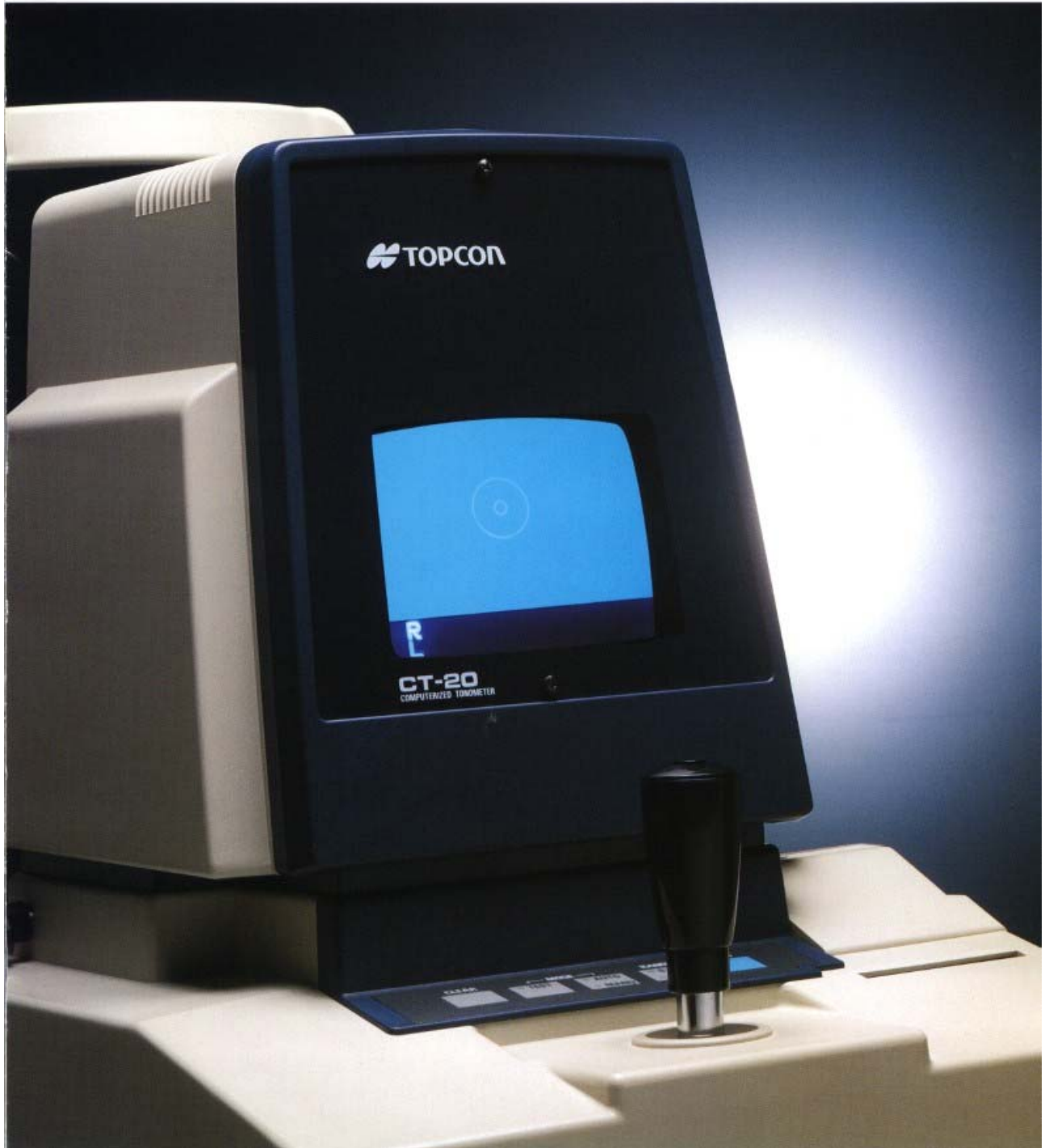




CT-20

COMPUTERIZED TONOMETER



Innovative
Convenience
Plus
TOPCON
Precision for
Accurate &
Comfortable
IOP Measurements

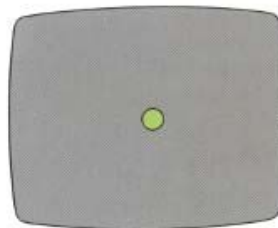
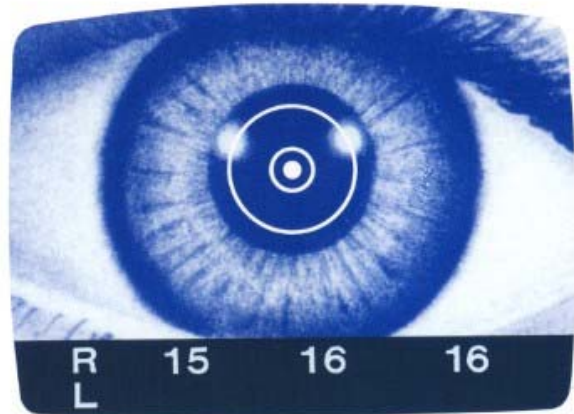
The improved new
Computerized Tonometer CT-20
incorporates innovative functions
that make IOP measurement faster,
more comfortable and
safer than ever before.
TOPCON's careful attention to
ergonomic design makes the CT-20
simple to use, even for novice operators.
Strict production standards assure
total precision in measuring results.



Unprecedented Patient Comfort; Simple Operation a fully-automated, comprehensive IOP examination that's fast, safe and comfortable

Increased Comfort & Safety

- 1 The new CT-20 offers yet another TOPCON innovation in patient comfort and safety. Air puff pressure can be preset at standard (0-30mmHg) level or at a higher (0-60mmHg) setting when required for patients with increased intra-ocular pressure.
- 2 The device is also equipped with an auto-shut-off mechanism that stops air flow instantly when the IOP measurement has been completed. This limits the duration of the air puff to the minimum level required for accurate measurement.
- 3 Infrared lighting provides the main illumination for the CT-20; eliminating the need for harsh, bright visible lighting, increasing patient comfort.
- 4 Additional safety and comfort features include: an adjustable safety stopper that prevents the air nozzle from coming directly into contact with the patient's eye, the adjustable internal fixation target allows Automatic Optical Compensation for every patient and a front-positioned chinrest adjustment for quick, easy manipulation from the operators side.



Computer-Automated Measurement Procedure



1



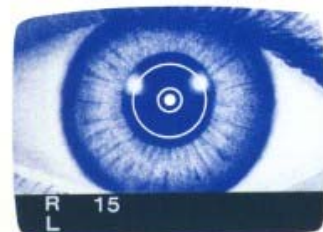
The operator simply centers the pupil by aligning the concentric center circles, then by centering the two luminous spots that appear on the TV screen; measurement is activated automatically.



2



The internal processing circuitry of the CT-20 allows up to three consecutive measurements for each eye, with data stored in memory as each measurement result is displayed. One-touch printing of single measurements and of averaged data is possible.



3



Automatic circuitry shuts down the CT-20 after 10 minutes of non-use, conserving energy and increasing system life.

High Resolution TV Monitor

1 The pupil is clearly visible in the high resolution TV monitor, making alignment exceptionally simple. Sophisticated microprocessor circuitry automatically activates the measurement process when proper alignment is achieved.

2 Accurate IOP data is displayed at the bottom of the monitor screen, with left/right indication. Brackets [] are used to indicate possible error. Both the pupil and measurement data are clearly visible to the operator

Convenient Joystick Operation

The unique TOPCON omni-directional joystick system allows fast, easy one-hand alignment; providing positive and accurate adjustment.

Simplified Control Panel

Pressure-sensitive, one-touch switches are arranged in a single row behind the joystick for quick access during the measurement procedure.

1. erase previous measurement values.
2. conduct self-check procedure or demonstrate measurement procedure to patient
3. switch between Auto/Manual measuring modes.
4. switch between high/low measurement ranges.
5. print out measurement data.



JUN_12_ '89 PM 02:12				
	mmHg			AUG
R	13	11	11	12
L	11	11	12	11
CT-20 TOPCON				

Optional Manual Control



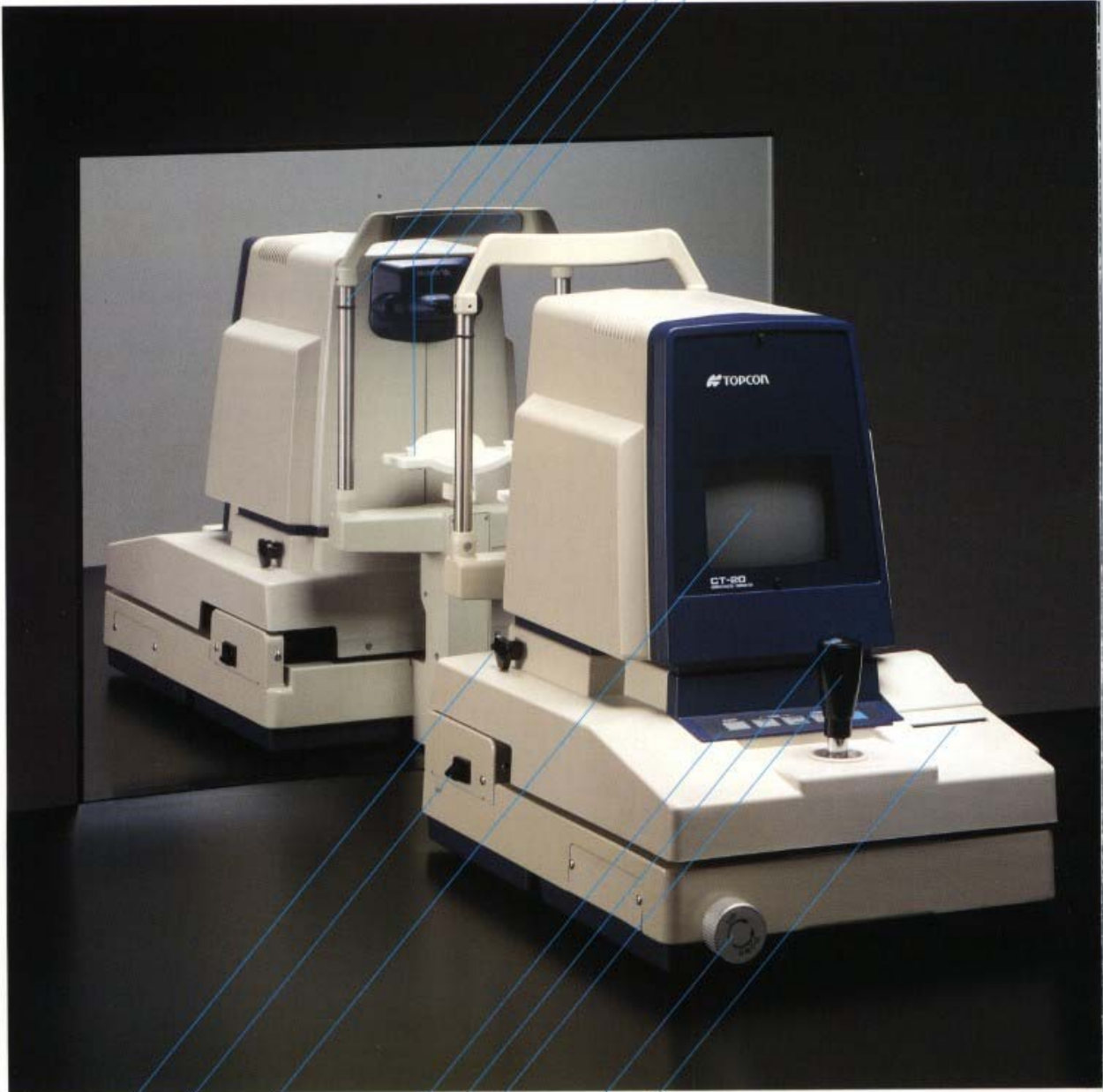
The CT-20 can be operated in a fully manual mode allowing the opportunity to override the automatic measurement mode. Alignment procedure is similar to that used in automatic mode, however, measurements are not made automatically. Instead, the system is activated manually by a touch of the trigger switch atop the joystick. The alignment circle displayed in the monitor blinks to advise that accurate alignment has been achieved.

Built-In Printer

The CT-20 features a built-in printer that provides a hardcopy of all stored IOP data at the touch of a button. Up to three individual measurements plus an averaged value can be printed for each eye from either the automatic or manual modes. Date and time are also printed, together with space for hand copying the patient's name or code number. A simple message of up to 3 lines, 20 characters per line, can be printed out additionally together with measurement data.

Nomenclature

- Canthus marker
- Chinrest
- Measuring nozzle
- Forehead rest



- TV monitor
- Printer
- Locking knob
- Safety stopper knob
- Omni-directional joystick
- Chinrest elevation control knob
- Measuring switch
- Control panel switch

Specifications

Measurement Range:

0-60mmHg
two switches for 1) 0-30mmHg
2) 0-60mmHg

Measurement Time:

Approx. 3 msec.

Adjustment-Free Internal Fixation Target:

Diopter compensation range for patient's eye:
- 13 diopter to +14 diopter

Working Distance:

11mm

Measurement Display:

TV Monitor Screen

*R/L change-over...automatically detected and displayed.

*Up to three measurement of each eye can be displayed and printed out

Measurement Recording:

Built-in printer

Measurement Mode:

Auto/Manual....selectable

Alignment

When the alignment luminous spots are within the inner alignment circle,

*In Auto Mode...measurement is automatically activated.

*In Manual Mode...alignment circle blinks on and off, and depressing the switch on the omni-directional joystick activates the measuring cycle.

Error Indication:

When the measurement signal is not strong enough, IOP value is indicated in [] or just 'ERROR' is displayed.

Adjustable Safety Stopper:

Minimum distance between the front of the instrument and the patient can be established in advance.

Operating Temperature:

10° to 35°C

Base Travel:

44mm (back & forth)

84mm (left & right)

28mm (vertically)

Chinrest vertical travel:

60mm

Dimensions:

307(W) x 491(D) x 467(H)mm

Power Supply:

AC100, 120, 220 and 240V 50/60Hz

Power Consumption:

80VA ("auto-shut-off": power-saving mechanism adopted)

Weight:

Approx. 20Kgs.

Subject to change in design and/or specifications without advance notice.

Optional Accessories

Adjustable Instrument Table AIT-20, AIT-10B



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