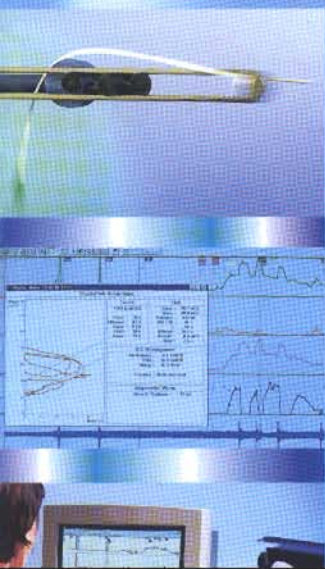
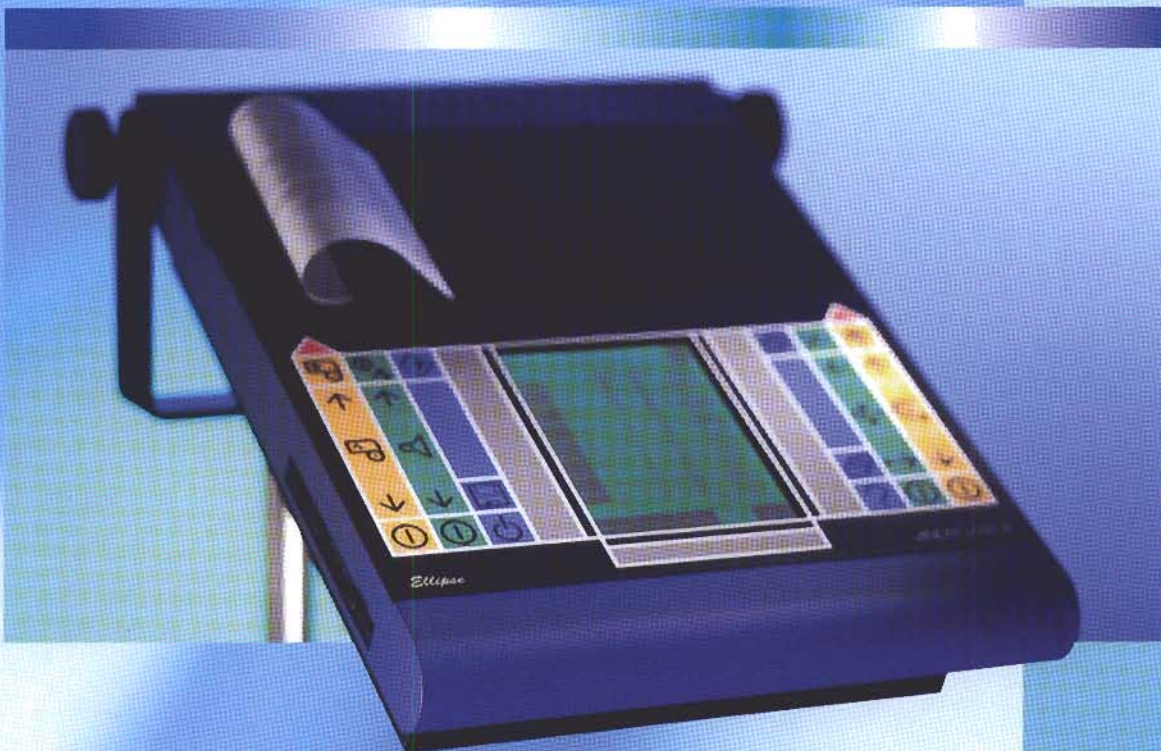


[Ellipse]

The modular concept
for precise urodynamics





[Ellipse]

The system concept

Precise, swift and efficient diagnosis

▷ An exact and economical solution

With the modular Ellipse system, ANDROMEDA has developed a measurement unit of unparalleled precision. High sampling rates guarantee maximum measurement density. An artefact detector identifies and compensates for irregularities during the examination.

The powerful integrated software ensures sharp-contrast display of graphic curves. All ICS-standardised examinations can be carried out rapidly and comfortably in a single sitting. Ellipse can be progressively extended in its use thanks to the combination of standard components with application-specific assemblies. Regular updates of new analysis methods can be integrated into the system immediately.

The advantages at a glance

- ▲ High-quality reproducible measurement results
- ▲ Comprehensive full-range analysis in a single sitting
- ▲ Quick, comfortable and cost-effective examinations
- ▲ Network capability for efficient patient management and thorough analysis in detail
- ▲ Individual system and programming options.

CLIPPer

The world's first computer-controlled analysis system for CLPP measurement

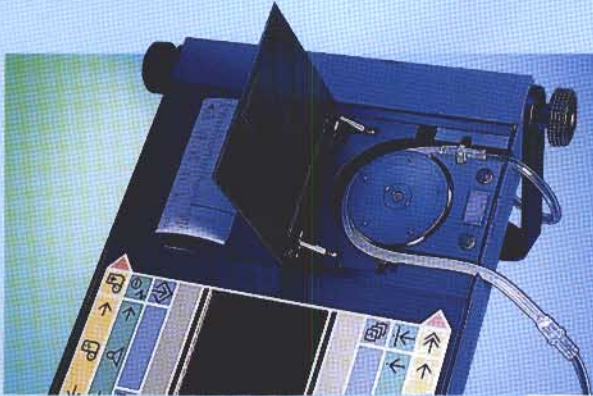
The powerful Ellipse system and the innovative analysis software AUDACT for the first time allow reproducible and minimally invasive measurement of stress incontinence by means of Cough Leak Point Pressure (CLPP). Only the abdominal pressure and the uroflow are recorded as measurements. The automatic evaluation system generates a plot of abdominal pressure and leak flow, thereby eliminating the need for a transurethral catheter.

Further detailed information on CLIPPer available on request.



Volume transducer
Attached firmly to the stand, designed to accommodate two infusion bottles

Mobile upright support
The mobile stand of the Ellipse system is mounted on a six-arm wheelbase, and is extremely stable



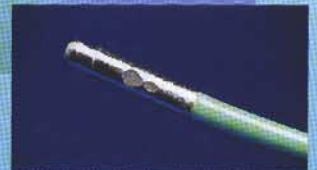
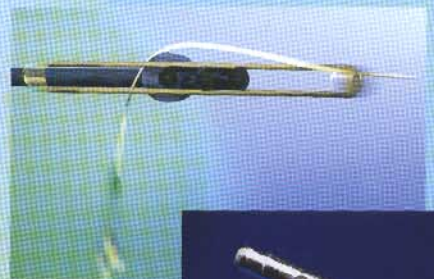
Ellipse control panel

Powerful integrated software allows all ICS-standardised examinations to be carried out rapidly and comfortably in a single sitting. The fully adjustable H₂O pump and the volume transducer ensure that the volume of infusions is precisely dosed. Even extremely low volumes of less than 5 ml/min. are possible.



Catheter puller

The catheter puller is swivelled into position between the patient's legs to generate urethra pressure probes. Pull speed can be regulated as required. The sterile puller bow and the MTC connection can also be used as catheter or tube holders for cystometry.



Flow system

The Ellipse flow system, adjustable in both height and swivel action, is ideal in its ergonomic design, allowing comfortable micturition in a standing position. It can also be used in combination with the Ellipse micturition chair. Uroflow volumes of as little as 1 ml can be recorded.

[Ellipse]

Analysis at the touch of a button The entire spectrum of analysis in a single system

▶ The Ellipse system allows all ICS-standardised examinations to be carried out easily and comfortably. Exceptional high-performance software guarantees results of the highest quality and substantial time-savings. Sampling rates of up to 16 kHz oversampling ensure the highest possible signal-processing quality and precision of measurement results.

Diagnosis is greatly facilitated by the sharp contrast in the display of graphic curves. The operating panel is washable and easy to use with the help of a pressure and position-sensitive membrane keypad. All analysis results can be documented online with a thermal printer.

A single system for the entire spectrum of analysis

- ▲ Automatic evaluation of flow measurement based on ICS terminology
- ▲ EMG flow measurement with useful sound effects (bio-feedback) for analysis of sphincter behaviour during uroflow
- ▲ Cystometry (Pves, Pabd, Pdet) using external pressure transducers and/or microtip catheters (MTC) for automatic calculation of detrusor pressure
- ▲ Pressure flow measurement without reselection of programmed routine for Chess, Linear PURR and ICS nomogram evaluation
- ▲ Urethra pressure profiles under rest and stress conditions with parallel recording of Pves, Pura and other pressures. Evaluation of pressure profiles includes transmission factors and depression quotients
- ▲ Minimally invasive measurement of stress incontinence by means of Cough Leak Point Pressure (CLPP)
- ▲ Rectal manometry with up to eight channels

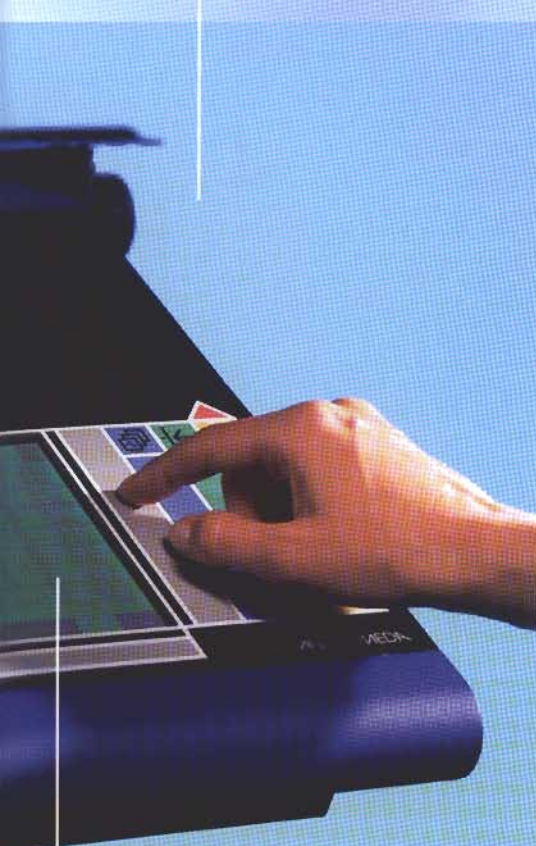


In addition to the measurement channels for pressures, flow, volume and EMG, there are interfaces for the catheter puller, external VGA colour monitor, keyboard and Ethernet connection.





The software of the Ellipse system is equipped with an artefact detector in the flow channel. Irregularities occurring during the examination which can falsify results – such as the patient inadvertently knocking against the flow unit – can thus be detected and eliminated.



Technical specifications

- 6 or 8 pressure channels**
sampling rate: 20/40 Hz, 1 kHz oversampling
- 2 flow channels**
sampling rate: 8 Hz, 2 kHz oversampling
- 2 EMG channels**
sampling rate: 8 Hz, 16 kHz oversampling,
impedance measurement option
- 1 volume channel**
sampling rate: 1 Hz, 2 kHz oversampling
- Measurement routines:**
user-defined, unlimited number
- H₂O roller pump:**
integrated in the basic unit
pump velocity: 1... 199 ml/min.
- Screen display:**
LCD, high contrast, 320 x 240 pixels
- Printer:** 200 dpi, 112 mm heat-transfer paper
- Printing speed:** 0.25/ 0.5/ 1/ 2/ 5 mm/s
- Remote control:** infrared, range of 10 m
- Disk drive:** 3.5 inch
- File format:** ICS standard
- Optional:** CC-EMG module, CLIPPer
- Power supply:** 90 – 240 V AC, 50 – 60 Hz
- Certification:** CE, FDA, JIS
- Safety category:** I, BF type, IPX I

A remote control further facilitates operation.



The symbol-operated user interface makes handling simple and minimises sources of error.

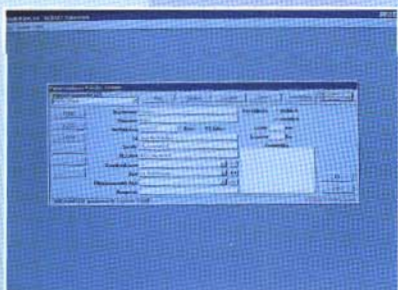


< AUDACT >

The AUDACT system

Exact analysis and efficient administration

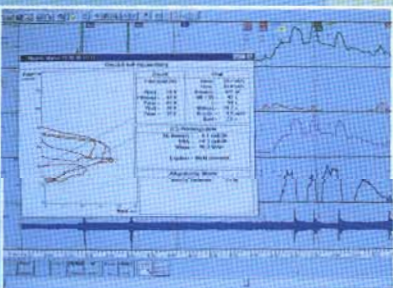
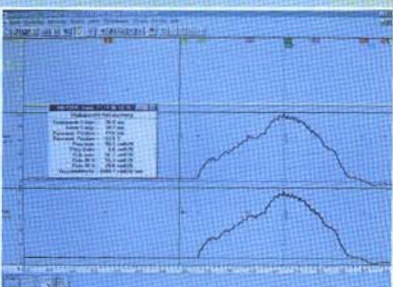
▶ The AUDACT analysis software is Windows 95/98/2000/NT compatible. It offers



powerful features and is readily adaptable to specific needs. The application is based on the MS Access database format and allows patient data, lists and statistics to be analysed

and archived in readily retrievable form.

Mouse selection adds speed and convenience to the complete evaluation of all ICS standards.



Reliable and flexible analysis

Markers can be simply positioned and moved at the touch of a button. The zoom function allows easy repositioning of the measurement curve. Simultaneous loading of several curves facilitates comparison of results from different examinations.

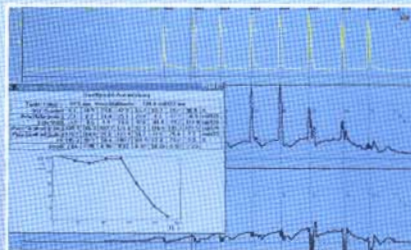
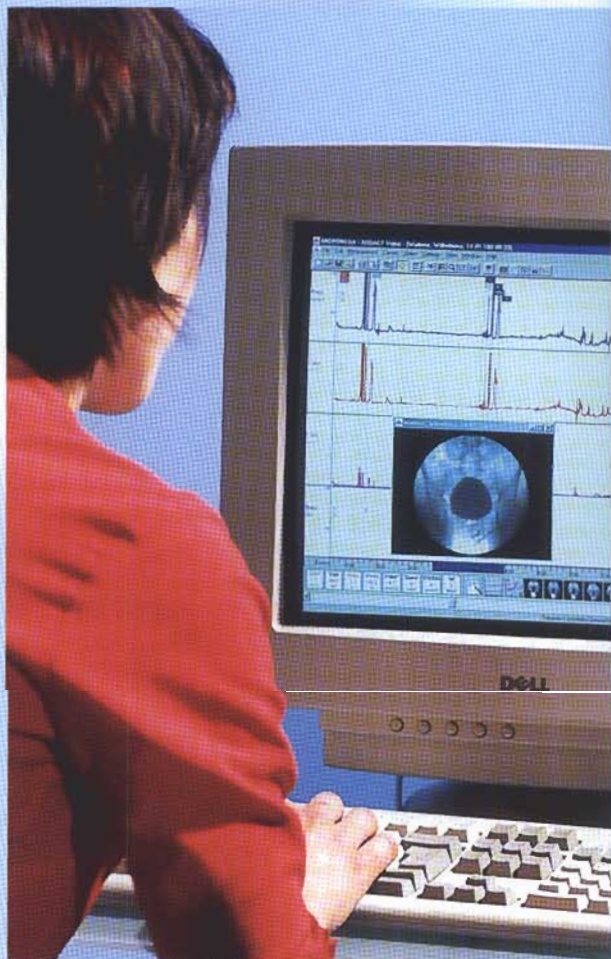
For greater clarity of interpretation, individual measurement results can be displayed or hidden as required; all values recorded nonetheless remain archived within the system for future reference. Inadvertent manipulations during the process of analysis are thus prevented. This guarantees the doctor optimum reliability of diagnosis as well as a maximum of flexibility.

Easy administration and compilation of statistics

The Flex-Doc system allows all analysis data to be exported to numerous MS Word documents, as required.

Further processing of data, such as the generation of a physician's report, can be carried out rapidly according to individual requirements.

In addition to patient-specific analysis of the database, evaluation of the system itself generates statistics on analysis methods and capacity utilisation.

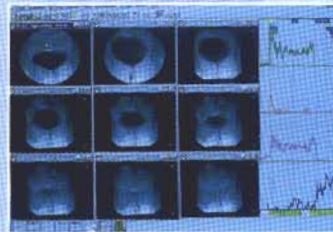


AUDACT Video

For maximum reliability in diagnosis

< **AUDACT** >
VIDEO

▷ AUDACT Video perfects the solutions offered by the urodynamic measurement unit. Sophisticated digital image processing in colour or black and white facilitates a flexible and clearly defined approach to analysis. Measurement values are simultaneously correlated with the most recent video recordings, whereby the required still images can be freely selected from the sequence as a whole. Up to 25 (PAL) or 30 (NTSC) video images per second can be stored. Angle and distance measurements guarantee the highest possible precision in diagnosis. Functions determining zoom, contrast, speed, brightness, size, colour, etc. provide greater clarity of presentation in the subsequent processing of stills and videos. As a further option, all video sequences can be archived on CD-ROM.



AUDACT system

Channel display
user-defined, number unlimited

Channel processing:
zoom, hide, filter

Analyses:
flow, cystometry, urethra pressure profile (rest and stress), pressure flow (ICS nomogram, Chess, Linear PURR), CLPP

Online display of channels:
via PC network

Database: MS Access

Print-out: Flex-Doc system, user-defined templates

Data export:
various common database formats

Operating system:
MS Windows 95/98/2000/NT

AUDACT Video

Video input:
PAL, NTSC, SECAM

Recording:
Video sequences of 1 – 30 images/sec, duration restricted only by capacity of hard disk

Subsequent processing:
recording of individual stills (up to 99 images/measurement), angle and distance measurement, zoom function, replay of video sequences



< **AUDACT** >

Perfection down to the smallest detail
Innovative ideas complement the urodynamics concept

Article no.	DCY062	DCY092
Fr./CH:	6	9
Length:	400 mm	400 mm
Lumen:	2	2
No. in package	10	10

Catheter for cystometry with 2 lumen

Article no.	DCY052
Fr./CH:	5
Length:	400 mm
Lumen:	2
No. in package	10

Catheter for cystometry with Tiemann tip, 2 lumen for children

Article no.	DUD052
Fr./CH:	5
Length:	400 mm
Lumen:	2
No. in package	10

Catheter for urethra pressure profile with 2 lumen for children

Article no.	DUD093
Fr./CH:	9
Length:	400 mm
Lumen:	3
No. in package	10

Catheter for cystometry and urethra pressure profile with 3 lumen

Article no.	DRE092	DRE122
Note	Children	Adults
Fr./CH:	9	12
Length:	150 mm	150 mm
Lumen:	2	2
No. in package	10	10

Catheter for rectal pressure with 2 lumen

Article no.	D00902
Length:	550 mm
No. in package	30

EMG surface electrodes

Article no.	D00401
No. in package	10

Pump tube for Ellipse

Article no.	D00501
No. in package	10

Tube system for 3 external pressure transducers

Your authorised ANDROMEDA dealer

MTC and specials on request