

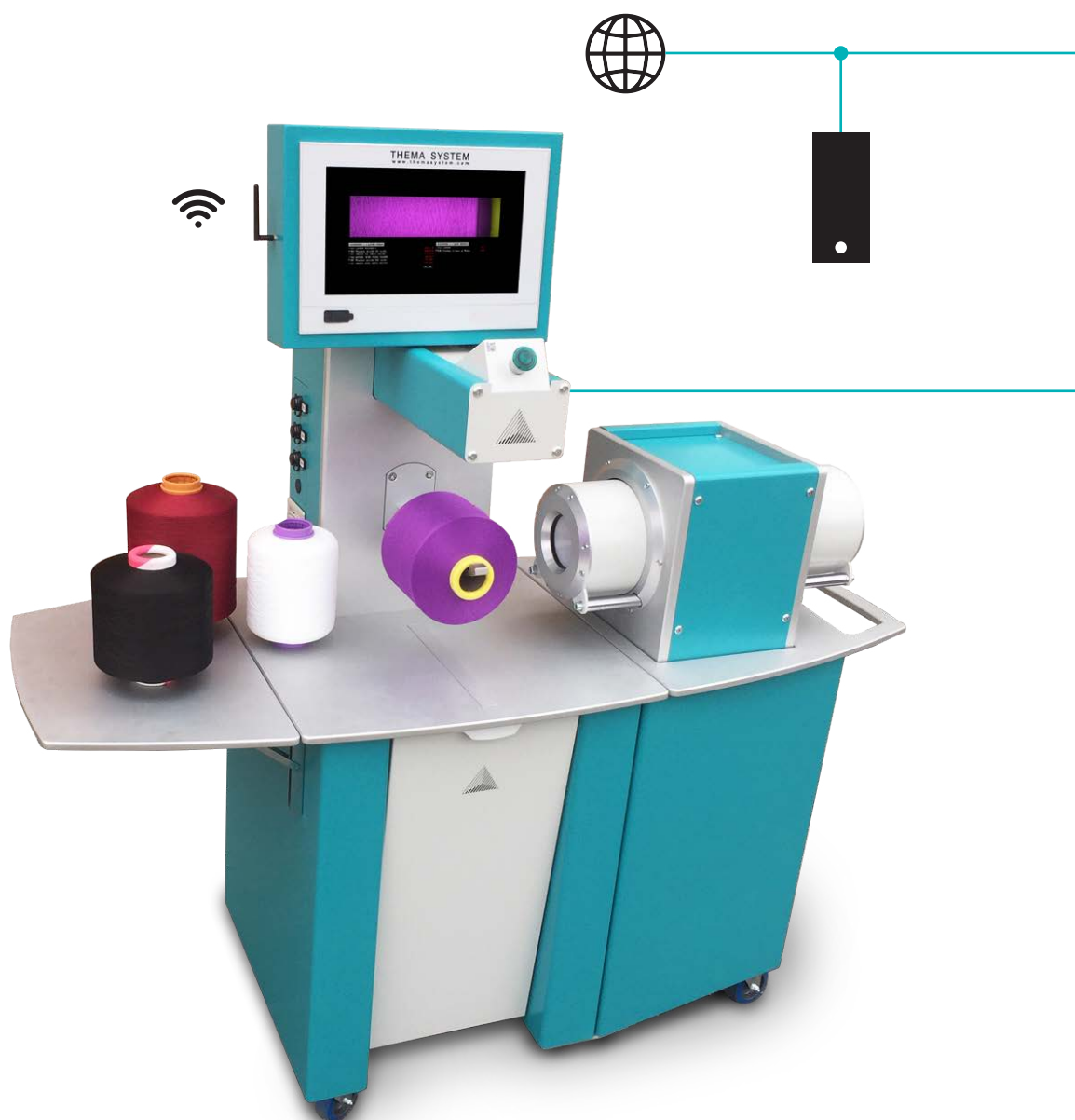
A NEW AGE IN QUALITY CONTROL

**ARA COLOR**

## ***Relative Color Control System***

**THEMA SYSTEM**

www.themasystem.com



The **Ara Color** instrument is able to **identify possible differences of color tones** between the yarn bobbins of the same production lot, is able to memorize the color of a sample bobbin (master) and then is able to verify, with extreme rapidity and precision, the differences of tone on the entire **outer surface** of the yarn bobbins of the whole lot.

Furthermore, by verifying the sides of the yarn bobbins it is also possible to check the yarn layer immediately in contact with the perforated tube and the outer edges of the bobbin itself, two points which, in some cases, may present critical issues due to the dyeing process.

The instrument is also **suitable for colored yarns during the spinning extrusion process**, where the uniformity of the guaranteed lots for the warping process or for automotive and carpets/rugs, require high quality standards.

All the detected parameters, in addition of being stored on the instrument PC, can be transmitted by a computer network (wireless or Ethernet cable) to the company management system and shared on a common DB for a complete traceability of the quality controls performed and a consequent correct production management.

## Resolution Data

|                      |              |
|----------------------|--------------|
| Unit                 | ARA          |
| Range                | 0.0 - 721.25 |
| Bobbin analysis time | Programmable |

## Working Conditions

|              |                       |
|--------------|-----------------------|
| Temperatures | 10/40 °C              |
| Humidity     | 90% (no condensation) |

## Bobbins Specifications

|                              |          |
|------------------------------|----------|
| Max. tubes lenght            | 290 mm   |
| Min. internal tubes diameter | 40/60 mm |
| Max. bobbins weight          | 12000 g  |
| Max. bobbins diameter        | 320 mm   |
| Min. bobbins diameter *      | 150 mm   |

\* Editable upon request.

## Electrical Characteristics

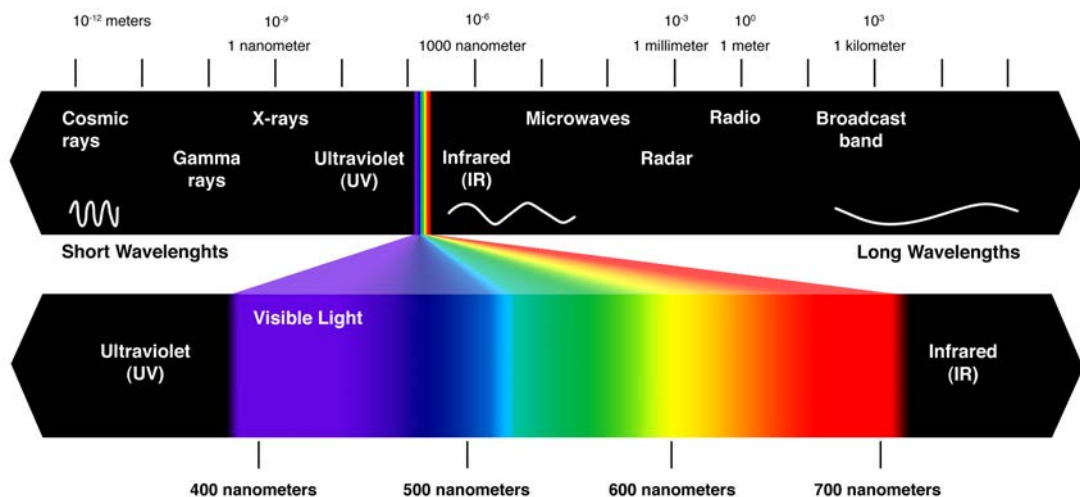
|                    |                  |
|--------------------|------------------|
| Nominal voltage    | 110 / 250 Vac    |
| Max. power         | 0.5 kWatt        |
| Connection         | Ph + Ph (N) + PE |
| Frequency          | 50 / 60 Hz       |
| IP                 | IP54             |
| Communication port | Ethernet         |

## Mechanical Characteristics

|                      |                           |
|----------------------|---------------------------|
| Dimensions L x H x P | 1750/1330 x 1800 x 800 mm |
| Weight               | 316 kg                    |

## SKILLS

- filter the effects due to the different surface of the bobbin for different yarn counts
- the geometry of the bobbin do not affect the measurements
- precision mechanical autofocus
- discriminate the color response to a multitude of frequencies of the reference light source



Specific personalization can be accordingly applied by our R&D Staff.



IPC-W

## INDUSTRIAL PC

### Main Characteristics

|                  |               |
|------------------|---------------|
| Operating system | Microsoft     |
| Database         | Microsoft SQL |
| Display          | 15 inch wide  |
| Touch-screen     | ✓             |
| Wi-fi            | ✓             |
| Ethernet         | ✓             |
| USB              | ✓             |

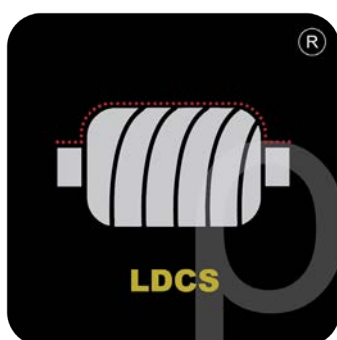


OR-BOX

## ORANGE BOX

### Tools for Calibration and Utility

|                      |   |
|----------------------|---|
| Certified calibrator | Designed to calibrate color, diameter and weight measurement at once and automatically.<br>Certified by the manufacturer. |
| Utility              | Technical manuals, wiring diagrams, pc keyboard, mouse, USB key, USB hub, touch-screen pen.<br>Universal adapter.         |



LDCS

## LDCS FUNCTIONS

### Resolution Data

|                         |                          |
|-------------------------|--------------------------|
| Density                 | < 0,01 g/cm <sup>3</sup> |
| Diameter                | 0,25 mm                  |
| Weight (0 ÷ 5999.9 g)   | 0,5 g                    |
| Weight (6000 ÷ 12000 g) | 1 g                      |
| Bobbins analysis time   | < 2 sec                  |



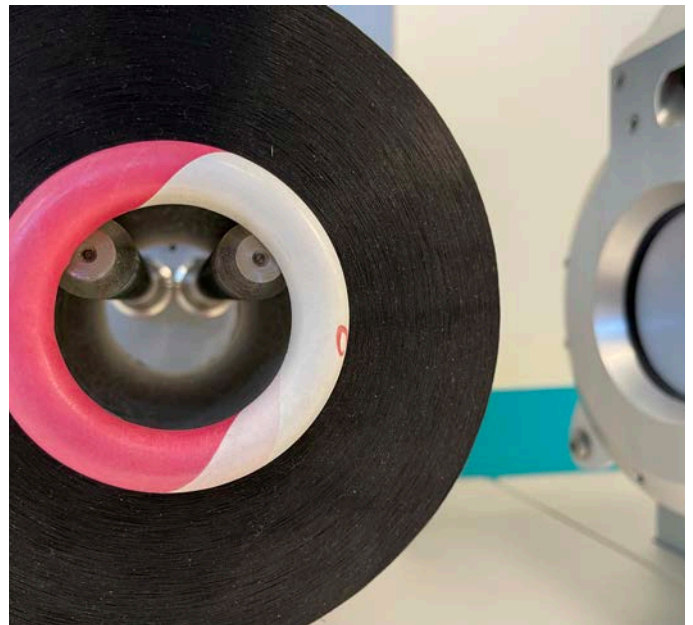
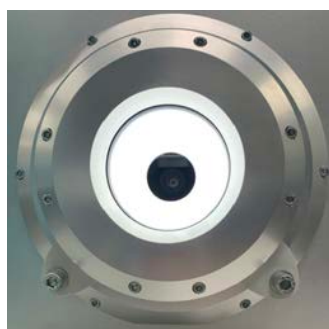
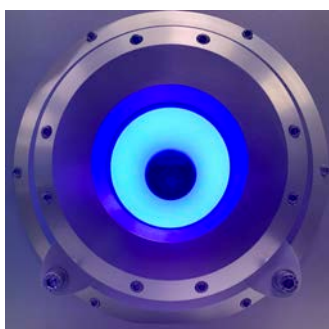
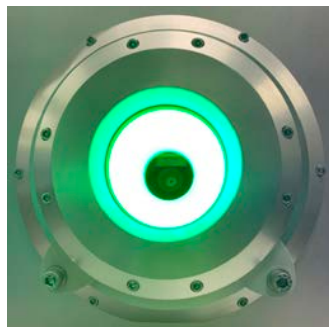
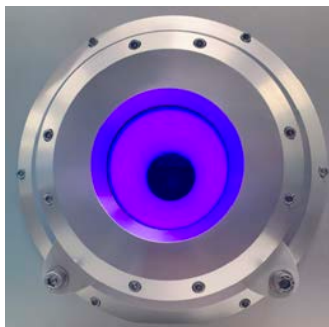
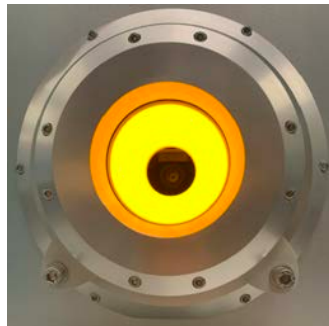
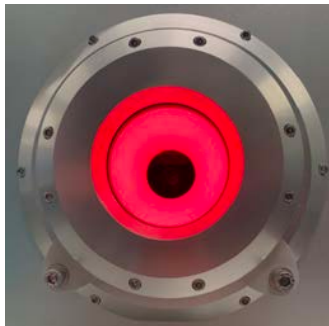
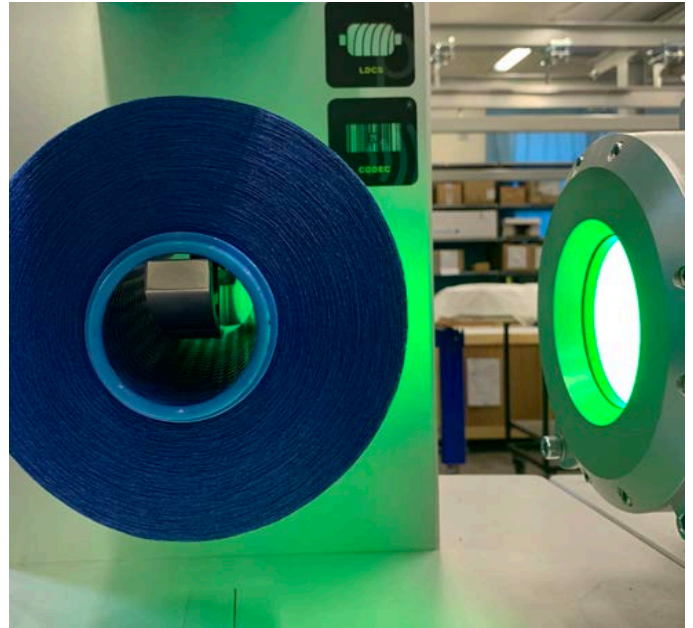
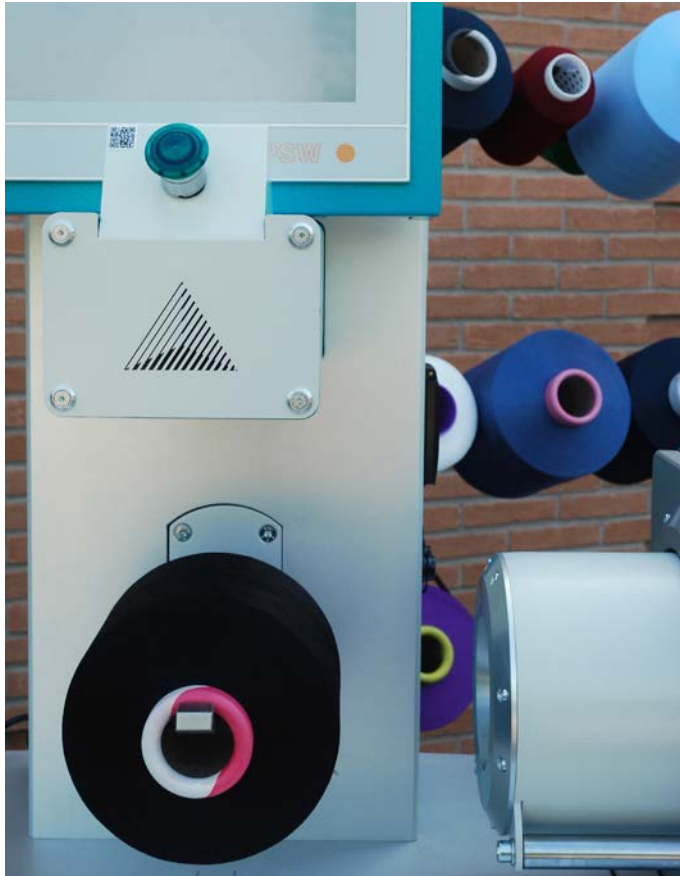
CODEC

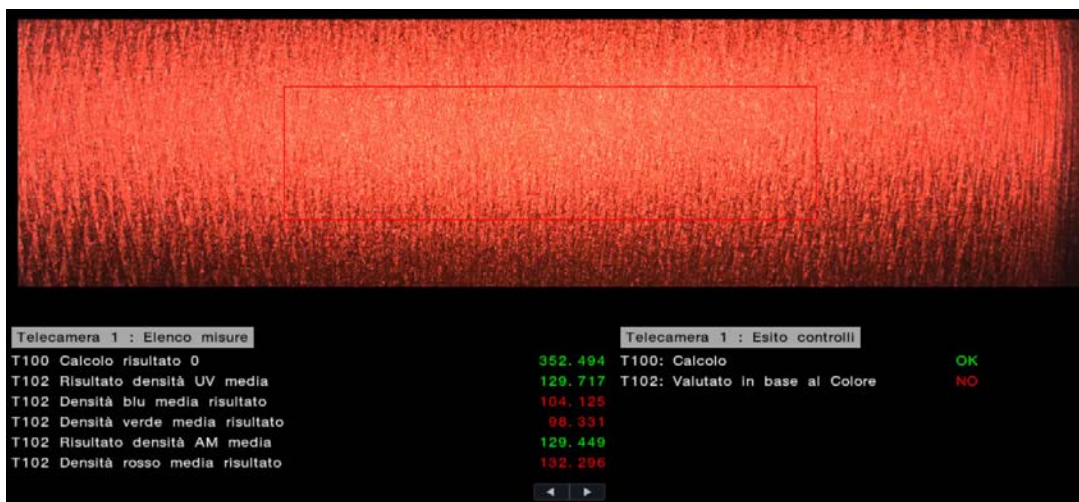
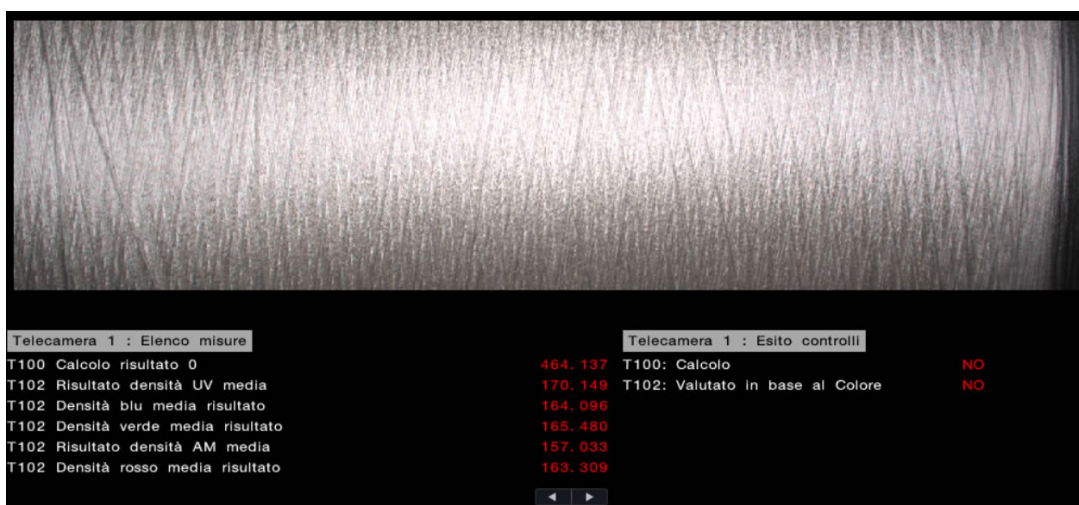
## CODEC



With the use of ID-tubes or label inside the tubes, the classification parameters can be automatically read and the data automatically written on the yarn bobbin/spool, with direct link to the DB.







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Made in Italy



**THEMA SYSTEM**

PARTNER OF

