mm 2,56"	3,2 kg 7,1 lb
Power Supply PSU2 HVE 600 W, 400 V AC	VR-3X2-xxx-HVE	311 mm 12,24"	134 mm 5,26"	65 mm 2,56"	2,9 kg 6,4 lb

## MOUNTING OPTION EXAMPLES

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

### REMOTE MOUNT



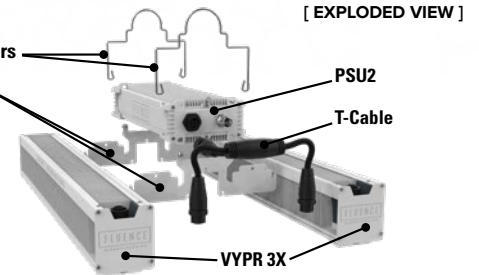
### CRADLE MOUNT



### CRADLE MOUNT KIT

Combo Mount Wire Hangers  
Cradle Mount Brackets

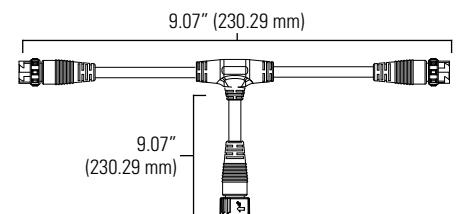
Unistrut <41mm x 41mm  
Pipes <44.5mm diameter (Hangers)  
Truss <70mm width (Hangers)



### DC 1-T CABLE

CDCG-70902-10

Required for both configurations



Contact **FLUENCE**   
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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	
<b>VR</b>	VYPR	<b>3X2</b>	Gen 3 X DUO	<b>BW3</b>	BROAD R3	<b>LVG</b>	230 V AC	<b>B</b>	Bulk Pack
				<b>BW4</b>	BROAD R4	<b>HVE</b>	400 V AC	<b>S</b>	Single Pack
				<b>BP6</b>	BROAD R6				
				<b>BP8</b>	BROAD R8				
				<b>HR9</b>	DUAL R9B High Efficacy				
				<b>DR9</b>	DUAL R9B				
				<b>DR5</b>	DUAL R5B				

PhysioSpec™ SPECTRUM	SKU Abbreviation	Part Number Light Fixture	DC Current	Part Number - Power Supply	
				PSU2 LVG 600 W 230 V AC	PSU2 HVE 600 W 400 V AC
<b>BROAD R3</b>	VR-3X2-BW3	10542	11,7 A	71530	71533
<b>BROAD R4</b>	VR-3X2-BW4	10543			
<b>BROAD R6</b>	VR-3X2-BP6	10519			
<b>BROAD R8</b>	VR-3X2-BP8	10518	11,4 A	10506	10507
<b>DUAL R9B High Efficacy</b>	VR-3X2-HR9	10533			
<b>DUAL R9B</b>	VR-3X2-DR9	10517			
<b>DUAL R5B</b>	VR-3X2-DR5	10530			

## ORDERING CODES FOR ACCESSORIES

MOUNTING OPTIONS	MOUNTING HARDWARE	Quantity per VYPR 3X2 Fixtures	Power Supply PSU2 LVG 600 W 230 V AC	Power Supply PSU2 HVE 600 W 400 V AC	Ordering Code	QTY/ Carton
<b>ALL</b>	VYPR 3X Reflector Kit 22-inch	2 Kits	N/A	N/A	ARV2-10464-40	40 Kits
			N/A	N/A	ARV2-10516-10	10 Kits
<b>VYPR 3x2 Cradle Mount</b>	VYPR Cradle Mount kit for System with LVG/HVE 600 W PSU2 Power Supply	N/A	1 Kit	1 Kit	AMV3-10492-10	10 Kits
<b>VYPR 3x2 Remote Mount</b>	Unistrut Wire Hanger (for strut width ≤ 45 mm / 1-5/8")	2 Kits	1 Kit	1 Kit	AMV2-10120-20	20 Kits
	Pipe Wire Hanger (for pipe diameter ≤ 45 mm / 1-3/4")	2 Kits	1 Kit	1 Kit	AMV2-10121-20	20 Kits
	Square Wire Hanger (for truss width ≤ 70 mm / 2-3/4")	2 Kits	1 Kit	1 Kit	AMV2-10119-20	20 Kits
	VYPR Perpendicular Mount Wire Hanger (for strut 25x50 mm)	2 Kits	N/A	N/A	AMV3-10572-20	20 Kits
	VYPR Parallel Mount Bracket (for strut 25x50 mm)	2 Kits	N/A	N/A	AMV3-10571-20	20 Kits
MOUNTING OPTIONS	DC POWER CABLES (Fixture to Power Supply)	Quantity per VYPR 3X2 System	Ordering Code	QTY/ Carton		
<b>VYPR 3x2 Cradle Mount</b>	DC 1-T Cable, M19 Push Lock	1 pc	CDCG-70902-10	10 pcs		
<b>VYPR 3x2 Remote Mount OPTION 1</b>	DC 1-T Cable, M19 Push Lock	1 pc	CDCG-70902-10	10 pcs		
	0,91 m (3 FT) DC Cable, M19 Push Lock	2 pcs	CDCG-70720-10	10 pcs		
<b>VYPR 3x2 Remote Mount OPTION 2</b>	DC 1-T Cable, M19 Push Lock	1 pc	CDCG-70902-10	10 pcs		
	1,83 m (6 FT) DC Cable, M19 Push Lock	2 pcs	CDCG-70721-10	10 pcs		
AC POWER CABLE - EUROPE (Power Supply to AC Line)		Quantity per Power Supply	Ordering Code	QTY/ Carton		
1,83 m (6 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230V AC		1 pc	CACE-70774-10	10 pcs		
1,83 m (6 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries)		1 pc	CACE-71161-10	10 pcs		
4,57 m (15 FT) AC Cable, VDE, Schuko Type F7 plug, M19 Push Lock, 230V AC		1 pc	CACE-70775-05	5 pcs		
4,57 m (15 FT) AC Cable, VDE, pigtail, M19 Push Lock (not for CE countries)		1 pc	CACE-71162-05	5 pcs		
70 cm (27,6 IN) AC Cable, Dca, pigtail, M19 Push Lock (400V CE application)		1 pc	CACE-71411-10	10 pcs		
80 cm (31,5 IN) AC Cable, Dca, pigtail (use with adapter cable) Wieland connector Part #: 20i30F B2 ZR1S H GN02 (Female)		1 pc	CACE-71650-10	10 pcs		
Wieland AC Connector Adapter for Power Supply, Dca cable, M19 Push Lock, 20 cm (8 IN), Wieland Part #: RST20i3F S2 ZR1SVH GN0 (Male)		1 pc	CACE-71576-10	10 pcs		
DC DIMMING SIGNAL CABLE - EUROPE (Power Supply to Dimming Control)		Quantity per Power Supply	Ordering Code	QTY/ Carton		
80 cm (31,5 IN) dimming signal cable, Cca, pigtail, M12 connector		1 pc	CDME-71526-10	10 pcs		





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