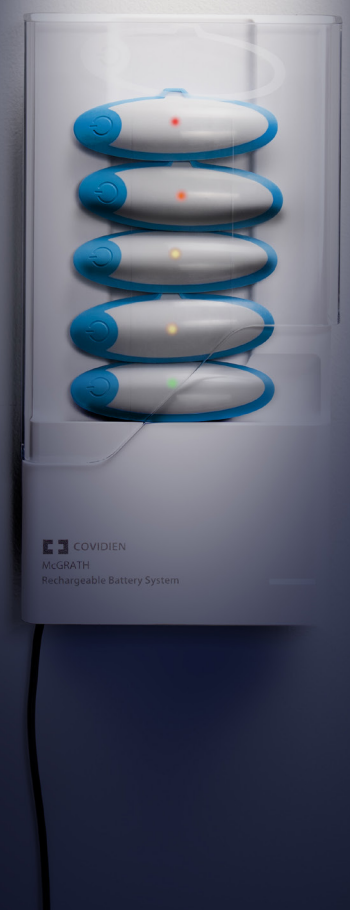
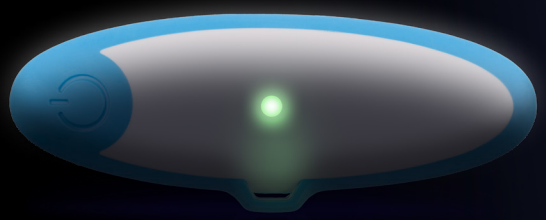
Medtronic

McGRATH™ rechargeable battery system

Always ready, always reliable

A rechargeable battery that works as hard as you do.





For effective airway management, clinicians need continuous access to a fully charged power source that ensures their video laryngoscope is ready to use – whether it's a planned procedure or an emergency intervention. The McGRATH™ rechargeable battery system powers the McGRATH™ MAC video laryngoscope to support higher first-pass success rates† while providing hospitals with long-term cost savings.[1-4]

Unlike some video laryngoscopes with batteries built-in the handles or screens, the McGRATH™ rechargeable battery is removable. The charging station can charge up to five batteries simultaneously – so there's no downtime waiting for the device to charge. Clinicians can swap and go, even with one hand, allowing them to stay focused on patient care.[5] Reliable, and always ready, the McGRATH™ rechargeable battery system empowers clinicians to stay prepared for every procedure.

† When compared to direct laryngoscope and other video laryngoscopes.

Why choose McGRATH™ rechargeable battery?

Continuous power:

The McGRATH™ rechargeable battery system allows you to charge up to 5 batteries simultaneously without the need to dock the handle or monitor. Featuring a rigid tab for quick and single-handed removal, the battery is designed to minimize device downtime.[5]

Proactive alerts:

The LED on McGRATH™ rechargeable battery system flashes purple when approaching battery useful life limit, protecting patients from the unnecessary risk of battery failure mid-procedure.[5]

Accurate power monitoring:

Features a minute-by-minute battery time countdown on the screen, ensuring an accurate measure of the remaining battery time.[5]

Visual battery status:

When in the charger, the McGRATH™ rechargeable battery has an LED indicator that provides a visual indication of how much power remains in the battery, eliminating guesswork and allowing clinicians to identify a ready-to-use battery.[5]

Long lifespan:

A single McGRATH™ rechargeable battery can last 10,000 minutes through the course of its useful life.[5]

Cost efficiency:

Transitioning to the McGRATH™ rechargeable batteries is expected to provide hospitals with long-term cost saving.[†,3,4]

Sustainability:

The new McGRATH™ rechargeable battery lowers the environmental impact of intubation by reducing the need for disposing single-use batteries and cutting waste generation by 98.7%.[‡,§,4] Plus the packaging is 100% recyclable, making it a more sustainable choice for operating rooms.[‡,5]

† Expected cost-savings based claim based on an internal analysis conducted by Medtronic.

‡ When compared with the McGRATH™ disposable battery.

§ Based on a standardized operation runtime of 10,000 minutes, disposing the McGRATH™ rechargeable battery generate 24.72 gr waste, while disposing the McGRATH™ disposable batteries generate 1098.5 gr waste.

McGRATH™ rechargeable battery vs. McGRATH™ disposable battery

Feature	Rechargeable battery[6]	Disposable battery[7]
Useful life	Up to **10,000 minutes**	**250 minutes**
Operating time	**120 minutes**	**250 minutes**
Removal tab	**Rigid –** making it easy to remove the battery from the device	Flexible
On/Off button	Responsive	Firm press
Charge status	LED indicator provides battery charge status	N/A

Technical specifications[6]

McGRATH™ rechargeable battery	
Size	85 mm x 32 mm x 19 mm
Weight	25 g
Battery type	Rechargeable Li-ion Battery
Capacity	520 ±20 mAh, 1.97 Wh
Protection	IP33
Power	2 W
Display	Color LED indicator
Nominal voltage	3.8 VDC
Output voltage	3~4.35 VDC
Electromagnetic emissions	CISPR 11 Class B, Group 1
Electromagnetic immunity	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8
Useful life	4 years or a maximum of 10,000 minutes operating time
McGRATH™ multi-battery charger	
Size	245 mm x 133 mm x 46 mm
Weight	845 g
Power supply	Proprietary McGRATH™ power supply
Protection	IP22
Charging output power	9 W (Max)
Display	Color LED indicator
Electromagnetic emissions	CISPR 11 Class A, Group 2; IEC 61000-3-2 Class A, IEC 61000-3-3
Electromagnetic immunity	IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, RFID tag interference test (1 mm to 25 mm)
Useful life	4 years
VHB double sided tape	
Useful life	2 years
Power supply	
Input voltage and frequency	100~240 VAC, 50 Hz / 60 Hz
Output voltage and power	15 VDC, 18 W
Interchangeable AC adapter plugs	Note: Choose the appropriate plug per country.

For trained personnel only. Adverse events reported in association with the use of the rechargeable battery during laryngoscopy and intubation could be exposure to body fluids, hypoxia, delay of treatment, tissue injury or electric shock. If a serious incident related to the device occurs, immediately report the incident to Medtronic and the applicable competent authority.

1. Kriege M, Noppens RR, Turkstra T, Payne S, Kunitz O, Tzanova I, Schmidtmann I; EMMA Trial Investigators Group. A multicentre randomised controlled trial of the McGrath™ Mac videolaryngoscope versus conventional laryngoscopy. *Anaesthesia*. 2023 Jun;78(6):722-729. doi: 10.1111/anae.15985. Epub 2023 Mar 16. PMID: 36928625.
2. Kleine-Brueggeney M, Greif R, Schoettker P, Savoldelli GL, Nabecker S, Theiler LG. Evaluation of six videolaryngoscopes in 720 patients with a simulated difficult airway: a multicentre randomized controlled trial. *Br J Anaesth*. 2016 May;116(5):670-9. doi: 10.1093/bja/aew058. PMID: 27106971.
3. https://www.ispor.org/heor-resources/presentations-database/presentation-cti/ispor-2025/poster-session-4/return-on-investment-and-waste-considerations-for-the-implementation-of-rechargeable-batteries-in-video-laryngoscopes.
4. Medtronic internal file. RE00569390.
5. Medtronic internal file. RE00270408.
6. McGRATH™ rechargeable battery, Instruction For Use.
7. McGRATH™ disposable battery, Instruction For Use.

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