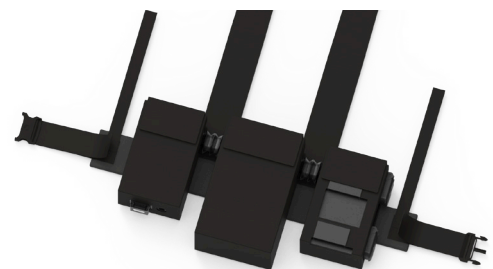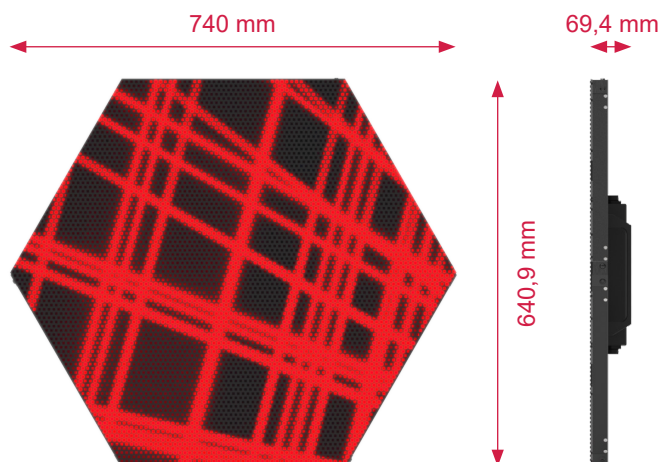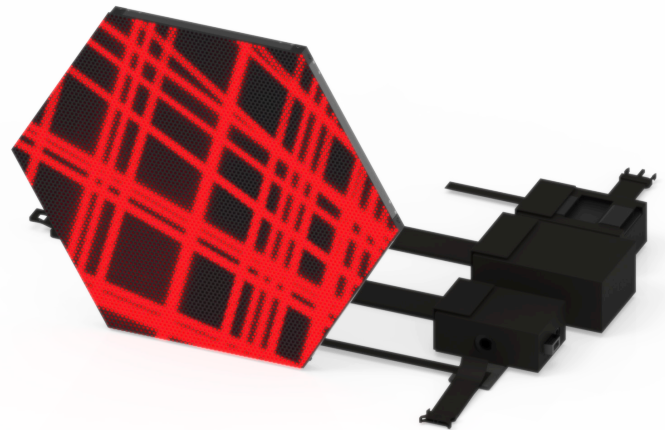# HEX PANELS GEN 2

Handheld Wireless LED Panel

Hex Panels gen 2 are the second generation of an innovative product developed by PRG Projects. It's a product with a large diversity in utilization. The Hex Panels are the perfect building block to build different, dynamic video shapes during a special event or public spectacles.

These wireless hexagonal LED panels are incredibly versatile when in the hands of choreographed performers. Countless image emitting shapes and patterns can be created using the Hex Panels, creating truly unique shows.

The units are wireless, with power packs worn by the performers, and content data sent from the dedicated controllers. Hex Panels can be held individually, and snap together next to each other thanks to the built-in magnets to make larger screens.

The versatility of these handheld units is endless - allowing event designers to imagine a huge number of creative possibilities. This creative video product boasts a battery life of 3 hours while displaying video. This makes it very sufficient for even the most ambitious productions!

740 mm

69,4 mm

640,9 mm

Battery Belt

PRG Projects – Customized LED & Video Solutions

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HEX PANELS GEN 2

Handheld Wireless LED Panel

HEX PANEL SPECS

Horizontal Pixel Pitch	8.043mm
Vertical Pixel Pitch	6.965mm
Physical Density	17851 pixels/sqm
LED Arrangement	3 in 1 SMD
Receiving Card	Colorlight i9+
Module Resolution	46x46px
Module Dimensions	552.1x319.9mm
Cabinet Resolution	92x92px
Cabinet Dimensions	740x640.9x69.4mm
Cabinet Weight	6kg
Brightness (with GOB)	3800nit
Color Temperature	6500K
Max Power Consumption	185W per panel
Avg. Power Consumption	80W per panel
Viewing Angle	150degrees (H&V)
Operating Power Source	24V DC
Operating Temperature (environment)	0° - 40 °C
Refresh Rate	3,840Hz
Lifespan	50,000hrs
IP Rating	IP65
Certification	CE, Rohs

BELT PACK SPECS

GENERAL INFO

Belt Model No.	HEX-BELT-P8
Battery Model No.	LF8015
Battery Type	LiFePO4 cells (Lithium Iron Phosphate)
Normal Voltage	25.6V
Rated Battery Capacity	15Ah (384Wh)

CHARGING

Charge Voltage	29.2V
Nominal Charge Current	3A
Max Charge Current	10A
End of Charge Current	0.3A
Charging time	2 hrs (20% to 80%)
	3 hrs. (0% to 100%)

OUTPUT

Output Voltage (Nominal)	25.6V
Output Voltage Range	20-29.2V
Discharge Cut-off Voltage	20V
Nominal Discharge Current	15A
Battery Runtime	2hr @ 10A (100% brightness, constant white)
	3hr on Video

SIZE/WEIGHT

Battery Size & Weight	L159xW139xH70mm
Belt Pack Size & Weight	6kg

CERTIFICATIONS

Certificates	UN38.3, MSDS

SAFETY FEATURES (BMS & FUSES)

BMS Overheat protection	>70°C cut load/charging, <60°C resume
BMS Overdischarge protection	20V cut off the load, 21V open load

FLIGHTCASE SPECS

15 HEX PANELS PER FLIGHT CASE

Flightcase Dimensions	710x820x2050mm
Flightcase Weight	200kg

30 BATTERY BELTS PER FLIGHT CASE

Flightcase Dimensions	790x1760x1790mm
Flightcase Weight	450kg
30 battery chargers	AC:180-264V | DC:29.2V 5A
1 ethernet switch	48x Ethernet 1 Gbps – 4x SFP

MEDIA SPECS

VIDEO CODEC

Video codec	H265 / HEVC
Profile	Main
Level	6.2
Tier	High
Keyframe Distance (or G.O.P)	1
Bitrate Encoding	CBR (Constant Bitrate)
Max Bitrate	240Mbps
fps	60 fps best, lower also fine

UPLOADING

software	Hive software installed
IP address range	2.0.0.X (all)
belt pack number	X
Belt pack 1 (first Queen)	2.0.0.1