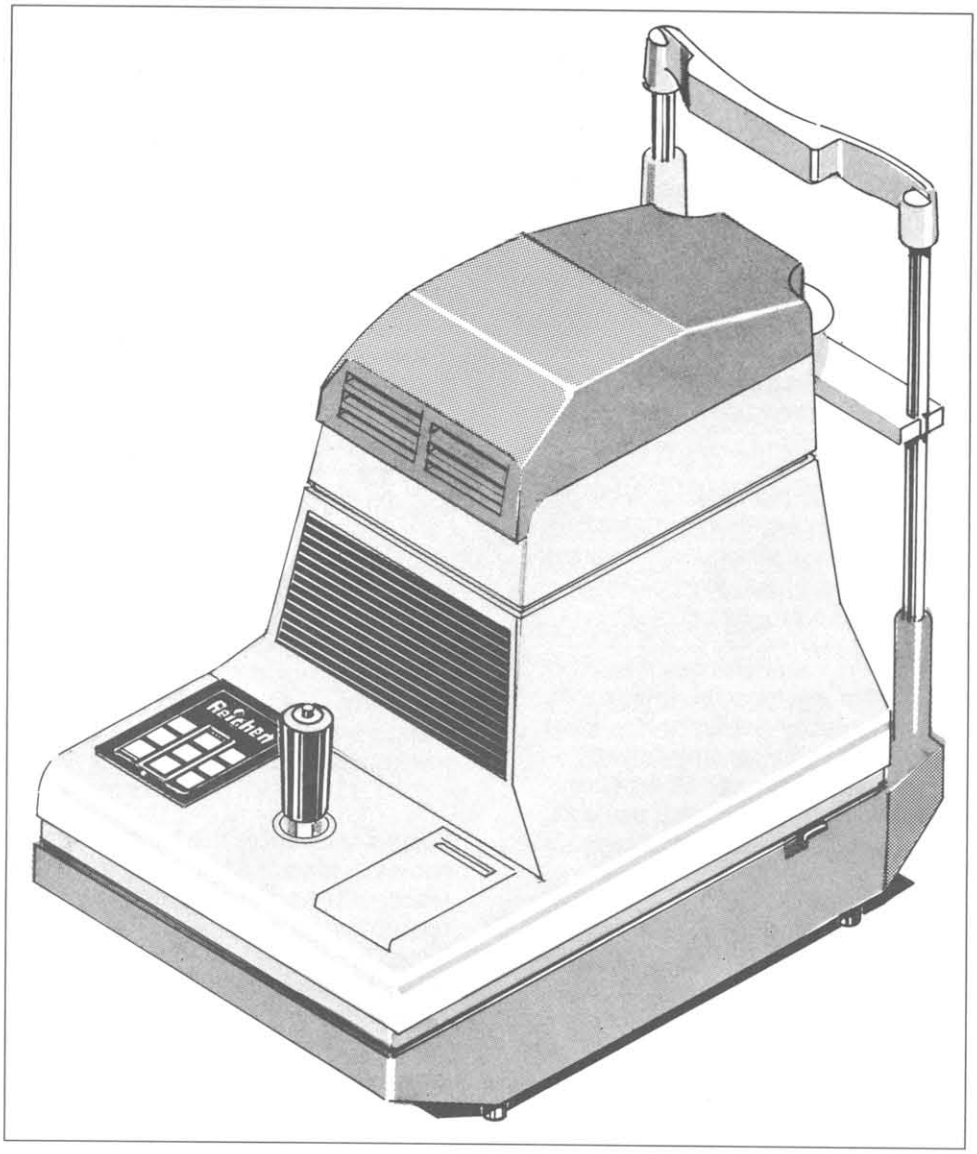
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INSTRUCTION MANUAL

XPERT™ NCT™

Advanced Logic Tonometer



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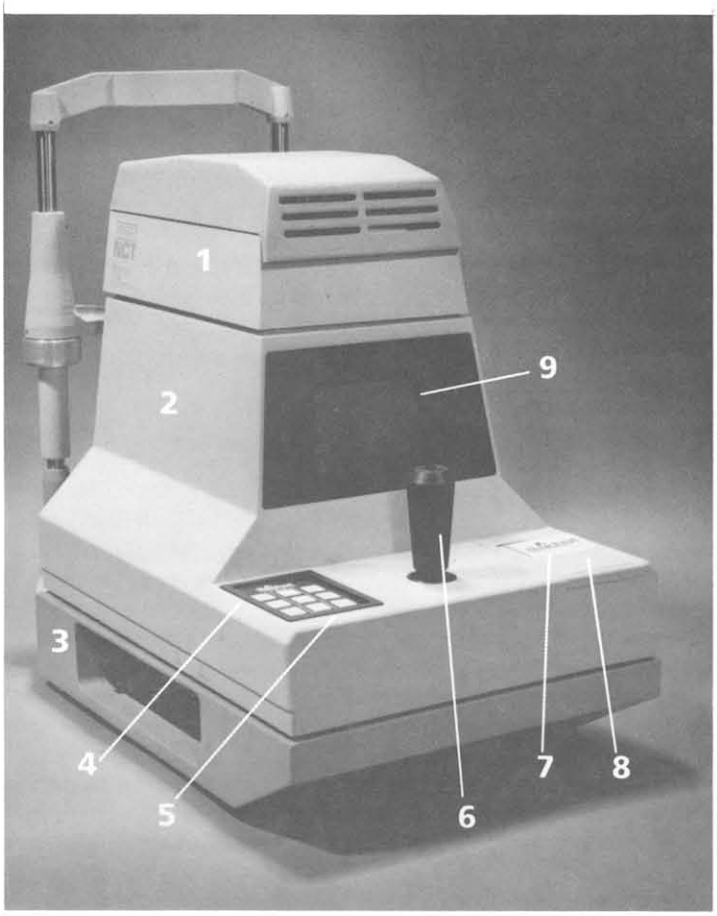
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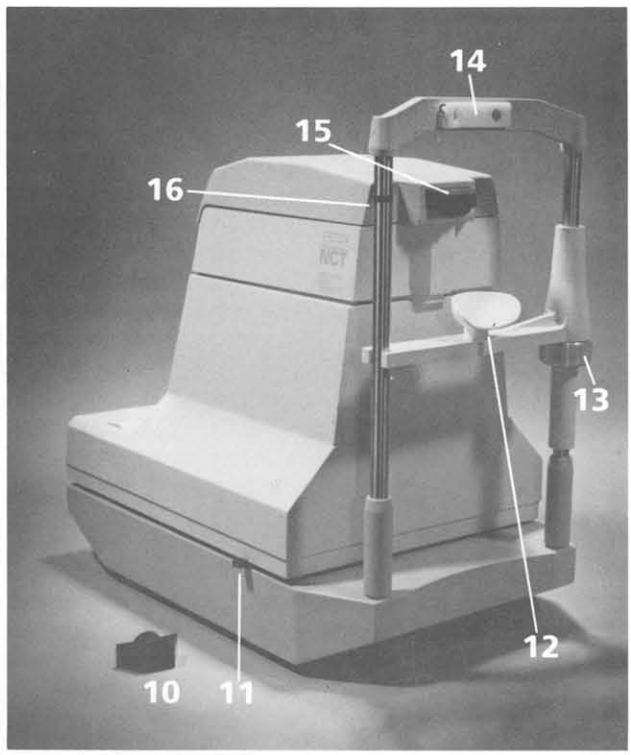
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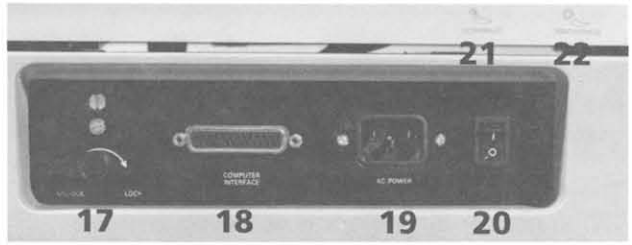
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PRODUCT

This manual should be used in reference to the Reichert XPERT™ NCT™ Advanced Logic Tonometer Model 12430.

PACKAGE CONTENTS

Contents of the shipping container should include the following:

1 XPERT NCT Advanced Logic Tonometer
1 Power Cord
4 Rolls of Printer Paper
1 Dust Cover
1 Instruction Manual

INSTRUMENT COMPONENTS

1. Camera Section
2. Control Section
3. Base Section
4. Control Panel
5. Power Indicator Light
6. Joystick
7. Printer
8. Printer Cover
9. Video Monitor
10. Objective Cover
11. Forward Stop Lever
12. Chin Cup
13. Chin Rest Elevation Ring
14. Forehead Rest
15. Objective
16. Canthus Marker
17. Travel Lock Knob
18. Computer Interface
19. AC Power Inlet
20. Power Switch
21. Contrast Control
22. Brightness Control

INTRODUCTION

The XPERT NCT Advanced Logic Tonometer is designed to provide the control and flexibility required in clinical practice.

The XPERT NCT's video monitor and unique three dimensional XPERT Alignment System™ allow the objective measurement of intra-ocular pressure (IOP) quicker and easier than ever before.

For added convenience and flexibility, the XPERT NCT features help screens, automatic data averaging and analysis, as well as selective data deletion. Furthermore, the instrument is equipped with a computer interface and printer to accommodate various record-keeping methods.

SYSTEMS

The XPERT NCT utilizes two infrared (IR) opto-electronic systems (OES). The first OES monitors the instrument's position relative to the eye. The alignment status is then translated and displayed as cursors in three dimensions superimposed on a video image of the patient's eye.

The second OES monitors IR light reflected from the cornea to determine when applanation occurs.

These systems are integrated by a microprocessor. When proper alignment is achieved and the instrument is in the automatic mode, the microprocessor activates an electro/mechanical air pump which produces and directs an air pulse toward the patient's eye. In the manual mode, this process is initiated by pressing the black button on the joystick.

When applanation is detected, the system discontinues the air pulse. The force used to achieve applanation is measured and the correlating IOP (in mmHg) is displayed on the monitor.

CONTRAINDICATIONS

Use of the XPERT NCT is contraindicated in instances of:

A. Edematous/ulcerated cornea
B. Following keratoplasty
C. Following penetrating trauma

INSTALLATION

INSTRUMENT STAND

1. Check to see that the power switch (20) is in the "OFF" position and carefully lay the XPERT NCT on its side.
2. Attach the adapter (12418) to the tonometer base plate with the three screws provided (See Figure 1).
3. Insert the adapter post into the mounting hole in the arm of the stand.
4. Turn the knob on the instrument arm until post is stable. Instrument should swivel freely.
5. Plug the power cord into the base of the instrument and the arm receptacle.

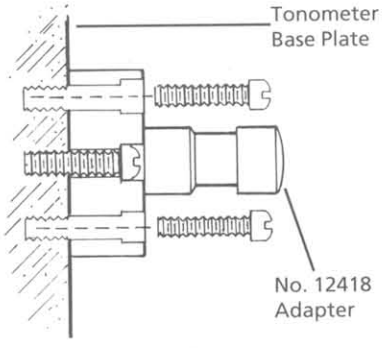


Figure 1

TONOMETER TABLE

1. Check to see that the power switch (20) is in the "OFF" position. Position the XPERT NCT on the middle of the table so the video screen is over the single leg.
2. Align the holes in the XPERT NCT's base plate with the two holes in the table.
3. Feed the screws supplied with the table from the underside of the table into the base plate of the instrument (See Figure 2).
4. Tighten screws so the instrument is secure, but do not over tighten.

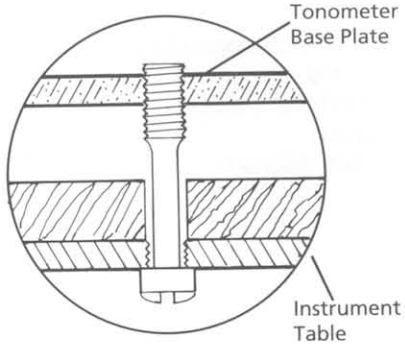


Figure 2

THE CONTROL PANEL

The XPERT NCT features a multi-function control panel (See Figure 3) which is described below.

THE CLEAR KEY

This key clears all readings.

THE DEMO KEY

When the DEMO key is pressed, a demonstration of the air puff is initiated.

Each time the instrument is demonstrated, an internal check is conducted. If a message other than "INSTRUMENT OK" appears on the video monitor (9), refer to the section entitled Trouble Shooting.

THE PRINT KEY

Pressing the PRINT key will generate a printout containing the date, time and current readings for each eye. If operating in the Average mode, the printout will include the average IOP for each eye. The printout will also contain a line where the patient's name may be written.

Please Note: Pressing the PRINT key clears all readings from both the monitor and the XPERT NCT's memory.

For automated practices, measurement data is sent concurrently to the XPERT NCT's computer interface (18) in ASCII, a format compatible with most computer software packages.

THE AVG/SNG KEY

The XPERT NCT provides the option of taking single readings or an average of up to three readings. To select the desired mode, press the AVG/SNG key. The selected mode will appear on the video monitor (See Figure 4). When the power is turned on, the Average mode is automatically selected.

Please Note: Switching from one mode to the other erases all previous readings.

I. The Average Mode

The Average mode allows up to 3 readings for each eye to be collected and displayed on the video monitor. The average of the readings, displayed to one decimal place, will appear at the bottom center of the monitor (See Figure 4).

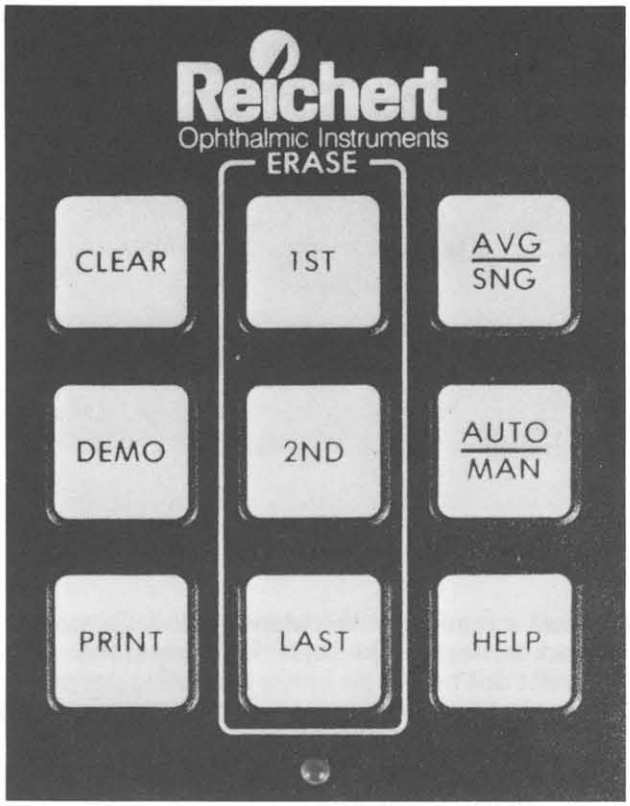


Figure 3

The XPERT NCT allows for one or more of the readings to be erased (See ERASE KEYS in this section and the section entitled FLYERS).

Please Note: If a fourth reading is collected while in this mode, the three previous readings and the average will be deleted.

II. The Single Mode

In the Single mode, individual measurements are displayed and each successive measurement replaces the previous one. Therefore, readings are not accumulated and no average will appear.

THE AUTO/MAN KEY

The XPERT NCT can be operated in either the Automatic or Manual mode. To select the desired mode, press the AUTO/MAN key. The selected mode will appear on the video monitor (See Figure 4). When the power is turned on, the Automatic mode is initiated.

I. The Automatic Mode

In the Automatic mode, the XPERT NCT automatically takes a measurement when proper alignment is reached.

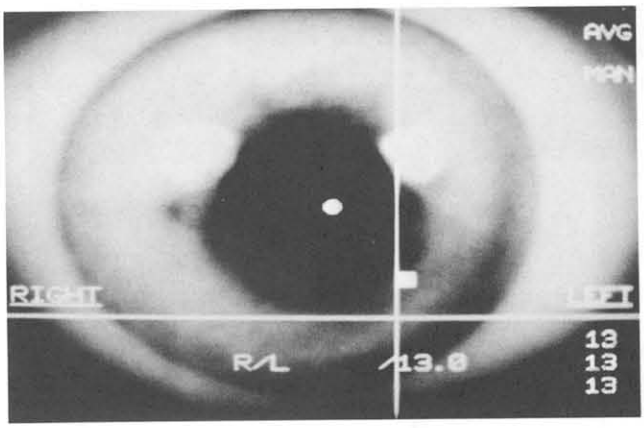


Figure 4

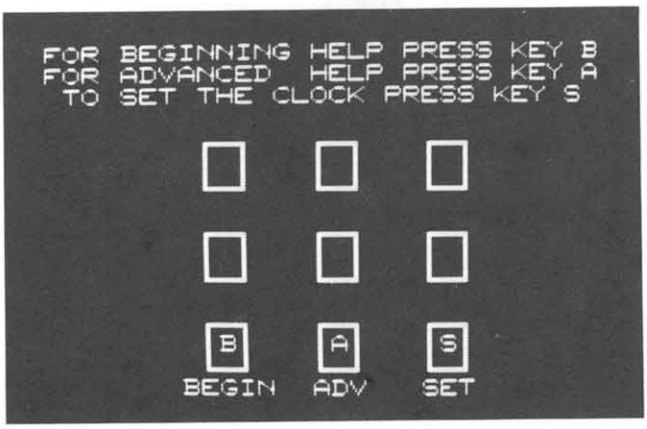


Figure 5

II. The Manual Mode

To collect a reading in the Manual mode, press the black button on the joystick (6) when the alignment dot begins to blink, indicating proper alignment.

For patients whose corneal condition precludes measurement in the Automatic mode, measurement may be possible in the Manual mode.

In the Manual mode, a measurement can be taken even if the alignment criteria are not met. Since measurement errors may result from misalignment, operation in the Automatic mode is recommended whenever possible.

THE ERASE KEYS

The XPERT NCT makes it easy to delete and replace readings in both the average and the single reading modes. A reading can be deleted by pressing one of the three ERASE keys; 1ST, 2ND or LAST.

In the Average mode, the ERASE keys allow the convenient substitution of readings. An irrelevant reading (See section entitled FLYERS) can be erased, replaced with another measurement and incorporated into the average.

To delete a reading, press the appropriate ERASE key. 1ST will delete the first reading taken on the current eye. 2ND deletes the second reading and LAST will delete the last reading, regardless of the number of readings appearing on the monitor.

The instrument is now ready for a substitute reading to be taken. Once this measurement is taken, it is automatically incorporated into the average for that eye.

Please note: If a fourth reading is taken before erasing one of the previous readings, all currently displayed readings and the average will be deleted.

In the single mode, a reading may be erased by pressing the 1ST key.

THE HELP KEY

The HELP key provides access to many user-friendly programs. These programs provide important information on the operation of the XPERT NCT and can be used to provide quick reference at any point during operation. These programs include Beginning Help, Advanced Help, and Setting Date and Time.

To select a program press the HELP key. Three choices will appear on the monitor: "BEGINNING HELP," "ADVANCED HELP" and "SET CLOCK" (See Figure 5). To enter a program, press the key on the control panel corresponding to the program desired.

I. Beginning Help

Press the key represented on the video monitor by "BEGIN" to view step-by-step operating instructions.

To page forward or backward through the help screens, press the key represented on the video monitor with the label "PRINT:Prev" or "LAST:Next." To exit Beginning Help, press the key represented on the video monitor by the label "HELP:Done."

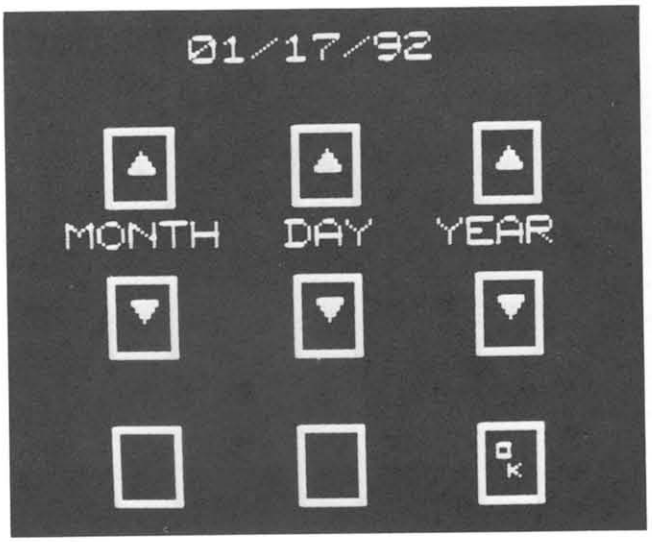


Figure 6

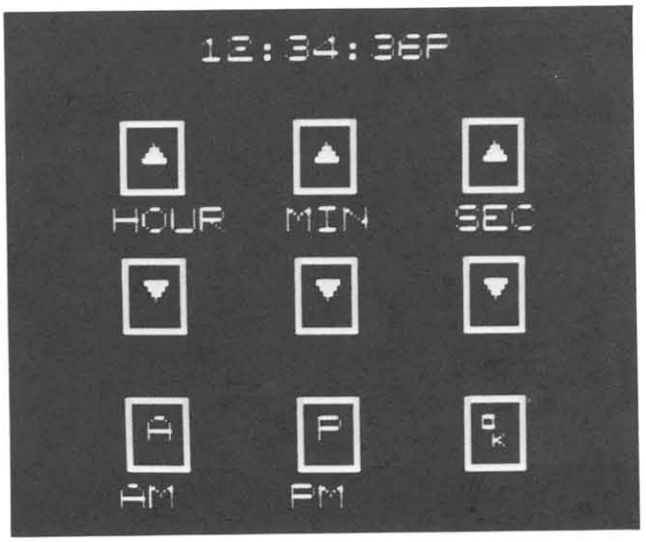


Figure 7

II. Advanced Help

For descriptions of the control panel functions, instrument features and troubleshooting, press the key represented on the video monitor as "ADV."

To page forward or backward through the help screens, press the key represented on the video monitor by the label "PRINT:Prev" or "LAST:Next." To exit the Advanced Help mode, press the key represented on the video monitor by the label "HELP:Done."

III. Set Date and Time

The internal clock/calendar should be checked/set the first time the XPERT NCT is turned on.

For user convenience, the XPERT NCT automatically adjusts the date for leap years. The time, however, must be reset to accommodate seasonal time changes and/or time zones.

To set the clock/calendar:

1. After pressing the HELP key, select the key represented on the video monitor by the label "SET."
2. The first screen to appear is the Set Calendar screen. Nine squares, representing the XPERT NCT's control panel, will appear on the video monitor (See Figure 6). Seven of the squares represent the functions needed to change the calendar.
3. Set the calendar by pressing the function key representing the setting to be changed.

For example, to advance the month, press the key represented on the monitor by an upward pointing arrow over the word "MONTH." Repeat the same procedure to set the day and year.

4. When the calendar is set properly, press the key represented on the video monitor by the label "OK."
5. A second screen with nine squares will appear indicating the function keys needed to set the clock (See Figure 7).
6. Press the key representing the function to be changed as described above.
7. When the time is set properly, press the key represented on the video monitor by "A" (for AM) or "P" (for PM) to set the time of day.
8. When the correct time is displayed, press the key represented on the video monitor by the label "OK" to return to normal operation.

OPERATING PROCEDURES

INSTRUMENT PREPARATION

The following steps should be taken prior to operation of the XPERT NCT.

1. Check to ensure travel lock (17) is disengaged.
2. Remove the objective cover (10).
3. Turn the instrument on by pressing the power switch (20). Note that the power indicator light (5) is lit.
4. Read the text which appears on the screen.
5. Press any key to begin normal operation.

Each time the XPERT NCT is turned on, an internal check is initiated. After a few seconds, the message "SYSTEM CHECK OK - PRESS ANY KEY TO CONTINUE" will appear on the video monitor (9). If any other message appears, refer to the Trouble Shooting section of this manual.

When the XPERT NCT is switched on, it will be set to operate in the Automatic mode. To select the Manual mode, press the AUTO/MAN key. The message "MAN" will appear on the video monitor (See Figure 8). The XPERT NCT is also set in the Average mode when turned on. To select the Single mode, press the AVG/SNG key. The message "SNG" will appear on the monitor (See Figure 8).

To extend the video monitor's life , the screen will go blank if no measurements are taken within five minutes. To resume normal operation, press any key on the control panel or the black button on the joystick (6).

6. Familiarize yourself with the joystick's operation. Rotating the joystick moves the camera section (1) up or down. Movement of the camera section left, right, forward or backward is accomplished by moving the joystick in the desired direction.

INSTRUMENT DEMONSTRATION

To allow an interested patient to experience the sound and sensation of an air "puff", have the patient place a finger approximately 1/4 inch in front of the objective (15). Press the DEMO key located on the control panel to demonstrate the air puff on the patient's finger (See DEMO KEY in the CONTROL PANEL section). Wait four (4) seconds between demo firings.

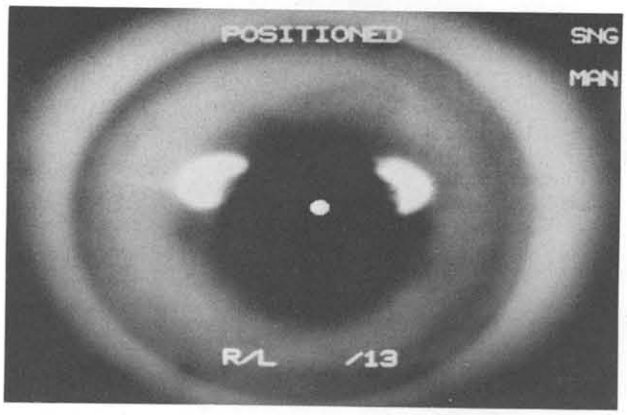


Figure 8

PATIENT ALIGNMENT

The collection of accurate/reliable IOP data requires that the patient be positioned comfortably.

1. Position the patient comfortably in front of the instrument. Check to see that the objective is at eye level with the patient, adjusting table height if necessary.
2. Check that the XPERT NCT is positioned as far from the patient as possible.
3. Place the patient's chin in the chin cup (12). Check to ensure that the patient's forehead is centered and placed firmly against the forehead rest (14). When the patient's forehead is positioned correctly, the message "POSITIONED" will appear on the video monitor (See Figure 8).
4. Using the chin rest elevation ring (13), raise or lower the chin cup so the patient's outer canthus is aligned with the canthus marker (16).

SETTING THE FORWARD STOP

1. Set the XPERT NCT to the Manual operating mode. "MAN" will appear on the video monitor.
2. Standing at the right of the instrument with the objective furthest from the patient, adjust the height of the objective so that it is level with the patient's pupil. The camera section is adjusted by rotating the joystick clockwise or counter-clockwise.
3. Place left hand on body of instrument and right hand on the forward stop lever (11).
4. Press the forward stop lever down and carefully move the instrument toward the patient until the objective is approximately 1/4 inch from the patient's cornea (See Figure 9).
5. Release the forward stop lever and slowly pull the instrument away from the patient.

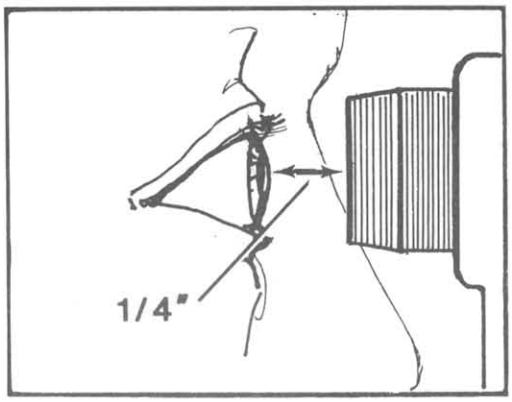


Figure 9

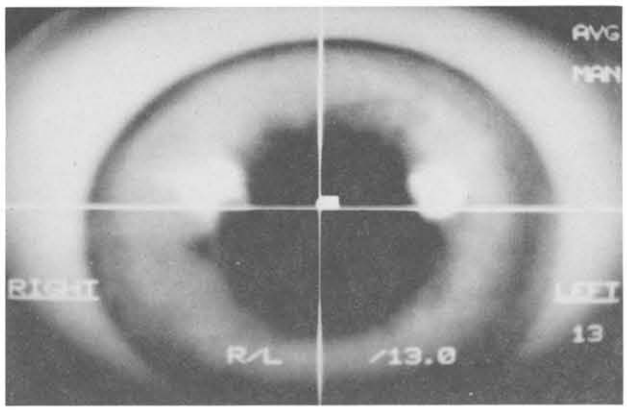


Figure 10

6. Set the XPERT NCT into the Automatic mode if desired.
7. The XPERT NCT is now ready to collect measurements.

INSTRUMENT ALIGNMENT AND OPERATION

1. Ensure that the XPERT NCT is in the desired mode for operation and collection of readings.
2. Instruct the patient to fixate on the green light when it comes into view.
3. Move the camera section forward until the image of the patient's eye appears on the monitor.

If the image of the eye appears too dark or too light, adjust the brightness (22) and contrast (21) controls located under the left side of the instrument.

4. Center the alignment dot on the pupil using the joystick.
5. Slowly move the instrument toward the patient until the alignment cursors appear (See Figure 10).

The distance between the objective and the patient's cornea is indicated by the vertical position of the box (See Figure 10). The lines represent the horizontal and vertical positioning of the objective relative to the patient's eye.

6. Carefully refine the three-dimensional alignment, as described below.

   a. Move the horizontal cursor into the center of the alignment dot by rotating the joystick.
   b. Center the vertical cursor by moving the joystick to the right or left.
   c. Finally, move the joystick toward the patient, causing the box to move up the vertical cursor until it is at the same height as the alignment dot.

If the instrument is too close to the eye, the box will be positioned above the alignment dot. If the instrument continues to move toward the patient's eye, the warning message, "TOO CLOSE," will appear on the video monitor. Pull the joystick back to move the camera section away from the patient.

7. The instrument is positioned correctly for measurement when the horizontal and vertical cursors intersect at the alignment dot and the box is at the same height and slightly to the right of the dot (See Figure 11).

In the Automatic mode, the instrument will collect a measurement when proper alignment is reached.

In the Manual mode, the alignment dot will blink indicating that the cursors are properly aligned. Press the black button on the joystick to initiate the measurement process.

8. Pull the joystick back to move the camera section away from the patient.

Please Note: In the Automatic mode, if the instrument is not pulled away from the patient, a fourth reading may be taken accidentally. Should this occur, all readings will be deleted.

After a measurement is taken, the alignment dot will briefly disappear until the instrument is ready to take another measurement.

A reading is displayed on the video monitor in the "LEFT" or "RIGHT" column (See Figure 11) depending on the eye being measured. Readings are displayed in mmHg and are rounded to the nearest integer.

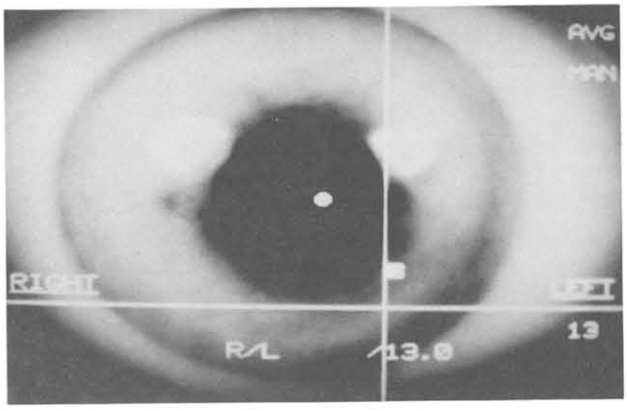


Figure 11

If applanation is not detected, the message "NO APPLANATION" will appear on the video monitor. If applanation is reached but the measurement is of low confidence an asterisk will appear next to the reading in question (See section entitled LOW CONFIDENCE READINGS).

9. In the Average mode repeat steps 3 through 8 until three readings are collected.
10. Position the XPERT NCT in front of the patient's other eye and repeat steps 3 through 9.
11. Press the PRINT key to obtain a copy of the readings displayed on the video monitor, or to send measurement data to the computer interface. All readings will be deleted after being printed.

Please Note: If no printout is needed, all measurements should be deleted by pressing the CLEAR key.

12. The instrument is now ready for the next patient.

FLYERS

XPERT NCT measurements are made in a few milliseconds and occur at random relative to the ocular pulse. Therefore, normal measurement fluctuations of 2 to 4mmHg should be anticipated due to the cardiac-related pulse amplitude. When a series of successive measurements are taken on a given eye, one or more readings may appear to be erroneously high due to involuntary reflexes such as blinking.

An example is illustrated below:

IOP Readings (mmHG):

16, 24, 14

The reading 24 in this example is a disparate reading. Although each reading may be an accurate IOP determination for the instant of measurement, a grand average computed for this sequence of readings would be erroneously high.

The disparate reading should be deleted and replaced (See ERASE KEYS in the CONTROL PANEL section).

Please Note: In the Average mode, the disparate reading must be erased before a fourth measurement is taken. If a fourth reading is taken while in this mode, all three previous readings will be erased.

LOW CONFIDENCE READINGS

An untimely blink of the eye can result in measurements which do not meet the XPERT NCT's criteria. These measurements are highlighted with an asterisk on the video monitor. If the reading is printed the asterisk will appear on the printout as well. These "low confidence" measurements can be deleted and replaced (See ERASE KEYS in the CONTROL PANEL section).

ATMOSPHERIC PRESSURE

The XPERT NCT compensates for departures from standard sea level atmospheric pressure whether due to change in weather or altitude.

TRAVEL LOCK

When moving the XPERT NCT from room to room, it is recommended that the travel lock be engaged to prevent the body of the instrument from sliding on its base. To do this:

1. Line the front of the XPERT NCT even with the base.
2. Turn the travel lock knob clockwise so that the lock is holding the instrument firmly in place.

Please Note: Do not engage the travel lock when packaging the instrument for shipment.

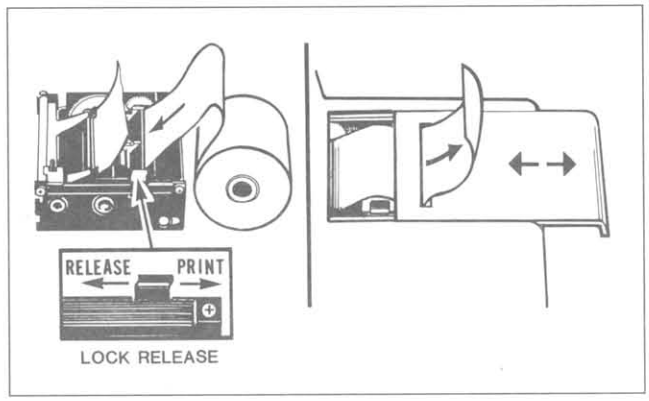


Figure 12

SAFETY

Design considerations and recommended dust protection measures (See section entitled MAINTENANCE) virtually eliminate the possibility of a foreign particle being propelled by the air pulse. As a precaution, it is recommended that the instrument be discharged at least once (See DEMO KEY in the CONTROL PANEL section) following a long period of non-use.

MAINTENANCE

PRINTER PAPER

A colored stripe will appear when nearing the end of the roll. To replace the paper (See Figure 12):

1. Turn the XPERT NCT off. When the XPERT NCT is turned off, all measurements will be deleted. Therefore, it is recommended that the paper be replaced after completing the measurement process of one patient and before going on to the next patient.
2. Remove the printer cover (8) by sliding it toward you. Note the threading diagram on the underside of the cover.
3. On the left side of the printer, slide the release lever forward. Pull out any remaining paper.
4. Remove the old paper roll.
5. Cut a clean edge of the new roll.
6. With free end of paper on the bottom of the roll and facing the video monitor, drop the roll into printer.
7. Thread the paper through the slot in the printer. Make certain that the paper is not skewed.
8. Move the release lever to the print position and turn the large white gear to feed about three inches through the printer.
9. Thread the paper through the printer cover and slide cover back into place.

Use only Reichert Thermal Paper, available at your nearest Reichert Ophthalmic Instruments Dealer.

DUST COVER

When use of the instrument is not anticipated for a period of several hours, power should be turned off and the dust cover used.

CHIN CUP

The chin cup is easily removed by twisting counterclockwise 90 degrees and pulling up. The cup is made of a durable material which can be sterilized (maximum temperature: 250° F or 121° C) or washed with soap or alcohol.

FOREHEAD REST

May be wiped clean with water or alcohol.

OBJECTIVE

The exposed plastic front surface of the objective must be kept free of dust, finger- prints, tear stains, and mascara. At least once a week this surface should be cleaned using a dry cotton swab or soft, lint-free cloth.

To protect the objective against damage or dirt, be sure to cover the objective with the objective cover when transporting.

TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE AND REMEDY
Power indicator not lit	Power switch is not turned on. Switch is located on left side of base. Should be in the up position, press indicator to turn on. Power cord not attached. Ensure power cord is firmly connected to the instrument and to a working power outlet. If the above remedies do not help, the internal fuse may have blown. It is NOT a user replaceable fuse. Contact your dealer for service. There are NO USER SERVICEABLE PARTS in the XPERT NCT.
No video image, power indicator lit	The brightness control is too low. Turn brightness control until image appears. Unit is in "SLEEP" mode. Press any key or the black button on the joystick to re-activate.
Text appears on video monitor but no eye image	Remove objective cover. The contrast control is too low. Turn CONTRAST control until image appears. No image will appear unless an object is in front of objective. Place hand in front of objective to reflect light.
No average is displayed	Unit is in Single Mode. Press AVG/SNG key on control panel to activate Average mode.
Instrument does not discharge when properly aligned	Unit is in Manual mode. Press AUTO/MAN key on control panel to activate Automatic mode.
Instrument appears to fire before cross-hairs are aligned	Alignment is checked more often than cross-hairs are updated to avoid "jittery" cross-hairs. Instrument will not fire unless aligned.

SYMPTOM	POSSIBLE CAUSE AND REMEDY
No print out when "PRINT" key is pressed, video monitor reads "CHECK PRINTER"	Paper roll is depleted. Insert new paper roll as per instructions. Paper release lever is in RELEASE position. Slide paper release lever towards you to engage paper feed.
"POSITIONED" does not appear on video monitor when patient is positioned	Patient must press forehead against the forehead rest to assure steadiness.
Video monitor reads "UNIT FAILS SYSTEM CHECK NEEDS SERVICE" when "DEMO" key is pressed	Unit is out of calibration. Readings can still be taken but accuracy is unknown. Have instrument serviced.
Time and/or Date is wrong on print out	Set the clock/calendar as per instructions.
"UNIT FAILS SYSTEM CHECK - NEEDS SERVICE" appears on screen when unit is turned on "UNIT FAILS SYSTEM CHECK - NEEDS SERVICE" appears during multiple "DEMO" firings	The XPERT NCT performs several internal checks to insure that all of its systems are working. When this message appears, some component of the unit has failed. The instrument will still operate but accuracy is unknown. Have instrument serviced. Turn instrument off, wait five seconds, then turn it on again.
"DATE/TIME MAY BE INCORRECT" appears on the video monitor when unit is first turned on	Set the clock as per instructions. If message reappears the next time the instrument is turned on, the battery may need to be replaced. Have instrument serviced.
In the Automatic mode, the message "NO APPLANATION" or the asterisk appears repeatedly	Have instrument serviced.
Retrace lines appear on video monitor (diagonal lines on screen)	Adjust brightness and contrast.
Cursors "jump"	Caused by dirt or eyelashes obstructing the IR beam. 1. Clean the objective (See page 15). 2. Instruct patient to "OPEN WIDE."
Vertical lines appear on video monitor	Check electrical grounding; if wall plug is okay, have instrument serviced.

OTHER REICHERT PRODUCTS

To complement your Reichert Premier XPERT NCT Advanced Logic Tonometer, we invite you to take a look at the other products* made by Reichert Ophthalmic Instruments:

Ful-Vue Diagnostic Instruments
Keratometer
Lensometer
LongLife Project-O-Chart
Monocular Indirect Ophthalmoscope
Non-Contact Tonometer (NCT) II
Prelude Contact Tonometer
Prelude Slit Lamps
Premier Auto Recline Chair
Premier Manual Recline Chair
Premier Console
Radiuscope
Selectra P-O-C Advanced Projection System
Standard Project-O-Chart
Ultramatic RxMaster Phoroptor
Refracting Instrument
Vistamaster Giantscope
Vertometer
Verhoeff Stereoptor
XPERT NCT Advanced Logic Tonometer

* See Reichert Brand Names/Trademarks/ Tradenames for a list of trademarked names.