



Tested for rugged environments



Developed with NSRDEC



Easy Installation and One time set-up



White and Blackout Lights



Full Dimming Capability



Frontlines Patented Light Technology



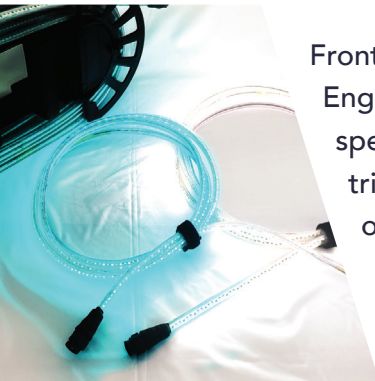
Reduce Military SWaP-C

THE MFlex AT A GLANCE Light System

Frontline Lighting, in collaboration with the US Army Soldier Research Development and Engineering Center has developed MFlex. A patented integrated LED lighting technology specifically designed for military applications. Following rigorous testing and extensive field trials, the MFlex Light System was successfully deployed within the US Military. To date, over 1,000 units have been acquired by military units across the USA and NATO.

The MFlex Light System boasts an ergonomic design that ensures rapid installation and allows the lights to remain mounted even when the shelter is stored, thereby streamlining setup and deployment processes. The system features an integrated power supply and dimmer control, facilitating straightforward operation. Compared to traditional lighting systems, the MFlex significantly reduces shadowing, thereby enhancing operational effectiveness.

Engineered to endure demanding environments, the MFlex Light System offers exceptional reliability in military settings. Its lightweight construction and compatibility with the commonly used BB-2590/U NATO-approved battery make it particularly well-suited for field operations.



MFlex



Standard

DESCRIPTION

Our advanced lighting solution is engineered to offer superior performance and versatility with a total weight of under 18 lbs (8.5 kg). It arrives pre-hung with hangers for effortless installation, ensuring a quick setup process. Designed to provide uniform light distribution without bright spots or a "Dazzle Effect," this system delivers exceptional brightness that outperforms competitive alternatives while maintaining a low heat signature. Manufactured in the USA, it operates using the NATO-approved BB-2590 battery, with the option to use a Frontline Battery Cable for added convenience. In medical applications, the blackout wavelength feature enables medical personnel to clearly differentiate between blood and other bodily fluids in low-light or blackout conditions.

MFLEX KIT BAG

- Made from Water resistant and Rugged Cordura
- Incorporated control box and power supply
- Molle and Velcro attachment system
- Internal component pouch

MFLEX LIGHT

- 40ft / 12m Length of White light, 240LED's p/m
- 40ft / 12m Length of Blackout light, 240LED's p/m
- Built to IP67 Standards
- Patented technology reduces voltage drop over extended lengths 12m < 10% drop

CONTROL BOX

- Toggle between white and blackout lighting
- Control box securely mounted inside bag

HEAVY DUTY CABLE

- Custom moulded connections with incorporated seal-locking system
- IP67 rated components
- 20ft / 6m cable length to light
- Double insulated



SPECIFICATIONS

	MFLEX - 12M	MFLEX - 18M
VOLTAGE	24VDC	24VDC
AMPERAGE - WHITE	3.5A	4A
AMERAGE - BLACKOUT	0.5A	2A
LUMENS - WHITE	10660 LM	10660 LM
LUMENS - BLACKOUT	2518.67 LM	2518.67 LM
LENGTH OF LIGHT STRIP	12M / 40 FT	18M / 60 FT
CCT	4200K	4200K
CRI	94	94
OPERATING TEMP		
Fahrenheit (UL 62)	-40° - 120°	-40° - 120°
Celsius (UL 62)	-40° - 71°	-40° - 71°
STORAGE		
Fahrenheit	-50° - 160°	-50° - 160°
Celsius	-45° - 71°	-45° - 71°
LIFETIME (Hrs)	50,000HRS	50,000HRS
WARRANTY	1 YEAR	1 YEAR

Testing conducted at US Army Combat Capabilities Development Command Soldier Center, Natick Massachusetts

KIT CONTENTS:

	WHITE/BLACKOUT	WHITE
Kit Bag	●	●
Power Supply	●	●
Control Box	●	●
White Light	●	●
Blackout Light	●	
Mounting Kit	●	●
Velcro Straps	●	●
Hanging Clips	●	●
DC battery cable	Optional	Optional

PHYSICAL SPECIFICATIONS:

MFLex-12M Weight	15lb / 6.8kg
MFLex - 18M Weight	18Lb / 8.2kg
Bag Dimensions (in)	11.8 x 15.7 x 4.7
Bag Dimensions (mm)	300 x 400 x 120