



Mask Light Amplified Microphone

Integrated Light Source, Uncompromised Safety

The Gentex Mask Light Amplified Microphone provides an essential source of supplemental cockpit lighting for the F-35, F/A-18 and other fixed wing platforms that use Electret microphone systems. Mask Light Amplified microphone installs neatly into Gentex F-35, MBU-23/P, and other HA/LP Oxygen masks. The mask light delivers a hands-free, Night Vision Imaging Systems (NVIS) compatible light source and high-performance microphone.



KEY FEATURES

Designed for Ease of Use

A hands-free on/off operation and brightness adjustment via lip/tongue switch mounted to the microphone inside the oxygen mask makes the Gentex Mask Light Amplified Mic easy to use with three brightness levels.

Tested and Qualified

The single white LED and filter used by the Gentex Mask Light Amplified Mic meets the requirements outlined in MIL-STD-3009 Night Vision Imaging System (NVIS) Compatible Aircraft Lighting specification.

Simple Installation

No modifications to the oxygen mask are required, making installation quick and simple. A Quick Reference Guide for installation and maintenance is included.

Fully Integrated

Integration of amplified microphone and lip light enable seamless installation into the Gentex F-35, MBU-23/P, and the G010-1375 HA/LP Oxygen Masks.

Airframe Powered

The Gentex Mask Light Amplified Mic is powered by the airframe; no batteries required.

Best-in-Class Lighting Solution

Unparalleled level of safety for aircrew protection. Windblast and ejection seat sled tested to +600 KEAS to ensure the mask light will not be dislodged and become a dangerous projectile during emergency situations. The mask light and microphone are fully integrated into the oxygen mask to reduce the risk of snagging. The unit is sealed providing protection from the external environment.

Compliance

- MIL-STD-810H
- MIL-STD-461G
- MIL-STD-202
- MIL-STD-3009 NVIS Green A
- MIL-STD-1472E Speech Intelligibility
- MIL-STD-202 Insulation Resistance
- IEC 61000-4-2
- REACH and RoHS 1 & 2

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SPECIFICATIONS

Microphone Type: Amplified Electret

Sensitivity @1 kHz: 294 dB SPL input: -24.0 dBV to -18.0 dBV

Frequency Response: -10 dB from rated sensitivity) 300 Hz to 6.5 kHz

Distortion: Less than 1% THD at 94 dB SPL across specified frequency response

Bias Impedance: 100 Ω

Rated Supply Voltage: 22-30 VDC bias voltage

Max Current Draw Light Engaged: 37mA

Brightness Rating: Adjustable between 7-30 lux

Operating Temperature: 20°C to + 55°C

Storage Temperature: -57°C to + 71°C

Humidity: 0% to 95% relative humidity

Altitude Operating: sea level to 32,000ft

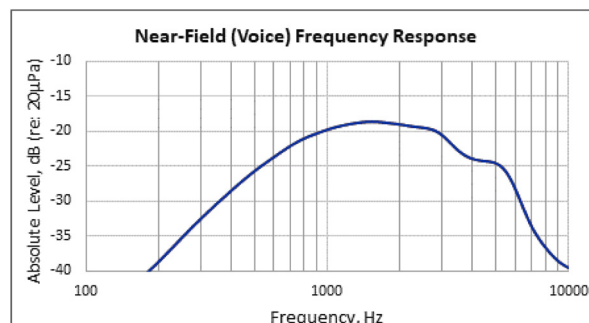
Light Switch Durability: 5,000 ON/OFF Cycles

Light Housing Drop Resistance: 48"

Weight: < 55g

Color: Lusterless black

Microphone Connector: U-173U



ORDERING INFORMATION

Part Number	Description
1001682-00	Mask Light Amplified Microphone Assembly
1001682-01	External Assembly, Mask Light Amplified Microphone
1001682-02	Internal Assembly, Mask Light Amplified Microphone
1002681-00	2-56 UNC-2A x .88 LG Stainless Steel Screw (bag of 10)
1002682-00	Quick Reference Guide, Mask Light AM

Contact Us

Gentex is committed to designing and manufacturing advanced performance capabilities for worldwide aircrew personnel. For more information on the Gentex Mask Light Amplified Mic, please contact Gentex at sales@gentexcorp.com. Like us at facebook.com/Gentexcorp