



PRODUCTS CATALOGUE



**Complete Solutions
for Video-Endoscopy and Video-Stroboscopy**





MediCam ●

Video endoscopy cameras

MediCam is the Invisia line of digital USB cameras dedicated to video endoscopy, which concentrate leading edge video technology in an extremely light and compact body. Combined with Visia, the Daisy module for video acquisition, MediCam turns your computer into a powerful video endoscopy system.

MediCam is available in two versions, Basic and Plus. MediCam Basic is a standard resolution camera featuring a CCD sensor with 640x480 pixels. MediCam Plus, with a high sensitivity CCD of 1280x960 pixels, is designed for the most demanding customers.

- The camera includes image capture and archiving software. For video recording you have to buy the Visia license (REF. 10011).
- The camera includes an USB footswitch to control image capture and recording.
- The camera does not include the endocoupler.

TECHNICAL DATA

Sensor	Progressive scan Sony® 1/3" CCD
Resolution	Basic: 640 x 480 pixels Plus: 1280 x 960 pixels
Interface	USB 2.0
Frame rate	25 fps
Dimensions	37 x 40 x 67 mm / 1.5 x 1.6 x 2.6 in. (LxHxW)
Weight	115 g / 4 oz. (including the cable)
Thread type	C-Mount
Compatible software	Inventis Daisy with Visia module
Compatible OS	Windows XP SP3, Vista, 7, 8, 32 or 64 bit

REF. 10345 - MediCam model Basic

REF. 10346 - MediCam model Plus



Medicam Basic

Medicam Plus

4



● Flexia

video nasopharyngoscope

Flexia is a CMOS chip-on-the-tip video nasopharyngoscope. The cutting edge CMOS chip and the powerful LED illumination allow you to obtain perfect sharp bright images with a resolution of more than 80,000 pixels, i.e. 5 times higher than a classical fiber optics nasopharyngoscope.

Flexia is a compact, all-in-one system: forget light sources, cables, cameras, adapters... everything is already in it, easily transportable in the dedicated aluminum case.

Flexia's finely manufactured handpiece is connected to the Control Unit featuring two video outputs:

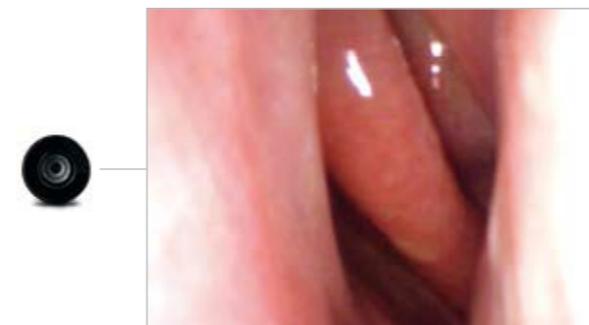
- A digital USB output for interfacing with any Windows computer through the software suite Daisy.
- An analog output for connection to any standard display.

TECHNICAL DATA

Light source	LED, integrated in the handpiece
Probe diameter	3.8 mm
Probe length	300 mm
Deflection	2 x 135°
Direction of view	0°
Field of view	85°
Focus field	6 – 60 mm
Sensor resolution	82,000 pixels
Video outputs	2 x Composite Video (CVBS) 1 x USB 2.0
Controller dimensions ..	243 x 65.6 x 229.5 mm (W x H x D)
Weight	2.4 Kg
Compatible software	Inventis Daisy with Visia module
Compatible OS	Windows XP SP3, Vista, 7, 8, 32 or 64 bit

REF. 10333 - Flexia

REF. 10354 - Flexia + Daisy-Visia video acquisition software



5



HighLight Basic ●

portable LED stroboscope

HighLight Basic is a portable LED stroboscope and continuous light source, developed to make laryngostroboscopic investigations the everyday practice for all ENT specialists by offering an unbeatable quality/price ratio.

Despite the small size, no compromises have been made in terms of performance. HighLight Basic features still or slow motion viewing modes, footswitch control and real time power spectrum view.

Combine HighLight Basic with MediCam Basic camera: you will obtain a high quality video endostroboscopy system that ideally meets most of the needs and is easily carried in a suitcase. See page 14 for further information about Invisia packages.



TECHNICAL DATA

Light source	White LED, mounted on a handpiece
Color temp	6,500°K
LED intensity	1,000 lumens
LED lifetime	50,000 hours
Connector type	Wolf
Mode of use	continuous and stroboscopic light
F0 extraction	manual or automatic
F0 range	70 Hz - 1,100 Hz
Slow motion	3 speed
Microphone	Clip-on and contact microphones included
Footswitch	Single-pedal footswitch included
Outputs	Audio and USB
Weight	Main Unit: 800 g / 1.8 lbs Light source: 100 g / 0.2 lbs
Dimensions	Main Unit: 18x10x14 cm / 7x4x5 in (WxHxD) Light source: 12 cm / 4.8 in (W)

REF. 10352 - HighLight model Basic



● HighLight Plus

LED stroboscope

HighLight Plus is Invisia's top-of-the-range stroboscopic light source. Based on LED technology, it provides superb images of the vocal folds and supplies powerful continuous light for every endoscopic use.

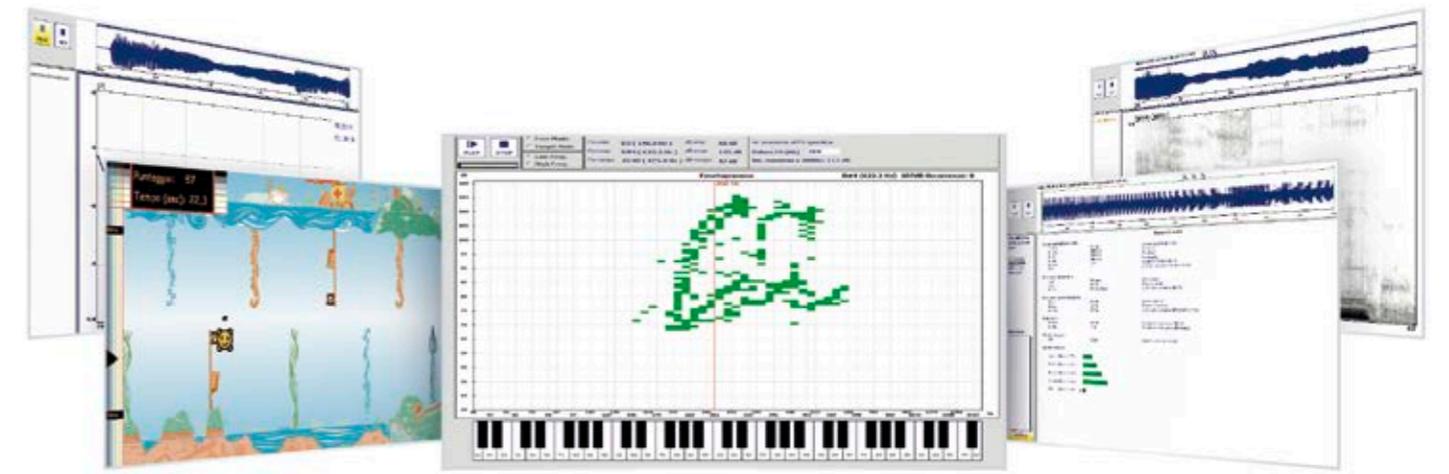
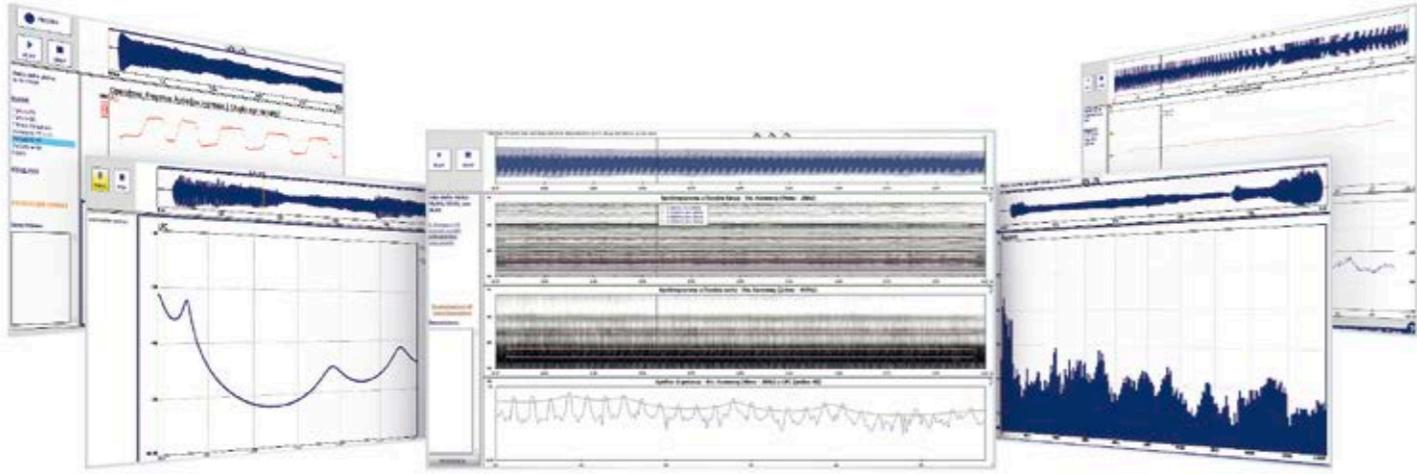
The key feature of HighLight Plus is its super high power LED source that produces a perfect white light with the same intensity as a 180 Watt Xenon lamp (continuous operation) without needing the expensive bulb replacements typical of the latter.

For an uncompromising system, combine HighLight Plus with MediCam Plus camera: the sharp brightness of the HD laryngostroboscopy videos will amaze you, and so will the advanced software tool available with frame-by-frame analysis, strobokymography and patient voice analysis. See page 14 for further information about Invisia packages.

TECHNICAL DATA

Light source	White LED, embedded in the device housing
Color temp	6,800°K
LED intensity	2,000 lumens
LED lifetime	20,000 hours
Mode of use	Continuous and stroboscopic light
F0 extraction	Manual or automatic
F0 range	70 Hz - 1,100 Hz
Slow motion	3 speed
Microphone	Clip-on and contact microphones included
Footswitch	2 pedals footswitch included
Light cable connector	Storz compatible, other standards available on request
Outputs	Audio and USB
Weight	5 Kg / 11 lbs
Dimensions	300x110x290 mm / 12x4.3x11.4 in (WxHxD)

REF. 10353 - HighLight model Plus



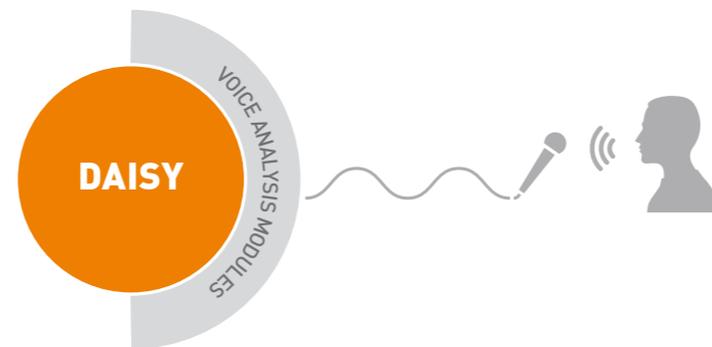
Voice Analysis System ●

Invisia's line for voice specialists includes an exceptionally complete and powerful voice analysis and rehabilitation software for instant easy access to all the patient's principal voice parameters and tests.

The voice analysis software comes as Daisy modules, perfectly integrated into the Invisia software suite. The seven modules available - described in the next page - are each dedicated to a specific analysis or task.

The Voice Analysis System is available in four packages, each including a subset of the seven modules and a professional audio acquisition hardware, besides the software Daisy:

- Fonos Basic (REF. 10123): includes only Voice Analysis
- Fonos Plus (REF. 10153): includes Voice Analysis and Phonetogram
- Logos Basic (REF. 10141): includes RT-FrequEn and FonoGames
- Logos Plus (REF. 10142): includes RT-FrequEn, FonoGames, RT-Power Spectrum, RT-Spectrogram and RT-Formants



VOICE ANALYSIS module

Voice Analysis, main module of the package, performs a deep offline analysis of patient phonation by extracting the following parameters:

- Fundamental frequency
- Energy and peak-to-peak amplitude
- Main vocal parameters, like jitter, shimmer, F0 and amplitude modulations and Harmonic to Noise Ratio, with graphical comparison to normative data
- Narrow- and broadband spectrogram
- First 4 formants with bandwidth directly on the spectrogram
- Power spectrum
- Linear Predictive Coding (LPC)
- Long Time Average (LTA) spectrum

PHONETOGRAM module

The Phonetogram module allows execution of the voice range profile analysis in two classical modes: Free Mode and Target Note. On completion of the test, minimum and maximum values and F0 and intensity the ranges are displayed.

RT-FREQUEN module

RT-FrequEn is the main module dedicated to voice therapists. It calculates the pitch and energy of phonation in real time, allowing the following exercises:

- Maintaining voice pitch or energy within a given range
- Imitation of pitch and/or energy
- Phonation time evaluation

FONOGAMES module

The youngest patients can control the movements of the witty puppet Woody with the pitch or the energy of their voice, guiding him along several obstacle strewn paths.

RT-POWER SPECTRUM module

This module calculates in real time and plots the power spectrum of the voice.

RT-SPECTROGRAM module

This module calculates in real time and plots the voice spectrogram.

RT-FORMANTS module

This module calculates in real time and plots Linear Predictive Coding (LPC) and shows the value of the first two formants.



Delfino ●
wireless video otoscope

Delfino is our award-winning wireless video otoscope. Its small and ergonomic handpiece allows the operator to see, capture and store top quality images of the ear canal on a traditional display or on the computer screen. Maximum patient and operator comfort are guaranteed by wireless functionality.

Crisp and clear images, easy to use, small footprint, ergonomic design and computer connectivity converge to make Delfino the perfect choice for the most demanding ENT specialists.



TECHNICAL DATA

Illumination	LED Array
Optics	Endoscopic gradient-index optics
Camera	CMOS sensor, res. 720 x 576
Min. working dist	10 mm
Battery	Li-Ion rechargeable
Video transmission	7 selectable channels
Pre-heating	In the receiver base
Video outputs	Digital USB 2.0 and analog composite
Weight	Base: 500 g – hand piece: 180 g
Dim. (WxHxD)	Base: 105 mm x 75 mm x 250 mm Hand piece: 220 mm x 90 mm x 140 mm
Compatible software	Inventis Daisy with Visia module
Compatible OS	Windows XP SP3, Vista, 7, 8, 32 or 64 bit

The device includes the image capture and archiving software (Daisy) and the dedicated Noah module.

REF. 10103 - Delfino wireless video otoscope



● **Rigid and Flexible scopes**

Invisia provides a complete range of top quality rigid and flexible optics along with a wide choice of accessories, such as endocouplers and light cables, all perfectly optimized to create a complete video endoscopy system that guarantees superior performance standards.

NASOPHARYNGOSCOPE

Fiber bundle	Conventional image bundle, 16,000 pixels
Working length	300 mm
Working diameter	3.2 mm
Deflection	Up 140°, down 140°
Length of movable tip section	20 mm
Viewing direction	0°
Field of view	80°
Depth of field	6 mm - 1,000 mm

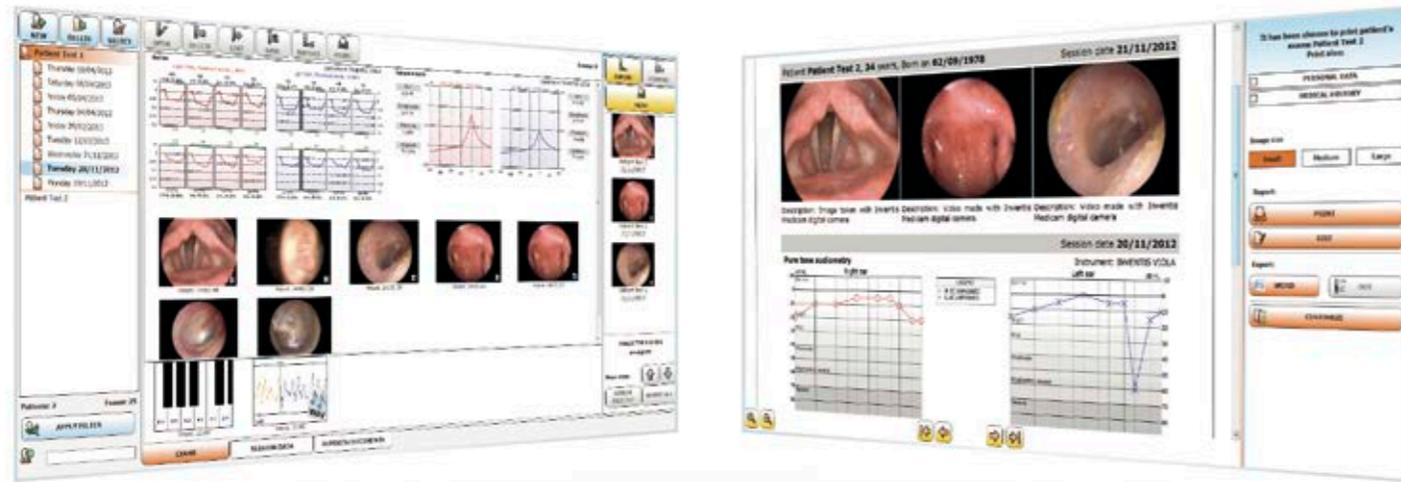
REF. 10382 - iFL-3216 nasopharyngoscope



RIGID ENDOSCOPES

- Oscopes: diam. 2.7 and 4 mm – Viewing dir. 0° and 30°
- Sinusscopes: diam. 2.7 and 4 mm – Viewing dir. 0°, 30° and 70°
- Laryngoscopes: diam. 4, 5.8, 8 or 10 mm – Viewing dir. 70° and 90°
- Strobe-laryngoscope: diam. 12.4 x 7.2 mm “flat profile” – Viewing dir. 70°

Request the complete catalogue of our rigid endoscopes.

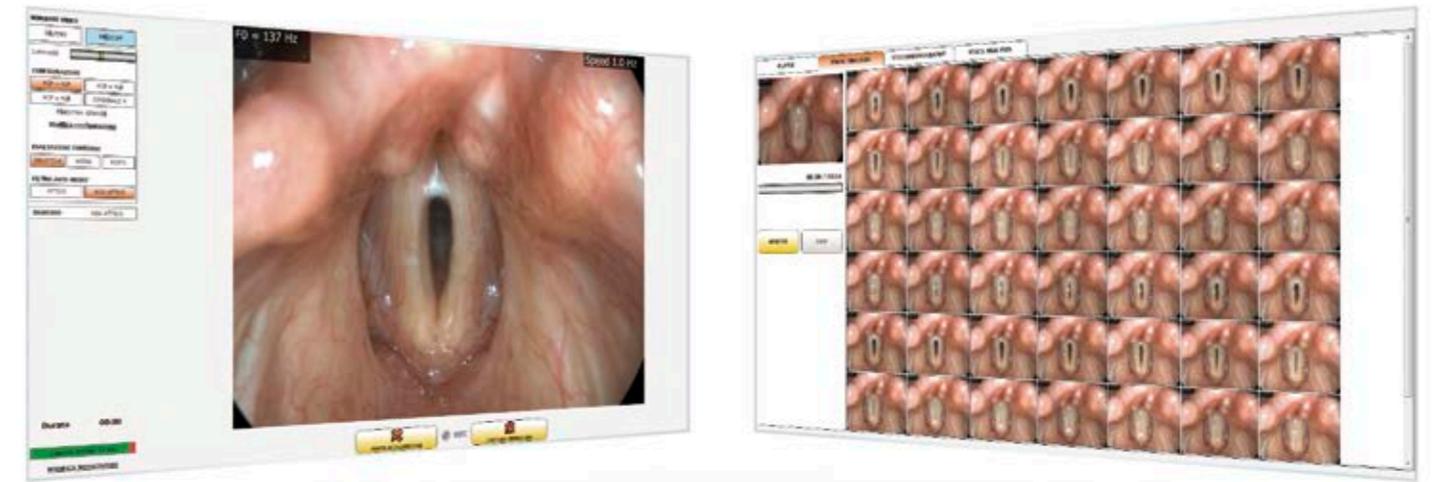
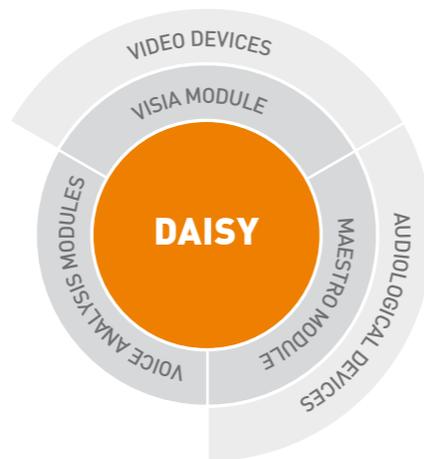


Daisy ●

Software Suite

Daisy is our patient data management software, specially developed to handle examination data acquired by all Inventis and Invisia devices. Daisy is a modular system: the modules - each with a specific task - are optional software installable inside Daisy and usually protected by a license key. Its ability to manage several types of investigations, combined with highly versatile, rapid and easy to use features, makes Daisy the ideal solution for ENT clinics and hospitals.

- Remarkable user-friendly interface for easy and rapid operations
- Professional reporting, combining data from multiple devices
- Exports investigations to any optical media
- Supports all Inventis and Invisia instruments
- Stand-alone or network installations



● Visia

Video Acquisition module

Visia is the Daisy module dedicated to video acquisition, in other words the software interface for all our imaging devices. It allows you to capture clips and still images from several different video sources in an easy and affordable way. Visia features an impressive anti-Moiré system (available only for MediCam Plus camera) designed to completely suppress the pattern of fibers by exploiting an adaptive algorithm which automatically optimizes filtering parameters according to the currently acquired image.



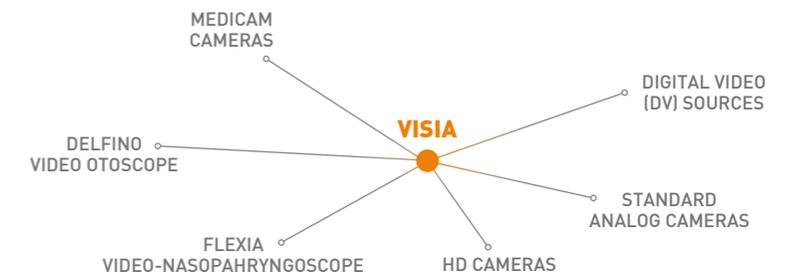
Visia also interfaces with Invisia stroboscopes: current F0 and voice intensity levels are displayed on the computer screen and video-recorded.

REF. 10011 - Visia - Daisy module for video acquisition (includes Daisy installation CD)

Main accessories:

REF. 10033 – USB footswitch for Visia

REF. 10359 – Analog-to-USB converter for PAL and NTSC video signals





Invisia packages ●

Want to save money and have a perfectly optimized system?
Choose one of the invisia packages!

Video-Strobo Basic ●	Video-Strobo Plus ●	Voice lab Basic ●	Voice lab Plus ●
MediCam Basic	MediCam Plus	MediCam Basic	MediCam Plus
HighLight Basic	HighLight Plus	HighLight Basic	HighLight Plus
Daisy software	Daisy software	Fonos Basic	Fonos Plus
Visia Module	Visia Module	Daisy software	Daisy software
-	-	Visia Module	Visia Module
REF. 10355	REF. 10356	REF. 10357	REF. 10358

Optional accessories, not included in the packages:

- Rigid and/or flexible endoscope
- Endocoupler
- Light cable
- Video endoscopy cart



● Video endoscopy cart

Our finely designed trolley, with rigid and flexible scope holders, camera support, computer brackets and optional insulating transformer, is ideal for integrating invisia devices into a professional endoscopic tower.

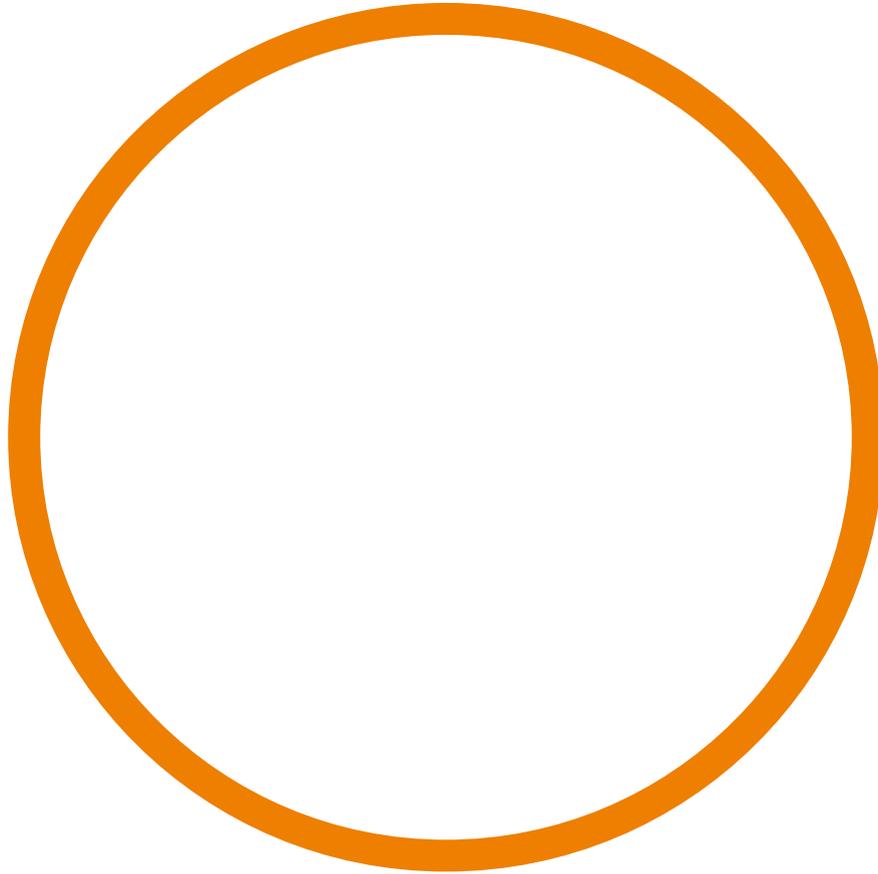
REF. 10348.....Invisia cart for video endoscopy

REF. 10349.....Invisia cart for video endoscopy with 800 VA isolation transformer

REF. 10350.....Invisia cart for video endoscopy. With computer, 24" display and printer

REF. 10351.....Invisia cart for video endoscopy with 800 VA isolation transformer. With computer, 24" display and printer





Invisia® is a registered
trademark of Inventis s.r.l.

INVENTIS s.r.l.
CORSO STATI UNITI, 1/3
35127 PADOVA - ITALY
PHONE: +39.049.8962 844
FAX: +39.049.8966 343
info@inventis.it
www.inventis.it

Follow us on Twitter
<http://twitter.com/inventissrl>