ACUMED

LARYNGOSCOPES CATALOGUE

Provides light where, operation light doesn't



Serving Healthcare Worldwide Since 1984



PERFORMANCE

Diagnostic performance takes top priority with our instruments – they should support the earliest and most accurate diagnosis possible during anesthesia. That's because many medical examinations focus first on early detection of diseases and second on implementing the right therapy with the most precise diagnosis possible.

FUNCTION

Our instruments can be adjusted to offer optimal results in every examination situation. For instance, all our larygoscope handles and blades are designed and manufacutred according to international standards ISO7376 and compatible with all handles and blades which are designed according to international standards ISO7376.

DURABILITY

As a premium supplier, we ensure that our quality concept is also defined by product durability – which is not necessarily a given in this day and age. If a ACUMED instrument is used correctly, it will continue to work just as well as on the first day for many years to come. And that's with the same level of performance and reliability as the day it came out of the box. There's good reason why ACUMED offers a guarantee of five years on the materials and craftsmanship of all products.*

Each diagnostic instrument is developed with this three-part quality promise in mind from the very start.

And every ACUMED instrument is put through its paces, with a key focus on these three quality dimensions.

All ACUMED instruments are also technically advanced and boast extreme precision and an ergonomic design.

In reality, we not only strive for quality, but also demand the very best quality possible of ourselves. And that's what makes us and our diagnostic instruments so unique.







Serving Healthcare Worldwide Since 1984

















MEGARAY Blades

MEGARAY blades has two types MEGARAY Blades and FLEXIRAY blades.

Acumed® MEGARAY/FLELXIRAY blades has been designed with enclosed fiber optic core, as the fiber bundle is sealed within the blade. There are no crevices to trap dirt or body fluids. This system allows to easily clean the blade without any disassembly.

Acumed® is using 4.5mm fiber optic bundles of high quality for maximum light during illumination. But ends of fiber core is highly polised for best light transmission.

FLEXIRAY blades are designed for difficult intubation, its tilting tip raises the epiglottis indirectly to offer comfortable access to the trachea for intubation.

All our MEGARAY/FLEXIRAY blades are designed under international standards Green System ISO 7376/3 and compatible with all world class Green System ISO 7376/3 handles. Blades already have Green Indication on its back. All our blades are autoclaveable.

MEGARAY/FLEXIRAY blades have lower profile for best visualization during intubation.









Fully enclosed Fiber Optic Core



Tilting Tip



Risk free lever mechanism

Fiber Optic Laryngoscope Blades



Macintosh Fiber Optic Blades

Enclosed Tube

These blades are designed with enclosed fiber optic bundle, has no cavities to trap dirt or body fluids, thus allowing the blade to be easily cleaned. This contributes mostly to elimination of cross-infection.

Reference No.	Size	Length A	Length B
ALF-01-0	0	82 mm	14 mm
ALF-01-1	001 17	93 mm	14 mm
ALF-01-2	2	115 mm	19 mm
ALF-01-3	3	135 mm	20 mm
ALF-01-4	4	155 mm	21 mm
ALF-01-5	5	174 mm	22 mm



MEGARAY® Macintosh Blades provide 4.5mm fiber bundle for maximum illumination, where as Miller Blades provide 3.5mm fiber bundle for maximum illumination

Miller Fiber Optic Blades

Enclosed Tube

These blades are designed with enclosed fiber optic bundle, has no cavities to trap dirt or body fluids, thus allowing the blade to be easily cleaned. This contributes mostly to elimination of cross-infection.

MEGARAY® Miller Fiber Optic Blade			
Reference No.	Size	Length A	Length B
ALF-02-00	00	66 mm	11 mm
ALF-02-0	0	80 mm	11 mm
ALF-02-1	1	102 mm	12 mm
ALF-02-2	2	155 mm	13 mm
ALF-02-3	3	192 mm	14 mm
ALF-02-4	4	205 mm	18 mm



Flexiray Fiber Optic Blades

Enclosed Tube

FLEXIRAY blades are designed with enclosed fiber optic bundle for difficult intubation, these has a tip which is adjustable. A lever controls the tip angle during intubation to lift the epiglottis, it help to giving a clear view of the vocal cord.

FLEXIRAY® Macintosh Fiber Optic Blade			
Reference No.	Size	Length A	Length B
ALF-03-2	2	115 mm	19 mm
ALF-03-3	3	135 mm	20 mm
ALF-03-4	4	155 mm	21 mm

- · Enclosed fiber core with 4.5mm diameter.
- 6500 fiber strands.
- · High quality fiber ensuring extra ordinary light transmission.
- 6000 lux with 2.5 Volts Xenon or Halogen bulb.
- 13000 lux with 3.5Volts Xenon or Halogen bulb
- · No sharp edges, Low profile curved blades.
- Free maintenance.
- · Autoclavable upto 134 C approximately 4000 times.
- · No adverse effect in using ethylene oxide sterilization (ETO), steam autoclaving or by soaking in Sparax or Cidex.
- In accordance with ISO 7376/3
- Compatible with all handles manufactured under international standard ISO 7376/3







EXRAY Blades

Acumed® EXRAY blades with Classic Exchangable Tube Blades (Screw System).

EXRAY blades are designed with an exchangable fiber optic light tube. Our high quality blades offer less obstructed view & easier access for small mouth opening. All blades have well maintained smooth edges.

All our EXRAY blades are designed under international standard Green System ISO 7376/3 and compatible with all world class Green System ISO 7376/3 handles. Blades already have Green Indication on its back. Three ball bearings are fixed on blades for best fitting on handles. Fiber Light Tubes are highly polished for out standing light transmission.

Acumed® Classic EXRAY blades need a screw driver to disassemble the light tube. High Quality Stainless Steel is used to manufactured the blades.







Green Indication Color



Screw System



Fiber Light Tube

Fiber Optic Laryngoscope Blades



Macintosh Fiber Optic Blades

Classic Exchangeable Tube (Screw System)

English Profile Blade with gental soft carvature, and a flenge starting at the heel of the blade and continuing to the tip at its narrow.

EXRAY® Machintosh Fiber Optic Blade			
Reference No.	Size Lei	Length A	Length B
ALF-04-0	0	80 mm	13 mm
ALF-04-1	1-(0	92 mm	18 mm
ALF-04-2	2	100 mm	18 mm
ALF-04-3	3	130 mm	18 mm
ALF-04-4	4	155 mm	22 mm
ALF-04-5	5	175 mm	24 mm



Miller Fiber Optic Blades

Classic Exchangeable Tube (Screw System)

It is the most popular straight blade. Flange size is reduced to minimize trauma and the curve at beak or tip is extended to improve lifting of epiglottis.

EXRAY® Miller Fiber Opti			
Reference No.	Size	Length A	Length B
ALF-05-00	00	65 mm	10 mm
ALF-05-0	0	78 mm	11 mm
ALF-05-1	1	102 mm	11 mm
ALF-05-2	2	153 mm	12 mm
ALF-05-3	3	195 mm	12 mm
ALF-05-4	4	205 mm	16 mm



Wisconsin/Foregger Fiber Optic Blades

Classic Exchangeable Tube (Screw System)

Foregger (WISCONSIN) blade has straight spatula and flange that expands slighty towards distal portion of the blade. Due to this feather the visual field increases and reduce possibilty of trauma during intubation. The distal portion is wider and formed slighty to the right to better adapt to lifting the epiglottis.

EXRAY® Wisconsin Fiber Optic Blade			
Reference No.	Size	Length A	Length B
ALF-06-0	0	80 mm	11 mm
ALF-06-1	1	94 mm	11 mm
ALF-06-2	2	102 mm	13 mm
ALF-06-3	3	132 mm	16 mm
ALF-06-4	4	160 mm	16 mm
ALF-06-5	5	199 mm	19 mm



- · Replacable light guide.
- · 3ødiameter insert fiber optic bundle.
- 3000+ fiber strands.
- High quality fiber ensuring extra ordinary light transmission.
- 3500 lux with 2.5Volts Xenon or Halogen bulb.
- · 10000 lux with 3.5Volts Xenon or Halogen bulb
- · No sharp edges, curved blades.
- · Free maintenance.
- · Autoclavable upto 134 C approximately 4000 times.
- No adverse effect in using ethylene oxide sterilization (ETO), steam autoclaving.
- In accordance with ISO 7376/3
- Competiable with all handles manufactured under international standard ISO 7376/3





WARMRAY Blades

WARMRAY laryngoscope blades with LED illumination convence their interesting cost effectiveness due to an almost ultimate service life. Well through our design guarantees simple handling in daily use.

Acumed® WARMRAY laryngoscope blades are made of high grade non megnit non rusty Stainless Steel AISI 303/304 material. Matt finish prevent reflection, all blades have smooth edges.

All blades come with quick to remove bulb at the front blade has good illumination 2.5V vacuum bulb. **Acumed®** all WARMRAY blades are competible to all ISO 7376/1 standard handles.







Easy replacable LED 2.5V bulb



Connecting point to place to get blade in the handle

Conventional Laryngoscope Blades



Macintosh Conventional Blades

LED Light Bulb

English Profile Blade with gental soft carvature, and a flenge starting at the heel of the blade and continuing to the tip at its narrow.

WARMRAY® Macintosh Conventional Blade			
Reference No.	Size	Length A	Length B
ALC-07-0	0	80 mm	13 mm
ALC-07-1	1-(0)	92 mm	18 mm
ALC-07-2	2	100 mm	18 mm
ALC-07-3	3	130 mm	18 mm
ALC-07-4	4	155 mm	22 mm
ALC-07-5	5	175 mm	24 mm



WARMRAY® Blades provices an easily replacement of bulbs.



Miller Conventional Blades

LED Light Bulb

It is the most popular straight blade. Flange size is reduced to minimize trauma and the curve at beak or tip is extended to improve lifting of epiglottis.

WARMRAY® Miller Conventional Blade			
Reference No.	Size	Length A	Length B
ALC-08-00	00	65 mm	10 mm
ALC-08-0	0	78 mm	11 mm
ALC-08-1	1	102 mm	11 mm
ALC-08-2	2	153 mm	12 mm
ALC-08-3	3	195 mm	12 mm
ALC-08-4	4	205 mm	16 mm



WARMRAY® Blades specially designed patterns for better connection with the handle.

Wisconsin/Foregger Conventional Blades LED Light Bulb

Foregger (WISCONSIN) blade has straight spatula and flange that expands slighty towards distal portion of the blade. Due to this feather the visual field increases and reduce possibilty of trauma during intubation. The distal portion is wider and formed slighty to the right to better adapt to lifting the epiglottis.

WARMRAY® Wisconsin Conventional Blade				
Reference No.	Size	Length A	Length B	
ALC-09-0	0	80 mm	11 mm	
ALC-09-1	1	94 mm	11 mm	
ALC-09-2	2	102 mm	13 mm	
ALC-09-3	3	132 mm	16 mm	
ALC-09-4	4	160 mm	16 mm	
ALC-09-5	5	199 mm	19 mm	

- · 2.5V LED bulb can be easily replaced.
- Autoclavable upto 134 degree approximately 4000 times.
- · No adverse effect in using ethylene oxide sterilization (ETO), steam autoclaving.
- · Round edges prevent from injury risk,
- · Compatible with ISO 7376/1 standard handles.
- · Compatible will all handles according to international standard.
- · Matt finished to reduce glare.



LED® Laryngoscope Bulbs		
Size		
Small - Thread 5-72UNC		
Large - Thread 8-32UNC		



Disposable Series



D'RAY Blades

Acumed® D'RAY blades are most prominent single use fully metal fibre optic blades. Our specially designed plastic heel give strengt to blade like Reusable blades. It is the most strongest blade in the market.

D'RAY blades build with high quality stainless steel AISI 304. D'Ray blades are specialy desinged as World's best low profile blades, this provides best visualization and easier access for small mouth opening and prevent from possibility of dental damages.

Special desinged blades save the back reflection during intubation. Outlet point has been covered maximum to concentrate the visualization.

All our D'RAY blades are designed under international standard Green
System ISO 7376/3 and compatible with all world class Green System
ISO 7376/3 handles. Three ball bearings are fixed on blades for best fitting
on handles. High quality polished ACRYLIC light guide for best light transmission.

All our disposable blades are also available with aluminium heel.





Specially Designed pattern to prevent back reflection



Low profile blades with aluminium heel



High Quality Polished Acrylic for best light transmission

Fiber Optic Disposable Laryngoscope Blades



Macintosh Disposable Blades

Fiber Optic - Plastic Heel

English Profile Blade with gental soft carvature, and a flenge starting at the heel of the blade and continuing to the tip at its narrow.

	D'RAY® Macintosh Disposable Blade			
Reference No.	Size	Length A	Length B	
ALD-10-0	0	80 mm	13 mm	
ALD-10-1	1 \ 9	92 mm	18 mm	
ALD-10-2	2	100 mm	18 mm	
ALD-10-3	3	130 mm	18 mm	
ALD-10-4	4	155 mm	22 mm	
ALD-10-5	5	175 mm	24 mm	



D'RAY® Blades with highly polished acrylic rod for best light visiuals.

BES I SELLER

Miller Disposable Blades

Fiber Optic - - Plastic Heel

It is the most popular straight blade. Flange size is reduced to minimize trauma and the curve at beak or tip is extended to improve lifting of epiglottis.

D'RAY® Miller Disposable Blade			
Reference No.	Size	Length A	Length B
ALD-11-00	00	65 mm	10 mm
ALD-11-0	0	78 mm	11 mm
ALD-11-1	1	102 mm	11 mm
ALD-11-2	2	153 mm	12 mm
ALD-11-3	3	195 mm	12 mm
ALD-11-4	4	205 mm	16 mm



D'RAY® Blades specially designed patterns to prevent back reflections.

Flexiray Disposable Blade

Fiber Optic - Aluminium Heel

FLEXIRAY blades are designed with OCTYlic for difficult intubation, these has a tip which is adjustable. A lever controls the tip angle during intubation to lift the epiglottis, it help to giving a clear view of the vocal cord.

D'RAY® Flexiable Disposable Blade			
Reference No.	Size	Length A	Length B
ALD-12-2	2	155 mm	13.5 mm
ALD-12-3	3	192 mm	13.5 mm
ALD-12-4	4	205 mm	17 mm

- · Suitable for everyday hospital use.
- · Aluminium heel gives strongest strength.
- · World's best and most demanding low profile blades.
- Build with AISI 304 Stainless Steel.
- Highly polished Acrylic gives brilliant light transmission.
- 4000 Lux / 2.5V Xenon / Helogen bulb.
- No sharp edges, curved blades.
- Maximum covered outlet point of acrylic.
- No back reflection.
- In accordance with ISO 7376/3
- Competiable with all handles manufactured under International Standard ISO 7376/3







Fiber Optic Handles

Light Source (Handle) is an important part of laryngoscopes. Only when the end user has an optimal view can be successful. Therefore Medcave has developed lighting systems that improves the lighting conditions.

All Acumed® handles are compatible with ISO 7376/3 Green System. All handles are made according to the international standard that why, they are easy compatible with MEGARAY, EXRAY, D,RAY and all green system blades. We offer all handles in Brass and Stainless Steel AISI 303 materials.

Acumed® has just develop the NiMH charging station for NiMH chargeable battery handles with 2.5V and 3.5V. There is breathing LED indication during charging. When it finish charging arcs of acrylic facilitate with LED lights get constant.

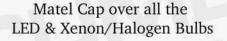
New improved illumination is backed by Super LED Laryngoscope handles. This series has grooved look on the gripping area of handle. LED handles has 50000 hours life. Simply its the world's best light at the moment. There is no need change the bulb.

Xenon/Halogen bulb stands for 20 hour life. Bulbs easily can be replaced. Our special metal cap give more durability and life to the lighting system. Xenon, Halogen Laryngoscopes handles has classic knurled finish on the gripping area.













LED Handles has grooved surface Xenon/Halogen Handles has kurnled surface



Battery pack has two side spring for safe holding in handles.

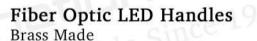












Acumed Easy Clean LED Laryngoscope Handle was developed to allow even simpler, faster and safer hygienic reprocessing of the handle - no complex disassembling and assembling of batteries and light unit. This saves the technical service personnel a great deal of time, and reduces the training and maintenance effort.

ELITE® Fiber Optic LED Handles			
Reference No.	Size	Volts	Diameter
AHFLB-20-L	Large	2.5 V	34 mm
AHFLB-20-M	Medium	2.5 V	28 mm
AHFLB-20-S	Small	2.5 V	19 mm
AHFLB-20-ST	Stubby	2.5 V	33 mm
AHFLB-20-MI	Micro	2.5 V	19 mm
AHFLB-20-E	Economical	2.5 V	32 mm



Specifications:

- · Metal cap around LED for protection.
- 50,000 hours life of LED bulb.
- · Gives maximum light even through battery cell's volts get low.
- · More than 1 million lux.
- Closed battery cover prevent liquids penetration inside the battery compartment.
- · Easy replacement of LED holder and available for autoclaving.
- · Green ring indicates universal fitting according to ISO 7376/3.
- · Manufactured in Brass and Stainless Steel.
- · Non-slip "Wave Design" improves the reliability of the wipe disinfectant for the handle after use ('Intermediate Disinfection').



Fiber Optic LED Handles Stainless Steel Made

Acumed Easy Clean LED Laryngoscope Handle was developed to allow even simpler, faster and safer hygienic reprocessing of the handle - no complex disassembling and assembling of batteries and light unit. This saves the technical service personnel a great deal of time, and reduces the training and maintenance effort.

	ELITE® Fiber Op		5000E
Reference No.	Size	Volts	Diameter
AHFLS-20-L	Large	2.5 V	34 mm
AHFLS-20-M	Medium	2.5 V	28 mm
AHFLS-20-S	Small	2.5 V	19 mm
AHFLS-20-ST	Stubby	2.5 V	33 mm
AHFLS-20-MI	Micro	2.5 V	19 mm
AHFLS-20-E	Economical	2.5 V	32 mm



Fiber Optic KENON







Fiber Optic XENON Handles

Brass Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

ELITE® Fiber Optic XENON Handles			
Reference No.	Size	Volts	Diameter
AHFXB-20-L	Large	2.5 V	34 mm
AHFXB-20-M	Medium	2.5 V	28 mm
AHFXB-20-S	Small	2.5 V	19 mm
AHFXB-20-ST	Stubby	2.5 V	33 mm
AHFXB-20-MI	Micro	2.5 V	19 mm
AHFXB-20-E	Economical	2.5 V	32 mm

Specifications:

- Bulb is protected with metal cap around Xenon/Halogen Bulb.
- · Gold plated bulb with the life of 20 hours.
- · Closed battery cover saves the inside battery compartment from liquids.
- · Batteries are not supplied.
- · Easy replacement of Xenon holder and available for autoclaving.
- Green ring indicates universal fitting according to ISO 7376/3.
- · Manufactured in Brass and Stainless Steel.
- Compatible with all blades manufactured according to international standard.



Fiber Optic XENON Handles

Stainless Steel Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

Reference No.	Size	Volts	Diameter
AHFXS-20-L	Large	2.5 V	34 mm
AHFXS-20-M	Medium	2.5 V	28 mm
AHFXS-20-S	Small	2.5 V	19 mm
AHFXS-20-ST	Stubby	2.5 V	33 mm
AHFXS-20-MI	Micro	2.5 V	19 mm
AHFXS-20-E	Economical	2.5 V	32 mm





Specifications:

- · 2.5V / 3.5V NiMH Battery pack 1000 mAh.
- 2 Hours charging time and 2 hours working capacity.
- Special designed handle only for MC Rechargeable Station.
- · Metal Cap around LED for bulb protection.
- 50,000 hour life for bulb.
- · Gives maximum light even though battery cell's volts get low.
- More than 100,000 Lux
- · Easy replacement of LED capsule and available for autoclaving.
- Green Ring indicate universal fitting according to ISO 7376/3.
- · Build in Brass C/P and Stainless Steel.



Fiber Optic LED Recharging Handles

Brass Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

ELITE® Fiber Optic Recharging Battery LED Handles				
Reference No.	Size	Volts	Diameter	
AHFRB-21-M	Medium	3.5 V	28 mm	
AHFRB-21-S	Small	3.5 V	19 mm	









- 2.5V / 3.5V NiMH Battery pack 1000 mAh.
- · 2 Hours charging time and 2 hours working capacity.
- Special designed handle only for MC Rechargeable Station.
- · Metal Cap around LED for bulb protection.
- 20 hour life for bulb.
- · Easy replacement of Xenon capsule and available for autoclaving.
- · Green Ring indicate universal fitting according to ISO 7376/3.
- · Build in Brass C/P and Stainless Steel.

Fiber Optic XENON Recharging Handles Brass Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

AHFRB-22-M Medium	3.5 V	Diameter 28 mm
AHFRB-22-S Small	3.5 V	19 mm





Small

Medium

Battery

M R/C Battery





Conventional Handles

Acumed's conventional laryngoscope handles are made by Brass C/P and Stainless Steel AISI 303. Our quality handles are compatible with WARM RAY and LED Blades, as well as all ISO 7376/1 standard blades.

Acumed's handles has knurled profile which gives the end user best grip. Black color blocks highlighted conventional illumination.

Acumed has just develop the NiMH charging station for NiMH rechargable battery handles with 2.5V conventional handles.

Acumed has large choice of adult standard and pedriatic sets in new blue cases and rexian pouches.









Black Block indicate conventional illumination. Handles are compatible with ISO 7376/1 Standard Blades



Knurled Profile for Best Grip







Conventional Handles

Brass Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

Exclusive® Conventional Handles			
Reference No.	Size	Volts	Diameter
AHCB-23-L	Large	2.5 V	34 mm
AHCB-23-M	Medium	2.5 V	28 mm
AHCB-23-S	Small	2.5 V	19 mm
AHCB-23-ST	Stubby	2.5 V	33 mm
AHCB-23-MI	Micro	2.5 V	19 mm
AHCB-23-E	Economical	2.5 V	32 mm



Conventional Handles

Stainless Steel Made

Acumed has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity and thermal management to a colour rendering index as high as possible.

	Exclusive® Conv	entional Hand	les
Reference No.	Size	Volts	Diameter
AHCS-23-L	Large	2.5 V	34 mm
AHCS-23-M	Medium	2.5 V	28 mm
AHCS-23-S	Small	2.5 V	19 mm
AHCS-23-ST	Stubby	2.5 V	33 mm
AHCS-23-MI	Micro	2.5 V	19 mm
AHCS-23-E	Economical	2.5 V	32 mm

- Closed battery cover that prevent liquids penetration inside the battery compartment.
- Batteries are not supplied.
- · Compatible with ISO 7376/1 standard blades.
- According to International Standard (ISO 7376/1) 10are Worldwide Since
- · Build in Brass and Stainless Steel.







The Charger is Available in all three international standard sockets







EU



Battery Charging Station

New and Innovative

The Charging Unit automatically charges NiMH, NiCH and LiON Batteries irrespective of their status of charge or output voltage.

Innovative® Battery Charger		
Reference No.	Description	
BCS-US	US Charging Plug	
BCS-GB	GB Charging Plug	
BCS-EU	EU Charging Plug	

- · Charge Small and Medium handles simultaneously.
- Breathing charging indication light system.
- Both arcs beside battery compartment illuminates when handle is in position to get charge.
- Arcs light get constant, once charging complets.
- \bullet The station automatically charge NiMH, NiCD, and LiON batteries.
- 1000 mAh, 3.5V NiMH batteries takes 4 hours to completes its charging and available for working 2 hours.
- Choice of interchangeable AC power plug with European, English and American.





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