ENT CHAIR
OP-S10 / OP-S14

DESIGNED BY ENT SPECIALISTS FOR ENT SPECIALISTS

- Completely motorized
- Ergonomic
- Robust
ONE OF THE MAIN ergonomic advantages of this chair is the possibility it offers the specialist, due to its well studied design, of easily and comfortably reaching every area of the patient that requires examination. OPTOMIC has developed a chair designed for the comfort of both patient and doctor. Our philosophy is based on the idea that not only the patient must be comfortable, but also the specialist, in order to work safely in any position, avoiding inconvenient postures and unnecessary fatigue. The high quality of its mechanism sets it apart from other chairs in the market, as mechanics of high precision and great sturdiness have been used, as well as the best materials and components. Proof of this are its conical roller bearings of high resistance, its 36 self-lubricated axle-boxes that offer an unequalled smoothness of movement, free of looseness and maintenance, its linear bearings for axial glides, its high quality Danish motors, or its excellent electronics with capacity for different programs and functions.

Quality, design, ergonomics, safety, resistance, stability, precision and a long life span are synonyms of OPTOMIC chairs.
Motorized Backrest
Rising and Lowering System

It is controlled by a processor which enables the chair to be set in any of the selected positions, depending on the user setting.

Electromagnetic Rotation and Brake

CHAIR ROTATION

The patient can turn very safely and smoothly, due to the chair’s strong bearings of high resistance conical rollers.

Function Control

It has up to 36 programmable memories for 9 different users. The memory keys have a double function: to place the chair in the programmed position and, in the case of the OP-S14, to control up to 4 external systems, such as microscope, suction unit, office lighting, nurse call, etc.
Comfortable for Doctor and Patient

STUDIED IN DEPTH to develop a product which adapts itself to the doctor’s ergonomics in action.

Its great capacity and reduced size ensure that the chair structure does not hinder the doctor’s movements. Its sturdiness makes it possible to move large patients.

Concave legrest: when horizontal it holds the patient’s calves for greater comfort and relaxation.
**LEG AND FOOTREST, MAIN ACCESS TO THE PATIENT**

**Small Footrest**
It forces the patient to sit in the correct position to be examined.

**Collapsible Footrest**
It allows patients with reduced mobility to sit with total safety.

**Narrow Legrest**
It allows for easy approach to the patient without the doctor having to open his or her legs excessively.

**Fold-down Footrest**
When the chair is horizontal, the footrest folds down automatically to avoid pain from contact between the heels and the metal.

**Backrest Travelling System**
On linear guides, it travels up and down automatically, so that the patient’s head and the headrest do not lose their position when the backrest is lowered.
It also protects the lumbar area, preventing the patient’s clothing from moving around the waist.
Solid Folding Armrests

With stainless steel axes and padded in washable poly-urethane. They fold down to provide greater comfort for large patients and lateral tests.

The doctor can get close to the patient standing up or sitting down, helped by the shape of the backrest. It also enables the patient to sit sideways.

Concavity between Seat and Backrest

It allows the doctor to adopt a comfortable position when he or she is sitting beside the patient.

Headrest with Pneumatic System Height Adjustment

It incorporates a quick removal system which facilitates the execution of positional tests and routine practices; the brake and its coupling system provide rigidity and resistance to rotation, and make the change of headrest model easy.
VESTIBULAR TESTS

ERGONOMICS

Solid Folding Armrests
With stainless steel axes and padded in washable polyurethane. They fold down to provide greater comfort for large patients and lateral tests. The doctor can get close to the patient standing up or sitting down, helped by the shape of the backrest. It also enables the patient to sit sideways.

Rotational Pendular Motorized Chair
It can be used to carry out pendular vestibular tests, with a more natural and less unpleasant stimulation. The rotational stimulation is controlled in such a way that the effect on the labyrinth is always the same, eliminating the devices associated to other stimulation techniques.

This option makes the OP-S10 chair the most complete assistant for the ENT specialist, as it integrates the functions of the examination chair and the motorized pendular chair. This option has a position memory in the rotation, so that it is possible to reach any angle by just pressing a key.

Speed Control
The sinusoidal harmonic movement is managed from a supplementary device.

Connectivity to External Systems
Its connection to the OPTOMIC Videonistagmography System (optional) provide it with unique features. Its position and speed sensors permit the computer analysis of gain and phase rotational parameters.

Concavity between Seat and Backrest
It allows the doctor to adopt a comfortable position when he or she is sitting beside the patient.

Straight Headrest
Adjustable Headrest

Headrest with Pneumatic System
Height Adjustment
It incorporates a quick removal system which facilitates the execution of positional tests and routine practices; the brake and its coupling system provide rigidity and resistance to rotation, and make the change of headrest model easy.

CONTROLS

Single Key for Trendelenburg Position
It works in an emergency situation taking the chair to this position automatically (-10°) and raising the patient to a comfortable intervention position. The movement can be cancelled by pressing any key.

Central Key
It controls the chair’s electromagnetic brake function and the LED light source or the examination spotlight.

Function Control
Using any of the four redundant keyboards placed on different sides of the chair, it can be controlled from any position.

Liquid Crystal Display (optional OP-S14)
The active user can be viewed and selected, programming the memories of each one. It gives warnings and displays messages of status or error.

Examination Spotlight (optional OP-S14)
For combined use with a frontal mirror, placeable in any direction. Anti-heat cooled casing, with halogen dichroic lamp of short focus.
Great Stability and Sturdiness
This describes the chair’s base. Its practical base ends allow the doctor to move over them with a rolling chair, so there is only the minimum space between patient and specialist.

Elevator Arm
A self-compensated parallelogram makes it possible to increase the chair’s load, providing greater safety and stability.

Electrical Safety
The chair is connected directly to its power box, which provides low voltage current (21v – 31v) and isolates the chair from the main power supply, avoiding dangerous voltage.

Movement Safety
The chair has an accidental movement protection system. Its STOP key prevents it from moving if a key is pressed accidentally.

Mechanical Safety
The chair mechanism is encased in plastic to make it totally safe from mechanical trapping accidents.
These options make the **OP-S14 Chair** the hub of the office.
CCD Camera for Endoscopy
Integrated in the monitor, the CCD camera with a remote head can show endoscopic images of the highest quality thanks to its high resolution and excellent colour reproduction. It has simultaneous composite video and S-Video outputs to connect an external monitor, recording system or imaging equipment.

LED Light Source for Endoscopic Use
A LED cold light source with connection for Storz type fiber optic cable can be added to the backrest. It has powerful full and high performance light with 60,000 hours of life.
These options make the OP-S10 Chair the hub of the office.

VIDEOENDOSCOPY UNIT (optional)

CCD Camera for Endoscopy

Integrated in the monitor, the CCD camera with a remote head can capture endoscopic images of the highest quality thanks to its high resolution and excellent colour reproduction. It has simultaneous composite video and Super VHS outputs to connect an external monitor, recording system or imaging equipment.

Monitor Option

The 8.4” TFT monitor enables viewing external video source images: endoscopy camera, video player, etc. Optionally, the monitor has VGA input and tactile monitor, which makes it the ideal system to manage an external PC without the need of mouse or keyboard. The monitor includes power and adjustment controls below the screen.

It permits a safe and comfortable examination in all endoscopic actions, as monitor and patient are placed at the same level so that the doctor never loses sight of the working area.

Light Source for Endoscopic Use

A cold light source with connection for Storz type fiber optic cable can be added to the backrest. It has 150w power and double lamp for a quick change.

Mechanical Diaphragm (optional)

To regulate the intensity of the light, always maintaining the same colour temperature.

CHAIR DIMENSIONS
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td><strong>UP / DOWN MOVEMENT</strong></td>
<td>Electrical</td>
</tr>
<tr>
<td><strong>BACKREST AND LEGREST MOVEMENT</strong></td>
<td>Electrical</td>
</tr>
<tr>
<td><strong>PROGRAMMABLE MEMORIES</strong></td>
<td>4 (Up to 36 with 9 users, optional for OP-S14)</td>
</tr>
<tr>
<td><strong>MOVEMENT CONTROL</strong></td>
<td>4 keyboards and (foot pedal optional)</td>
</tr>
<tr>
<td><strong>SAFETY BLOCKING</strong></td>
<td>Stop and safety in a single key</td>
</tr>
<tr>
<td><strong>EMERGENCY STOP</strong></td>
<td>E-stop button</td>
</tr>
<tr>
<td><strong>UPHOLSTERY</strong></td>
<td>PUR melting, no seams, latex free, washable (available in several colours)</td>
</tr>
<tr>
<td><strong>ARMRESTS</strong></td>
<td>Folding armrests</td>
</tr>
<tr>
<td><strong>HEADREST</strong></td>
<td>Variable height and inclination. Removable</td>
</tr>
<tr>
<td><strong>CHAIR ROTATION</strong></td>
<td>Adjustable headrest optional</td>
</tr>
<tr>
<td><strong>TRENDELENBURG POSITION</strong></td>
<td>Pre-programmed movement</td>
</tr>
<tr>
<td><strong>80º NASAL EXAMINATION POSITION</strong></td>
<td>Pre-programmed movement</td>
</tr>
<tr>
<td><strong>SLIDING BACKREST</strong></td>
<td>Synchronized with movement</td>
</tr>
<tr>
<td><strong>MAINS CONNECTION</strong></td>
<td>110-240V/50-60Hz</td>
</tr>
<tr>
<td><strong>CONNECTION BETWEEN POWERBOX AND CHAIR</strong></td>
<td>21V, 33V, video and communication signal</td>
</tr>
<tr>
<td><strong>MAXIMUM POWER (WITHOUT EXTERNAL DEVICES)</strong></td>
<td>400VA</td>
</tr>
<tr>
<td><strong>BACKREST ANGLE</strong></td>
<td>From 80º to 190º</td>
</tr>
<tr>
<td><strong>SEATING HEIGHTS</strong></td>
<td>Max. 910 mm - Min. 530mm</td>
</tr>
<tr>
<td><strong>DIMENSIONS (BETWEEN BASE TRIMS)</strong></td>
<td>600 (w) x 730 (h)</td>
</tr>
<tr>
<td><strong>MAXIMUM LOAD</strong></td>
<td>200kg</td>
</tr>
<tr>
<td><strong>OPTIONAL ACCESSORIES</strong></td>
<td>100mm radius depth and height adjustment</td>
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<tr>
<td><strong>ADJUSTABLE HEADREST</strong></td>
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<td><strong>OPTIONAL ACCESSORIES FOR OP-S14</strong></td>
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<tr>
<td><strong>EXTERNAL DEVICE CONTROL</strong></td>
<td>4 connectors (On/Off)</td>
</tr>
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<td><strong>EXAMINATION MONITOR</strong></td>
<td>8’4” TV/VGA Monitor</td>
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<tr>
<td><strong>LCD DISPLAY</strong></td>
<td>User selection. Warnings and chair status information</td>
</tr>
<tr>
<td><strong>INTEGRATED CAMERA IN MONITOR</strong></td>
<td>1/3” CCD - 490 TV lines high resolution</td>
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<tr>
<td><strong>FRONTAL EXAMINATION SPOTLIGHT</strong></td>
<td>High brightness and great colour reproduction</td>
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<tr>
<td><strong>COLD LIGHT SOURCE</strong></td>
<td>Composite video and S-Video output in powerbox for secondary monitor</td>
</tr>
<tr>
<td><strong>35w halogen – cooled</strong></td>
<td></td>
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<tr>
<td><strong>LED - Storz type connection</strong></td>
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Specifications are subject to change without notice