

SMARTCRYSTAL™ DIAMOND

Triple Beam 3D Polarizer



Own the light

Designed by Volfoni in France

Ultra-High Light Efficiency 3D System

- Best 3D Quality and 3D Comfort
- Powered by our own Triple Beam Technology
- Fully HFR Compatible
- Fits smallest projection set-up
- Designed by Volfoni in France

PERFORMANCE

Recommended installation

Projector type	D-Cinema 3xDLP
Maximum lamp power	7 KW / 32 000 lumens
Silver Screen	Standard - 2.4 minimum gain New Generation - 1.7 gain (e.g. Clarus XC 170)
Compatible glasses	Passive glasses/clip-on (circular polarization)

Performance

Optical transmission	70% (e)
Stereoscopic contrast	100:1 (e)
3D Technology	Triple Beam Technology Surface Switching
Throw ratio	Flat 1.37 Scope 1.25

COMPATIBILITY

3D projectors

3xDLP (DCI)	Yes
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3D sources (cables included)

SUB D-37 (3D Cinema)	Yes
SUB D-15	Yes
BNC	Yes

Frame rates

96 Hz HFR & Home Cinema 3D	Yes
120 Hz Sport HFR & 3D-Ready™	Yes
144 Hz Triple Flash 3D Cinema	Yes
192 Hz Dual Flash HFR	Yes
240Hz	Yes

Remote access

NOC (Ethernet / Telnet)	Yes
USB	Yes
GPIO	Yes

SPECIFICATIONS

Optical

Light Efficiency Factor (LEF)	28%
Dark time (90% Transition) VPSP08200	350µs
Dark time (90% Transition) VPSP08000 / VPSP08100	1000µs
Delay time	0µs

Power

Supply	110-240v AC 50/60Hz
Consumption	<40mA AC / 220V (e)

Certification

CE	Yes
ROHS	Yes
International Patent	Pending

Logistics

Operating temperature	+10°C to +50°C
Storage temperature	-5°C to +50°C
Relative humidity	from 20% to 80%
Product dimensions (LxWxH)	280 x 260 x 100 mm
Back Frame dimensions (HxL)	70 x 100 mm
Product weight	5.6 kg (12.3 lbs)

PACKAGING

Composition

SmartCrystal™ Diamond
Power cable
BNC/BNC cable
BNC/SUB-D37 cable
BNC/SUB-D15 cable
SmartCrystal™ Diamond Controller

Weight & Dimensions

Packaging dimensions	540 x 530 x 320 mm
Packaging weight	10 Kg (22 lbs)
Order Reference	VPSP-08200

BRIGHTNESS PERFORMANCE SMARTCRYSTAL™ DIAMOND

Power of the lamp	30K lumens				20K lumens				15K lumens			
	4.5 FI on the screen		6 FI on the screen		4.5 FI on the screen		6 FI on the screen		4.5 FI on the screen		6 FI on the screen	
Light power of the screen	Flat format	Scope format	Flat format	Scope format	Flat format	Scope format	Flat format	Scope format	Flat format	Scope format	Flat format	Scope format
Width of the image*	25.7 m	29.2 m	22.2 m	25.3 m	21 m	23.8 m	18.1 m	20.6 m	18.1 m	20.6 m	15.7 m	17.9 m

* based on own R&D