

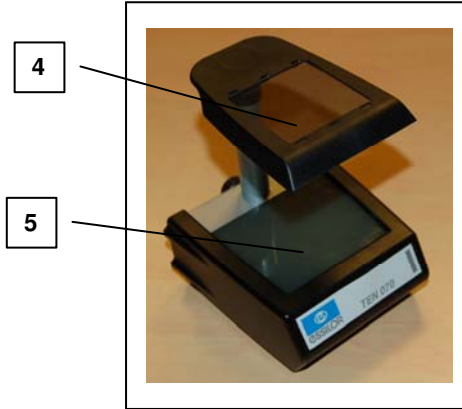


TEN 070

IMTEN070 V.4

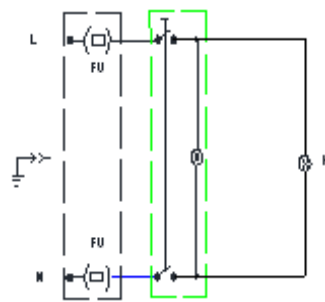
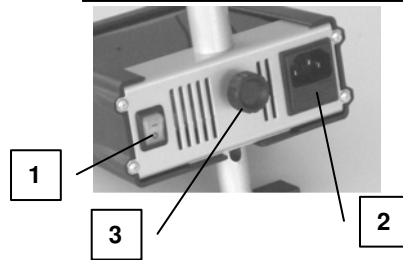
CONTROLS

1	Master switch
2	Power socket
3	Knob for inclination regulation
4/5	Polaroid filter

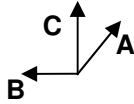


WIRING DIAGRAM

XS	Feed outlet with fuse
QS	Luminous master switch I
H	Lamp
FU	5x20 Fuse
F	1mm ² Black wire
N	1mm ² Blue wire



TECHNICAL DATA AND FEATURES



TENSIO METER

Machine	TENSIO METER Tensioning test	
Code	A2100	
Maximum length (A)	155 mm	
Maximum width (B)	135 mm	
Maximum height (C)	167 mm	
Machine weight	0.93 Kg	
Feed voltage	230 V \pm 10%	120 V \pm 10%
Maximum absorption current	0.05 A	0.09 A
Power	6 W	6 W
Frequency	50 Hz	60 Hz
Fuse	F 250mA L250V	F 250mA L250V



ENVIRONMENTAL WORKING

Max altitude	2000 m
Temperature	5 \div 40 °C
Max relative humidity	80 %

PROPER USE

TENSIO METER is utilized for checking stress on mounted lenses



Any other use than that for which the machine has been designed and manufactured described in this manual is to be considered "IMPROPER USE".
Therefore manufacturer declines any responsibility for possible damages caused to persons or to the machine itself.



The machine described above has not been designed to work in an explosive atmosphere or in the presence of inflammable vapours or liquids. Installation and use of same is therefore forbidden in these environments.

DANGERS AND RESIDUAL RISKS

Generally speaking, the machine does not give rise to any residual risks

INFORMATION FOR USER

In order to safeguard operator and avoid possible machine damage, it is essential to have studied user manual before carrying out any operation on same.

PACKING

Packing contains the following:

- Body of instrument
- Power lead
- Instruction, Use and Maintenance Manual

The machine has been designed to be moved by hand, without the necessity of additional lifting devices.



Throughout the period when packed machine remains inactive, awaiting to be put into operation, it is opportune to position it in a place safe from atmospheric agents.

UNPACKING

Once packaging has been removed no damage must be evident. On the contrary, Service Centre must be informed.



Disposal of packaging material will be carried out by customer in compliance with the regulations in force in the country where the machine is used.

PRE-ARRANGEMENT TO BE CARRIED OUT BY CUSTOMER

The user installs machine in suitable rooms, equipped with electrical system in compliance with regulations in force. Installation must be carried out in well-ventilated environments, dry and illuminated in compliance with current legislation.

INSTRUCTIONS FOR USER**CONNECTION AND START-UP**

Before carrying out connection, assure that mains voltage corresponds to that on machine plate and that master switch is on "0" (zero) position.

Position the instrument on a perfectly horizontal surface so as to guarantee an adequate stability; after having assured that the master switch is on "0" (zero) position, connect feed cable as per the circuit diagram inserting same first in machine side and subsequently into outlet.

START-UP

Start-up of machine is carried out by a voluntary action on master switch and is evidenced by the warning light on the front of the machine.

STOP MODES AND EMERGENCY STOP

It is possible to obtain the normal stop function of machine by bringing master switch onto position "0" (zero). The general emergency stop function may be obtained by disconnecting the feed cable from outlet.

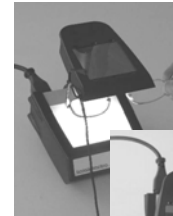


After an emergency stop or stoppage due to an anomaly or lack of electricity, always put master switch onto position "0" (zero).

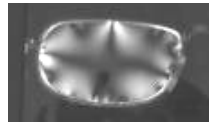
WORK EXAMPLES

- Start up machine
- Position the lens mounted on frame, between the two filters of the machine (1)
- Example of stressed lens (2)
- Slacken the knob positioned on the back side of the unit, in order to regulate the angle of the machine, and extract the foot according to needs, then tighten the knob for blocking the foot in the desired position; this operation gives the possibility to optimize the reading position. (3)

3



1



2

**MAINTENANCE**

Any modification causing an effect on operation or safety of machine, may only be carried out by manufacturer's technicians or by technicians formally authorized by same. On the contrary, Essilor declines any responsibility for changes or damages which may subsequently occur.

Essilor declines any responsibility for improper use of machine, for damages caused by operations not treated in this manual or which are unreasonable.



All ordinary and extraordinary maintenance operations are to be carried out with machine off, isolating same from power by disconnecting feed cable.

EXTRAORDINARY MAINTENANCE

Extraordinary maintenance is intended that carried out when machine stops due to break-down of mechanical or electrical parts.



For safety reasons final user is not permitted to carry out extraordinary maintenance operations. Contact Essilor or authorized Service Centre.

INSTRUCTIONS TO OBTAIN ASSISTANCE AND SPARE PARTS

For any communication with Service Centre, to be contacted c/o our offices, always quote machine type, serial number and year of manufacture written on label, which determine identification of each single machine and, whenever possible, specify the nature of the problem encountered or defect present on machine.
In order to guarantee a perfect machine operation, it is necessary that possible replacement of pieces are exclusively carried out with original spare parts having identical characteristics.

MACHINE CLEANING



Utilize a slightly damp cloth and non-aggressive detergent products.

Before carrying out this operation assure that machine is effectively in stop condition, disconnecting feed cable from mains.



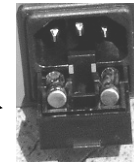
Infiltration of liquids may damage the electrical part of machine.

DIAGNOSTIC

Anomaly: Lamp does not switch on	
Possible cause	ACTIVITY
Fuse interrupted	It is possible to replace the fuse present in the socket drawer (*)
Master switch broken	Contact Service Centre
Lamp broken	Contact Service Centre



(*) In order to check condition of the fuse it is necessary to bring master switch to position "0" (zero), disconnect feed cable, open small drawer.



MACHINE DEMOLITION AT END OF USEFUL LIFE

The symbol with a crossed bin indicates that equipment must be collected separately from other wastes. The differentiated refuse collection of equipment at the end of useful life is organized and handled by manufacturer. The user who wants to dispose of material will have to contact manufacturer and follow the procedures that same has adopted for separate collection.

A proper differentiated collection of equipment helps avoiding possible negative effects on environment and health and favours re-utilization and/or recycling of materials composing equipment.

Unauthorized disposal of product by possessor will lead to application of fines, in compliance with regulations in force in the country where equipment is used.



DIRECTIVE REFERENCES AND STANDARDS APPLIED

Mandatory directives

Reference	Title
UE Directive no. 2014/ 35/ UE	Low voltage (DBT)
UE Directive no. 2014/ 30/ UE	Electromagnetic compatibility (EMC)
UE Directive no. 2011/ 65/ UE	Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Voluntary standards

Reference	Title
EN ISO 12100 (2010)	Machinery safety – fundamental concepts - General design principles Part 1 – Basic terminology/methodology Part 2 – Technical principles
EN 61010-1 (2010)	Safety prescriptions for electric measurement, control and laboratory equipments
EN 61326-1 (2013)	Equipment for measurement, control and laboratory use – Electromagnetic Compatibility prescriptions



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