



LED Brick-Intelligent Deep Sea Lighting



2G Engineering's new LED Brick is a low voltage DC powered underwater light designed to withstand and illuminate the subsea environment.

The **intelligent** microprocessor controlled **LED Brick** is fully dimmable, with a range of brightness suitable for close-in inspection, full field illumination, and everything in between.

Need more than the **3000+ lumens** that a single LED Brick produces? Multiple units can be **daisy-chained** together and controlled both independently and as a group over a single **RS-232** comms channel.

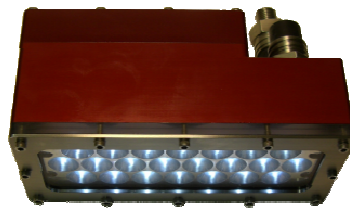
The **flexible** LED Brick can alternatively be controlled via a **0-5V analog** input and still maintains the daisy-chain ability.



The **rugged** LED Brick uses a pressure compensating housing, tested to over **10,000 psi**. The LEDs provide over **50,000 hours** of illumination life and have no fragile filaments. Temperature protection circuits allow use both in water and on land.



FEATURES

-  Fully dimmable
-  **50,000+ hour** Illumination life
-  Serial and Analog Control Interfaces
-  Status feedback
-  Daisy Chainable
-  Over temp protection for on-deck operation
-  Spot and Flood Configurations



-  Hard Anodized Housing available in Multiple Colors
-  High Power LED array available in multiple colors and color temperatures

LED BRICK SPECIFICATIONS

Electrical:

Operating Voltage:	24 Volts DC
Max Power Consumption:	80 Watts
Lamp Type:	High Intensity LED
Color Temperature:	6500 Kelvin
Luminous Flux:	> 3000 Lumens
Color Rendering Index:	Cool White 70, Neutral White-75, Warm White-80
Intensity Control:	Analog 0-5V, RS 232
Beam Angle:	

Control System:

Control Protocol:	
Type:	RS 232
Instructions:	LB-1 Serial Communications
Supported Baud Rates:	300 <-> 115K

Mechanical:

Housing:	Anodized 6061-T6
Size:	5.75"X 2.50" X 2.91"
Weight in Air:	2.78 lbs
Weight inWater:	1.79 lbs
Lid:	Polycarbonate
Connectors:	4 Pin MCBH
Operating Depth:	10,000 PSI

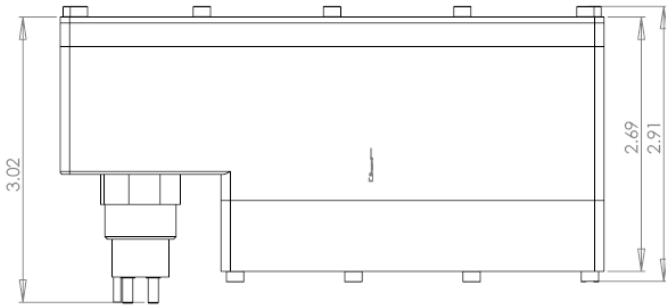


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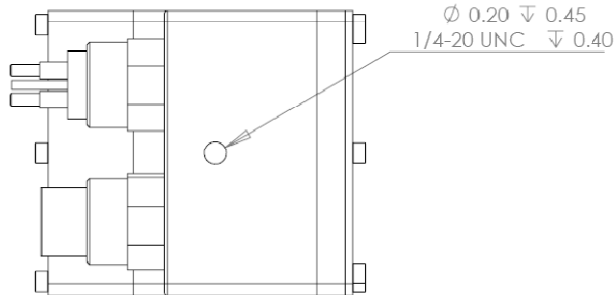
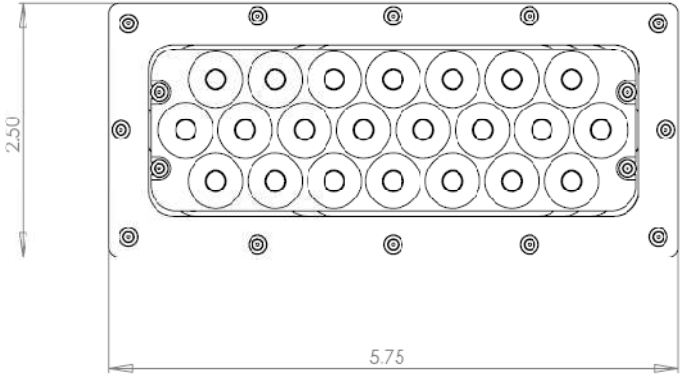


Side View

Top View



End View



Product Options:

- **Beam Angle :**
 - Flood 160° or spot 34°
- **Led Lights Color:**
 - Cool White-CRI 70, Neutral White-CRI 75, Warm White-CRI 80
 - Green, Blue
- **Housing Color:**
 - Natural, Red, Black, Blue
 - Other specialty colors made to order
- **Mounting Bracket**
- **Spares Kit: #1 Electrical**

Quantity:	Part#:	Description:
1	2G.3	LED Brick Power Supply
1	2G.2	LED Brick Light Board
1	2G.1	Nucleus CPU Card

- **Spares Kit: #2 Mechanical**

Quantity:	Part#:	Description:
1	2G.6	Polycarbonate Lens
1	2G.32	Diaphragm
1	2G.35	O-ring

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