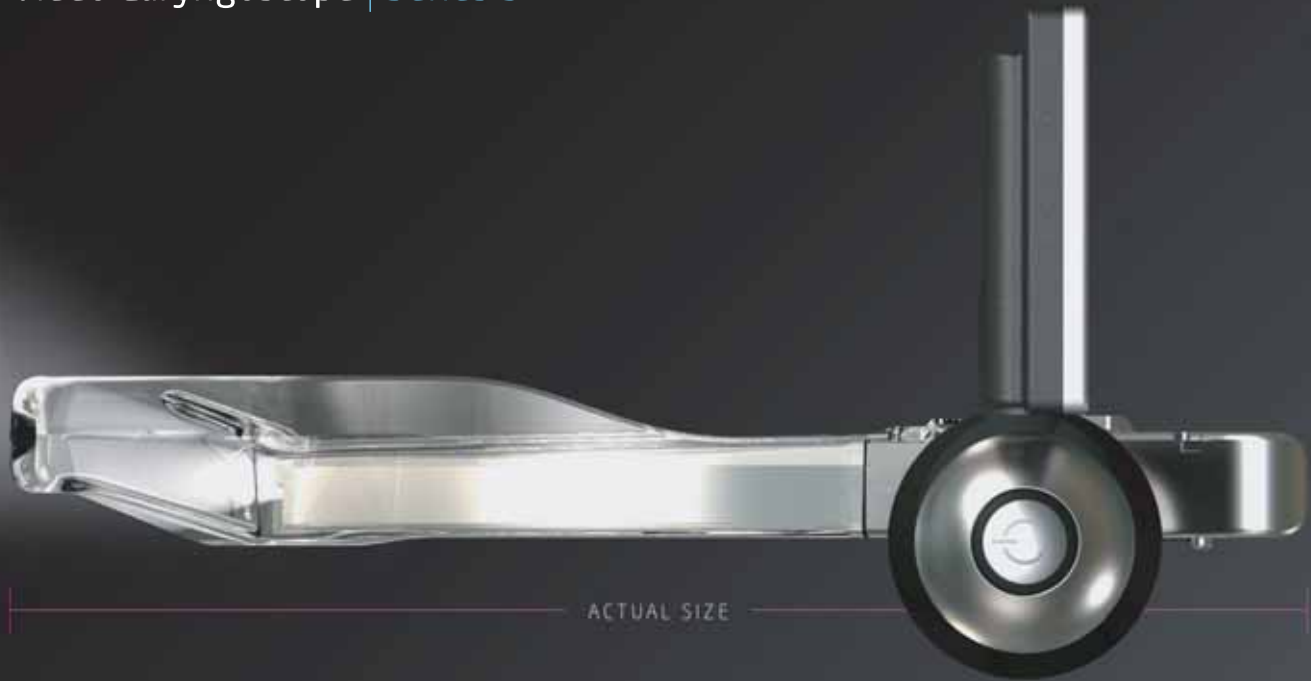


McGRATH[®]

Video Laryngoscope | Series 5



Variable Length CameraStick™

Guaranteed Sterility

2m Impact Tested

True Portability

AIRCRAFT
MEDICAL



Aircraft Medical is a specialist medical device company based in Edinburgh (Scotland) with an expanding global distribution network. Founded in 2001 by industrial design entrepreneur Matt McGrath, Aircraft Medical specializes in the design and manufacture of hand-held medical devices.

The award winning **McGRATH®** Series 5 Video Laryngoscope is the result of extensive research in close consultation with over 500 healthcare institutions around the world.



Distribution

For purchasing information, or to arrange a product demonstration please call :

+44 131 718 6042

or visit

www.aircraftmedical.com

Specifications / Order Codes

McGRATH®	Series 5 Handle & CameraStick™	McGRATH®	Disposable Blade (dB5)
Order code:	500-000-000	Order code:	550-006-000 (30 pack)
Size:	200mm x 50mm x 150mm	Size	110mm x 12mm x 15mm
Weight:	0.325kg	Material	Medical grade optical polymer
Power:	AA Battery (rechargeable)	Packaging	Packaged sterile (for single use only)
Light source:	High intensity LED's		
Display:	Color LCD (1.7" diagonal)		
Camera:	VGA		
Protection:	IP65		
Materials:	Medical grade Stainless Steel and thermoplastics		

Variable Length CameraStick™

Its variable length CameraStick™ means the **McGRATH®** can be used in all patients upwards from 15kg, and in all clinical situations without the need for extra accessories.

Guaranteed Sterility

A single-use optical blade is supplied sterile to help eliminate cross contamination, and means the **McGRATH®** is always ready to use.

2m Impact Tested

Aircraft design philosophy delivers a truly robust product. Drop tested at 2m the **McGRATH®** is designed to survive all critical care environments.

True Portability

Use of one single AA Battery and no external cables or wires means the **McGRATH®** is the first truly portable Video Laryngoscope weighing in at only 325g.



"I was given a **McGRATH**[®], which I opened Monday, April 2. I came to work on Tuesday and found I had been assigned the following patient: 301 lbs, 6'2", OSA, 7 cardiac stents, COPD, Insulin dependent diabetes, Mallampati 3, limited ROM of the neck, Edentulous, Neck circumference 65 cm, GERD-to pharynx daily, High anxiety. I did my routine topical anaesthesia... placed the **McGRATH**[®] (fully extended blade) and to my surprise, immediately found myself looking at the vocal cords (in fact, it was so fast and easy, I doubted what I was seeing). LTA was used to place lidocaine on and below the cords. **McGRATH**[®] was removed for a minute. I returned the **McGRATH**[®], saw cords effortlessly again, and placed the ETT 8.0mm standard PVC, malleable stylet, which I drew back as the tip entered the cordsthis was truly my introduction to the **McGRATH**[®]"

Dr William H. Rosenblatt
Professor of Anaesthesia and Surgery
Yale University School of Medicine, New Haven, USA

"The **McGRATH**[®] is the way forward in video laryngoscopy and has huge potential success as a training tool and teaching aid"

Dr. David Vaughan, Consultant Anaesthetist
Northwick Park Hospital, Harrow, UK
(Difficult Airway Society)

Up to 2 hours

A single rechargeable AA battery (2500mAh) will give up to 2hrs usage when fully charged. A standard alkaline battery will give up to 1hr when new. Minimal set up or lag time means it is always ready for use.



CameraStick™ & Optical Blade

An adjustable length CameraStick™ means the **McGRATH®** can be used in both adult and paediatric procedures from circa 15kg upwards. This gives the user maximum flexibility and avoids complications of correct laryngoscope selection. Blind intubations are a thing of the past. The improved access and vision of the larynx has been demonstrated to change a Cormack & Lehane Grade 3 to a Grade 1 view. The blade curvature and on-screen visualization means significantly less force need be applied to the upper airway, helping to avoid soft tissue trauma and dental damage.

13mm

At only 13mm in depth the slim blade profile allows easy oral insertion, even in narrow mouth openings and cases of cervical spine immobilization where neck hyperextension is not possible.



Blade fit

The **McGRATH®** utilises a single-use blade made from a robust optical polymer. The blade sleeves over the stainless steel CameraStick™ giving absolute rigidity.

CLINICAL
REFERENCE

“On behalf of the Department of Anesthesiology, I would like to thank you and LMA(NA) Inc. for introducing the **McGRATH**® Video Laryngoscope to our department. What an incredible piece of equipment the **McGRATH**® laryngoscope is. We have used it approximately 20+ times without a failed Intubation. It is so simple to use. We have turned away from using our [REDACTED] system and now are using this as our first choice in difficult intubations. I just thought you would like to get a little feedback on your device”

Dr Joseph Fitzgerald, Consultant Anaesthetist
Evergreen Healthcare, Kirkland, WA U.S.A

CLINICAL
REFERENCE

“Yesterday a colleague of mine used the **McGRATH**® in a very difficult case: Mallampati 3, every other trick failed. She inserted the device and low and behold, successful intubation within 20 seconds”

Dr Jaap de Vries, Consultant Anaesthetist
Mesos Medisch Centrum, Utrecht, The Netherlands

CLINICAL
REFERENCE

“The **McGRATH**® represents the most significant advancement in laryngoscope design since the 1940's and could revolutionize the global practice of intubation”

Dr Gary Enever, Consultant Anaesthetist
Royal Victoria Infirmary, Newcastle Upon Tyne, UK

Viewing and training

A compact 1.7" LCD monitor gives a crystal clear view of the vocal cords and laryngeal inlet. The screen angle can be adjusted to allow the user to intubate in an upright and comfortable position. The LCD has a wide viewing angle meaning others can fully observe the procedure, helping to reduce the 'learning curve' in the training environment.



Variable length blade

The **McGRATH®** is the world's first and only laryngoscope to feature a variable length blade. This patented system means the device can be used on a variety of patients from children (5yrs +) to large adults. This removes the complication of sourcing a different blade for a particular patient, or having to change blades during a procedure due to an irregular or unexpected anatomy.



Easy access

During Bariatric and Obstetric cases, or other procedures where space is limited, the clinician may insert the CameraStick™ and blade assembly into the upper airway prior to attaching the handle to avoid interference with the patient's chest.

CLINICAL
REFERENCE

“We have performed an intubation in an **awake obese patient** - with great success! The patient did not cough once during the procedure and after spontaneous breathing being intubated, the patient was put to sleep. We have also tested the scope on other patients - all procedures with success. ”

Dr Billy B. Kristensen Consultant Anaesthetist
Hvidovre Hospital, Copenhagen, Denmark

CLINICAL
REFERENCE

“I have just intubated my first patient with the use of the **McGRATH®** Video Laryngoscope - the test was a complete success - **the learning curve must be very short!** Time to laryngoscopy and time to intubate were just a few seconds!”

Dr Jakob Kirkegaard Skou, Consultant Anaesthetist
North Aalborg Hospital, Denmark

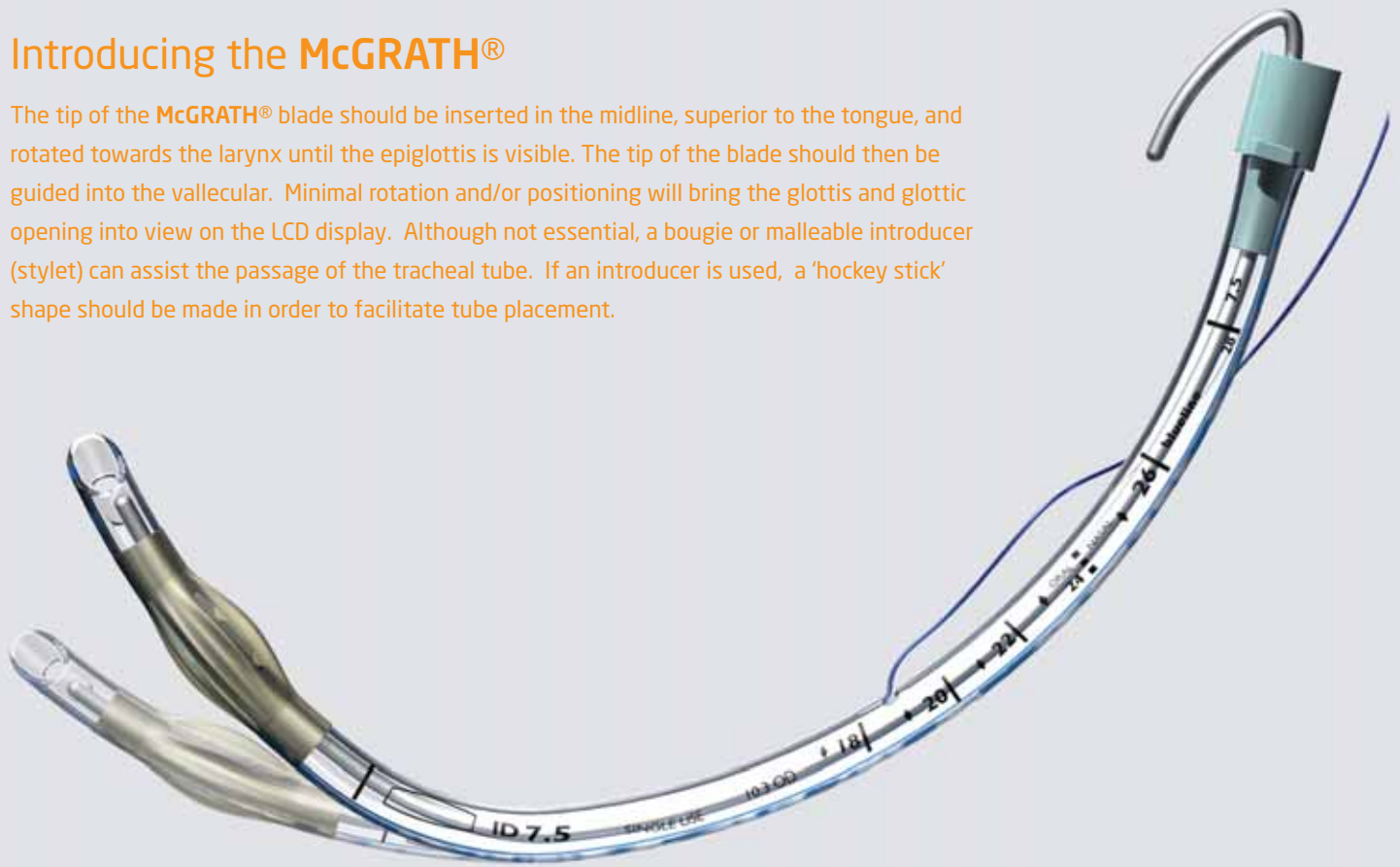
CLINICAL
REFERENCE

“A **previously failed intubation** and C&L Grade 3 was **converted to a Grade 1** view with the **McGRATH®** Series 5 and the patient was easily intubated. We have demonstrated its potential use as a difficult intubation tool. The **McGRATH®** is a practical addition to the difficult intubation trolley.”

Dr Pam Doherty, Dr Neil O'Donnell, Dr John Henderson
Consultant Anaesthetists
Western and Gartnavel Hospitals, Glasgow, UK

Introducing the McGRATH®

The tip of the **McGRATH®** blade should be inserted in the midline, superior to the tongue, and rotated towards the larynx until the epiglottis is visible. The tip of the blade should then be guided into the vallecular. Minimal rotation and/or positioning will bring the glottis and glottic opening into view on the LCD display. Although not essential, a bougie or malleable introducer (stylet) can assist the passage of the tracheal tube. If an introducer is used, a 'hockey stick' shape should be made in order to facilitate tube placement.



Reusable handle and CameraStick™

The ease of changing the single-use blade and cleaning of the reusable handle and CameraStick™ means there is very little down time between procedures.



Disposable blade

The low cost single-use blade is supplied sterile to help eliminate the risk of cross infection, and helps to reduce sterilization time and costs.



Designed for Impact

Healthcare facilities are harsh environments for equipment, and delicate devices are expensive to maintain and are often not available when needed. The **McGRATH®** Series 5 incorporates 3 lines of defense to stand up to the challenges of this tough environment and work reliably and cost effectively time after time.

1 Force displacement (Deflecting forces)

The first line of defense is deflection of force on impact. The Series 5 displaces the initial impact force by 'deflection.' The unique cantilevered display pivots in two dimensions so that device impact in this area can be reduced by 70%. Likewise, the CameraStick™ is capable of deflecting force with its linear movement, and the blade is designed with structural elasticity to deflect force on impact.

2 Shock absorption (Elastic properties)

The **McGRATH®** handle is enclosed in a 5mm jacket of robust medical grade rubber. When the device is dropped and lands on the handle's rubber surface the forces are almost immediately absorbed. When the device lands on the display or blade, the forces are significantly reduced by the movement of those parts, and dispersed altogether on the second contact (second bounce) through the handle. The display casing has been engineered with further impact protection so that even at the outer limits of its pivoting action it can flex to disperse any remaining forces.

3 Strength & build quality (Materials & construction)

The third line of defense is the intrinsic structural strength of the **McGRATH®**. No shortcuts have been taken in the design process, its materials have been carefully selected and constructed for optimal structural performance. Should the **McGRATH®** be subjected to an impact force so great that it causes defense lines 1 and 2 to yield, then it is down to the last line of defense - pure strength and structural integrity. The international standard (BS EN 60601-1) requires a device to endure a compression force of 45N - the **McGRATH®** handle and CameraStick™ have been successfully compression tested at **1000N**.

2
meter

Series 5
test unit

Display is encapsulated in mineral filled engineering polymer and polycarbonate shell. Its X and Y movement deflects up to 70% of impact forces.

Stainless Steel top cap

Robust rubber jacket encapsulates internal steel chasis, and acts as a shock absorber on impact.

Stainless Steel CameraStick™ avoids patient contact when fitted within a channel in the blade. The **McGRATH®** blade is manufactured from a structural polymer - it is almost impossible to break it!

The **McGRATH®** has successfully passed structural loading tests with 35kg applied near the tip of the blade, and 95kg at the midpoint of the CameraStick™.

The **McGRATH®** Series 5 Blade and CameraStick™ construction is as strong (or stronger) than the age-tested traditional Macintosh type laryngoscope.

The **McGRATH®** does not need to displace the patient's anatomy to achieve direct line of sight to the larynx, this being achieved by the onboard video system. Nevertheless, the Stainless Steel CameraStick™ provides optimal structural rigidity.

Drop tests

The **McGRATH®** Series 5 has passed extreme impact and compression tests and exceeds international standard BS EN 60601-1:1990 "Safety Requirements for Medical Electrical Equipment." The Display and CameraStick™ are designed to deflect impact force. The tilting and rotating action of the display is designed to displace up to 70% of the force on impact.

AIRCRAFT
MEDICAL



AIRCRAFT
MEDICAL



Designed & manufactured by

Aircraft Medical Ltd
10 Saint Andrew Square
Edinburgh
EH2 2AF
United Kingdom
Tel: +44 131 718 6042
Fax: +44 131 718 6100
www.aircraftmedical.com

'McGrath' and 'Aircraft' are registered trademarks of Aircraft Medical Ltd
'CameraStick' is a trademark of Aircraft Medical Ltd
International patents pending · COPYRIGHT 2007 © Aircraft Medical Limited