

# NEW! HEINE BETA 400® F.O. Otoscope

The top of the line HEINE Fiber Optic Otoscope with 4.2 x Magnification

## DURABILITY:

> **HEINE offers a 5 year guarantee**

HEINE makes no compromises in manufacturing high quality medical instruments. Our commitment to vertical integration in manufacturing means we control all aspects of our instrument quality, from utilizing carefully selected, well-matched materials to a high level of hand assembly. This ensures that each HEINE instrument meets or exceeds all requirements in any medical environment.

> **An all-metal housing and scratch-resistant glass optics** guarantee a long lifetime of the BETA 400 F.O. Otoscope and high-quality patient assessments.

## PERFORMANCE:

- > **4.2x magnification.** More detail of anatomical structures and easy recognition of foreign bodies.
- > **Exceptional depth of field.** Provides sharp spatial images in a convenient working range.
- > **Large field of view.** Gives the necessary overview and perfect orientation during examinations.
- > **Multi-coated precision optics.** Offer high resolution and distortion free images.
- > **Fiber Optic Illumination.** Ensures homogeneous, bright exposure and an unobstructed view of the ear canal and tympanum.

## FUNCTION:

- > **One hand operation.** The unique (patent pending) design allows the permanently attached optical system to be flipped open and out of the way, enabling instrumentation and ease of cleaning.
- > **Instrumentation window.** Allows for treatment by the examiner through the device.
- > **Integrated Insufflation port.** Offers proper tympanic mobility testing.



# · FIBER OPTIC OTOSCOPE AT A GLANCE

For internal training purpose only

## QUALITÄT



		Competitor 1	Competitor 2	Competitor 3	HEINE BETA400®
DURABILITY	Guarantee	1 year	1 year	2 years	5 years
	Material	plastic body and lenses	plastic body and lenses	plastic body and lenses	all metal housing; scratch resistant multi-coated plas optics
PERFORMANCE	Magnification	3.2x	2.5x	3x	4.2x
	Field of View 5mm from end of Tip (2,5mm)	3mm	3mm	2.5mm	3mm
	Depth of field	very small depth of field; a lot of manual adjustment necessary	medium depth of field	medium depth of field	wide range of exceptionally sharp spatial images
	Optics	plastic lenses; lever only adjusts focal length	glass lens in fully detachable window (can be misplaced)	plastic lenses	F.O., homogeneous, bright, unobstructed view
FUNCTION	Illumination	F.O.	F.O.	F.O.; strands partly unprotected and prone to damage	F.O., homogeneous, bright, unobstructed view
	Ergonomy	unusual handling; practitioner has to adjust habitual operation	typical handling; practitioner has to use 2 hands to remove viewing window	typical handling	one hand operation; trusted convenient handling
	Instrumenting window	no instrumentation possible	fully detachable window (can be misplaced)	swiveling window	flipping window allows easy application of instruments through the device
	Cleaning	many crevices and difficult to reach areas; delicate device	typical cleaning procdures possible	impossible to clean cavities, may collect infections debris	smooth surfaces, wide opening window allow easy and fast cleaning
	Pneumatic testing	possible	possible	available	sealed connection for optimal testing capabilities
	Power	diverse power options available (dry cell; NiMH; Li-ion)	diverse power options available (dry cell; NiMH; Li-ion)	diverse power options available (dry cell; Li-ion)	diverse power options available (dry cell; NiMH; Li-ion)
	Tips	disposable: 2.5mm, 3mm, 4mm, 5mm	reusable: 2.5mm, 3mm, 4mm, 5mm; disposable: 2.75mm, 4.25mm	reusable: 2mm, 3mm, 4mm, 5mm; disposable: 2mm, 3mm, 4mm, 5mm	reusable: 2.4mm, 3mm, 4mm, 5mm; disposable: 2.5mm, 4mm

■ = very good

■ = neutral

■ = good

■ = weak

