REF 161204

Accuracy and Flexibility

Fig. 1

Fig. 2

Fig. 3

KERATRON® SCOUT INTRA-OPERATIVE

With trolley base, weight-balanced arm and disposable sterile covers.

KERATRON® SCOUT FIXED

To fit on any slit lamp or on its own optional x-y-z base with chinrest.

KERATRON® SCOUT PORTABLE

Equipped with headrest and battery power supply module Keratron® Scout widens Optikon's line of corneal topographers to serve users who need a compact, transportable instrument.
Advanced industrial design and high miniaturization technology has resulted in a practical and manageable unit which keeps the features of precision measurement and reliability that have made the Keratron® the reference topographer in the field.
The Keratron® Scout's operability can be adapted to the user's requirements through a variety of options.
On a slit lamp (Fig 1): By means of a slide adaptor plugged in the tonometer socket, the operator can use the joystick of the lamp in order to precisely align the instrument.
The Scout can be pivoted out of the way in a lateral position with the slide completely lengthened so the slit lamp can be used without its interference. (Fig. 2)
By inserting a battery power supply module into its base the Scout becomes portable. Measurements are easy to acquire and reliable because of the headrest device (Fig.3) and the "repeatability check" feature.
The intra-operative weight-balanced arm (Fig. 4) allows easy alignment of a reclining patient's eye even if the patient is not able to fixate. The degrees of movement of this system, combined with controls available to the operator at the display, and software features like the "Move axis," make intra-operative use very easy. The sterile disposable covers guarantee sterility of the operating field.

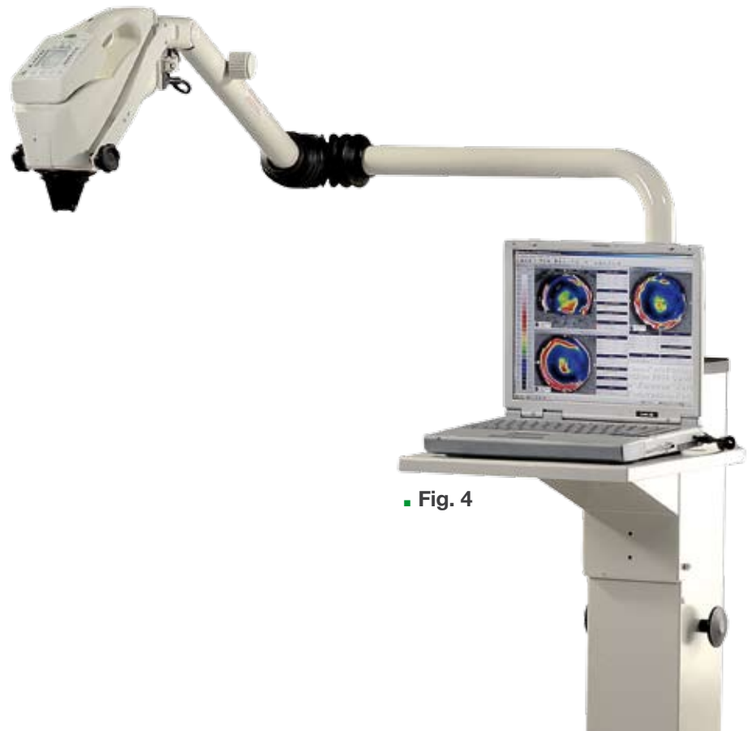

Fig. 4

TECHNICAL FEATURES Keratron® Scout

CONFIGURATIONS

- **PORTABLE**
  Battery or cable operated
- **FIXED**
  Easily mounted on any slit lamp
- **INTRAOPERATIVE**
  Balanced arm surgical trolley, disposable sterile plastic covers

VIDEOKERATOSCOPE

- **AREA OF ANALYSIS**
  10mm x 14mm (visible on the monitor)
- **KERATOSCOPE CONE**
  28 border mires, equally spaced on a 43D sphere
- **ANALYZED POINTS**
  Over 80.000
- **MEASURED POINTS**
  7168
- **CORNEAL COVERAGE**
  From 0.33mm (minimum diameter on a 43D sphere) up to 11mm on a normal eye
- **DIOPTRIC POWER RANGE**
  From 1D to over 120D
- **RESOLUTION**
  +/- 0.01D - 1 micron
- **FOCUSING DEVICE**
  Eye positioning Control System EPCS (patented) automatic acquisition, with decentration correction
- **OTHER FEATURES**
  "OK" button and OD/OS acquisition keys, reverse OR keys, low-power standby function, tiltable mires cone (0°-10°)
- **TV CAMERA**
  High resolution (C.C.I.R.)
- **MONITOR**
  4" B&W
- **WEIGHT**
  1 Kg approx
- **ACCESSORIES INCLUDED**
  Calibration set, Scout software

COMPUTER (Recommended Minimal Requirements)

- **ENVIRONMENT**
  MS Windows 2000/XP/Vista/7
- **PROCESSOR/MEMORY**
  Pentium III 450MHz, minimum 64 Mb RAM
- **DISKS**
  Internal 10 Gb HD, internal 8x CD-Rom, drive 3 1/2" - minimum 1.44Mb
- **MONITOR**
  Super VGA color monitor 14", 1024x768 points, 16 million colors
- **PRINTER**
  Color printer
- **PORT**
  USB Port

SOFTWARE

- **DIOPTRIC SCALE**
  Absolute, Normalized, Adjustable
- **KERATOMETRIC VALUES AND INDICES**
  K-readings, Meridians, Hemimeridians, Maloney Indices, Eccentricity
- **PUPIL**
  Photopic and Scotopic
  Border detection, diameter and decentration
- **ZONES AND GRIDS**
  3,5 and 7 mm, orthogonal axis or millimeter grid
- **MAPS**
  Local curvature, axial curvature, wavefront OPD or Wfe refraction map with 3D insert
- **MOVE AXIS**
  Position of the axis selectable as corneal vertex, pupil center or any other choice
- **PRINT**
  Print of the axis selectable as corneal vertex, pupil center or any other choice
- **SPECIAL FUNCTIONS**
  Profiles, difference, repeatability check, maps comparison, caliper, refraction calculator