



D27 Series

Specification

Model Name: DA2712 Version: 1.0







Product Specification



Product Features

- COB integrated packaging technology enables high IP rating.
- RGB flip chip excels in heat dispassion, ensuring stable performance and reliable product quality.
- Area light display can effectively prevent Moire pattern on the screen.
- Combine common cathode drive technology with dynamic power-saving drive design, achieving economy and efficient operation.
- Dual calibration technology enhances display image uniformity under low gray scale level.
- A whole new driver structure is applied to achieve super low power consumption and screen temperature, in order to bring stable product performance.
- 3-in-1 highly integrated board design with reduced wire connection between components, thus to improve product stability.
- Display unit adopts magnalium cabinet without heat-dissipation fan, realizing both efficient and eco operation.
- Calibration data is stored on display module, enabling auto data reading after module replacement;
- D27 series meets requirements of ROHS directive in China and EU.







Product Parameter

Physical Parameter

Pixel Composition1R1G1B (full flip chip)Pixel Pitch (mm)1.25Module Resolution (dots)120'135Cabinet Resolution (dots)480'270Pixel Density (dots/m²)648000Module Size (W'H'D) / (mm)600'337.5'35Cabinet Size (W'H'D) / (mm)600'337.5'35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4'2Cabinet Weight (kg)6.5 ± 0.1Catinet Size (W'H'D)1000-1200Cabinet Size (W'H'D)14.16Cabinet Material14.16Cabinet Material3840Catinet Methy150'0: 1Cray Scale (bit)150'0: 1Contrast150'0: 1Color Temperature3,000K-10,000K AdjustableCivewing Angle (HV')170'170Ketrical Parameter170'170AC Input Voltage (V)AC100-240	Pixel Pitch (mm)1.25Module Resolution (dots)120°135Cabinet Resolution (dots)480°270Pixel Density (dots/m²)648000Module Size (W°H) / (mm)150°168.75Cabinet Size (W°H?D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Material1000-1200Cabinet Weight (kg)6.5 ± 0.1Optical Parameter1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical Parameter3,000K-10,000K AdjustableAC Input Voltage (V)AC 100-240AC Input Voltage (V)50/60	Physical Parameter	
Module Resolution (dots)120°135Cabinet Resolution (dots)4480°270Pixel Density (dots/m²)648000Module Size (W°H) / (mm)150°168.75Cabinet Size (W°H°D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Ottical ParameterFrightness (nit)1000-1200Gray Scale (bit)11000-1200Gray Scale (bit)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V°)170/170Electrical Parameter170/170	Module Resolution (dots)120°135Cabinet Resolution (dots)480°270Pixel Density (dots/m²)648000Module Size (W°H) / (mm)150°168.75Cabinet Size (W°H'D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Material4°2Cabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Color Temperature3,000K-10,000K AdjustableViewing Angle (HV °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Pixel Composition	1R1G1B (full flip chip)
Cabinet Resolution (dots)480°270Pixel Density (dots/m²)648000Module Size (W°H) / (mm)150°168.75Cabinet Size (W°H°D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Ottical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Color Temperature3,000K-10,000K AdjustableViewing Angle (HV°)170/170Electrical Parameter	Cabinet Resolution (dots)480°270Pixel Density (dots/m²)648000Module Size (W*H) / (mm)150°168.75Cabinet Size (W*H*D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Optical Parameter1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC Input Voltage (V)AC100-240AC Input Frequency (Hz)50/60	Pixel Pitch (mm)	1.25
Pixel Density (dots/m²)648000Module Size (W*H)/ (mm)150°168.75Cabinet Size (W*H*D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Ottical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Cohor Temperature3,000K-10,000K AdjustableViewing Angle (H/V°)170/170	Pixel Density (dots/m²)648000Module Size (W*H) / (mm)150*168.75Cabinet Size (W*H*D) / (mm)600*337.5*35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg)6.5 ± 0.1Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC Input Voltage (V)AC100-240AC Input Frequency (Hz)50/60	Module Resolution (dots)	120*135
Note of the structure150° 168.75Module Size (W*H) / (mm)600° 337.5° 35Cabinet Size (W*H*D) / (mm)600° 337.5° 35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170	Module Size (W*H) / (mm)150°168.75Cabinet Size (W*H*D) / (mm)600°337.5°35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4°2Cabinet Weight (kg)6.5 ± 0.1Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100-240AC Input Frequency (Hz)50/60	Cabinet Resolution (dots)	480*270
Cabinet Size (W*H*D) / (mm)600*337.5*35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Cohtrast1500: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170	Cabinet Size (W*H*D) / (mm)600*337.5*35Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC 100-240AC Input Voltage (V)ADAC Input Frequency (Hz)50/60	Pixel Density (dots/m ²)	648000
Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170	Cabinet MaterialDie-casting-aluminumCabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical Parameter1000-1200Brightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC Input Voltage (V)AC100-240AC Input Frequency (Hz)50/60	Module Size (W*H) / (mm)	150*168.75
Cabinet Module Arrangement4°2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit) $1000-1200$ Gray Scale (bit) $14-16$ Refresh Rate (Hz) 3840 Contrast 15000 : 1Color Temperature $3,000K-10,000K$ AdjustableViewing Angle (H/V °) $170/170$	Cabinet Module Arrangement4*2Cabinet Weight (kg) 6.5 ± 0.1 Optical ParameterBrightness (nit) $1000-1200$ Gray Scale (bit) $14-16$ Refresh Rate (Hz) 3840 Contrast $15000: 1$ Color Temperature $3,000K-10,000K Adjustable$ Viewing Angle (H/V °) $170/170$ Electrical ParameterAC Input Voltage (V)AC 100~240AC Input Frequency (Hz) $50/60$	Cabinet Size (W*H*D) / (mm)	600*337.5*35
Cabinet Weight (kg) 6.5 ± 0.1 Optical Parameter 1000-1200 Brightness (nit) 14.16 Gray Scale (bit) 14.16 Refresh Rate (Hz) 3840 Contrast 15000: 1 Color Temperature 3,000K-10,000K Adjustable Viewing Angle (H/V °) 170/170	Cabinet Weight (kg) 6.5 ± 0.1 Cabinet Weight (kg) 6.5 ± 0.1 Optical Parameter1000-1200Brightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100-240AC Input Frequency (Hz)50/60	Cabinet Material	Die-casting-aluminum
Optical Parameter Brightness (nit) 1000-1200 Gray Scale (bit) 14-16 Refresh Rate (Hz) 3840 Contrast 15000: 1 Color Temperature 3,000K-10,000K Adjustable Viewing Angle (H/V °) 170/170	Optical ParameterBrightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC(100-240AC Input Frequency (Hz)50/60	Cabinet Module Arrangement	4*2
Brightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical Parameter	Brightness (nit)1000-1200Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Cabinet Weight (kg)	6.5 ± 0.1
Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V°)170/170Electrical Parameter	Gray Scale (bit)14-16Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Optical Parameter	
Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical Parameter	Refresh Rate (Hz)3840Contrast15000: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Brightness (nit)	1000-1200
Contrast 15000: 1 Color Temperature 3,000K-10,000K Adjustable Viewing Angle (H/V °) 170/170 Electrical Parameter 1000000000000000000000000000000000000	Contrast1500: 1Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Gray Scale (bit)	14-16
Color Temperature 3,000K-10,000K Adjustable Viewing Angle (H/V °) 170/170 Electrical Parameter 170/170	Color Temperature3,000K-10,000K AdjustableViewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC100~240AC Input Frequency (Hz)50/60	Refresh Rate (Hz)	3840
Viewing Angle (H/V °) 170/170 Electrical Parameter 170/170	Viewing Angle (H/V °)170/170Electrical ParameterAC Input Voltage (V)AC Input Frequency (Hz)AC100~24050/6050/60	Contrast	15000: 1
Electrical Parameter	Electrical Parameter AC Input Voltage (V) AC100~240 AC Input Frequency (Hz) 50/60	Color Temperature	3,000K-10,000K Adjustable
	AC Input Voltage (V) AC100~240 AC Input Frequency (Hz) 50/60	Viewing Angle (H/V °)	170/170
AC Input Voltage (V) AC100~240	AC Input Frequency (Hz) 50/60	Electrical Parameter	
		AC Input Voltage (V)	AC100~240
AC Input Frequency (Hz) 50/60		AC Input Frequency (Hz)	50/60
$Power Consumption(Max) (M/m^2) = 205$	Power Consumption(Max.) (W/m ²) 395	Power Consumption(Max.) (W/m ²)	395







Power Consumption(Avg.) (W/m ²)	135
Operation Environment Parameter	
Storage Temperature (°C)	-10 - 60
Working Temperature (°C)	-10 - 40
Storage Humidity (RH)	10%~60% No Condensation
Working Humidity (RH)	10%~85% No Condensation
LEDs Life Time (hrs.)	100000
Maintenance Mode	Front Access
Note:	

• All specifications are subject to change without prior notice.

