VDS Series
EXCELLENCE·A MODEL OF PERFECTION

Overview of VDS Series

Leyard VDS Series adopts revolutionary common cathode-driven COB packaging technology, integrating RGB full flip-chip architecture and wireless bonding processes. This innovation achieves 40% lower energy consumption while delivering an ultra-wide 170° viewing angle and 20,000:1 contrast ratio. The triple-integrated system (control/HUB/power) combines with 4H surface hardness and IP54 protection, ensuring impact resistance and simplified maintenance. Featuring a modular floating connection mechanism and front-access design, it streamlines installation and servicing efficiency for seamless deployment.

KEY FEATURES

COB FLIP CHIP
Common cathode drive

FRONT AND REAR MAINTENANCE
Simplifying installation and maintenance

COMMON CATHODE DESIGN
40% energy consumption reduction

AI INTELLIGENT SENSING
Intelligent sensing
for screen status adjustment

5G signals
2.8MP per channel

20000:1
Stunning high contrast

PRODUCT PARAMETER

Product Model	VDS007	VDS009	VDS012	VDS015	VDS018
Pixel Structure	COB flip chip	COB flip chip	COB flip chip	COB flip chip	COB flip chip
Pixel Pitch (mm)	0.78	0.9375	1.25	1.5625	1.875
Unit Resolution (WxH)	768x432	640x360	480x270	384x216	320x180
Unit Size (mm)(WxH)	600x337.5x43.5	600x337.5x43.5	600x337.5x43.5	600x337.5x43.5	600x337.5x43.5
Normal Weight(Kg/m²)	25	25	25	25	25
Pixel Density (pixels/m²)	1638400	1137777	640000	409600	284444
White Balance Brightness (nits)(corrected)	600 & 1000	600 & 1000	600 & 1000	600 & 1000	600 & 1000
Contrast	10000 : 1 & 20000:1	10000 : 1 & 20000:1	10000 : 1 & 20000:1	10000 : 1 & 20000:1	10000 : 1 & 20000:1
Color Temperature (K)	3000K-10000K,adjustable	3000K-10000K,adjustable	3000K-10000K,adjustable	3000K-10000K,adjustable	3000K-10000K,adjustable
Horizontal Viewing Angle (°)	170	170	170	170	170
Vertical Viewing Angle (°)	170	170	170	170	170
Peak Power Consumption (W/m²)	425 & 550	375 & 530	325 & 510	325 & 510	300 & 500
Average Power Consumption (W/m²)	200 & 280	175 & 265	160 & 260	160 & 260	150 & 250
Drive	Common cathode constant current drive	Common cathode constant current drive	Common cathode constant current drive	Common cathode constant current drive	Common cathode constant current drive
Frame Frequency (Hz)	50 & 60	50 & 60	50 & 60	50 & 60	50 & 60
Refresh Rate(Hz)	≥3840	≥3840	≥3840	≥3840	≥3840
Typical Useful Life (Hrs)	≥100,000	≥100,000	≥100,000	≥100,000	≥100,000
Module Surface IP Rating/Hardness	IP54(LED surface available for cleaning with clean water)/4H	IP54(LED surface available for cleaning with clean water)/4H	IP54(LED surface available for cleaning with clean water)/4H	IP54(LED surface available for cleaning with clean water)/4H	IP54(LED surface available for cleaning with clean water)/4H
Working Temp & Humidity Range (°C/RH)	-10-40/10 - 90% without frosting	-10-40/10 - 90% without frosting	-10-40/10 - 90% without frosting	-10-40/10 - 90% without frosting	-10-40/10 - 90% without frosting

Remark: Above data is subject to change without prior notice.