

## Automated TAPPI Brightness

The Technidyne PROFILE/Plus TAPPI Brightness measures the following optical properties according to industry standards:

- Color
- Opacity
- Fluorescence
- TAPPI Brightness
- Color Difference

- + Brightness measurement
- + Fast evaluation of OBA's
- + Conforms to TAPPI standards
- + Internal calibration routine
- + Top-side/Bottom-side Measurements
- + Standardized Calibration
- + PROFILE/Plus Automated Testing System Ready



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## Features

### Automated Measurement

Technidyne has earned a reputation for excellence as the pulp and paper industry's leading supplier of optical quality measurement instruments. The PROFILE/Plus Brightness is the most advanced version ever of the tester that started it all more than 25 years ago and includes fully automated measurement of two-sided brightness and fluorescence.

### Meets TAPPI Standards

With a measurement so critical to the quality of the finished product, it makes sense to choose the instrument that measures up to the industry's most stringent standards. PROFILE/Plus Brightness is the only profiling brightness tester that performs in full compliance with TAPPI Official Test Method T452.

### Fast Evaluation of OBA's

PROFILE/Plus Brightness gives you a fast, accurate measurement of the impact of optical brighteners. The ultra-violet light absorbing filter is positioned over the light source, providing accurate readings quickly.

### Easy Operation

Easily recognizable icons help navigate the PROFILE/Plus Brightness instrument, when operating in stand-alone mode. The system software controls the automatic measurement of all properties.

### Top-side/Bottom-side Measurements

For labs requiring brightness measurements on both sides of the paper, this capability can be specified as an option. The PROFILE/Plus Brightness Tester can be equipped with measuring optics for both sides.

### Standardized Calibration

Mills who have depended on TAPPI brightness for years to meet their customers' demands will appreciate the standardized calibration process incorporated into the PROFILE/Plus Brightness. The instrument produces data that you can rely on to determine whether or not your products can be shipped.

### Comprehensive Reports

Whether reviewing multiple readings across a profile strip or just a single fluorescence evaluation the PROFILE/Plus Brightness offers a test report format to provide this essential data. It is presented in a concise and accurate manner that is ready to be printed or sent to a remote data collection host.

## Economic Benefits – Lowering Costs and Saving Money

PROFILE/Plus Brightness can perform fully **automated measurements** of brightness, thereby increasing efficiency and lowering overall testing costs.

PROFILE/Plus Brightness **meets TAPPI Standards** thus ensuring accurate and repeatable results that allow tighter operating targets and reduced production costs.

The **fast evaluation of OBA's** means that PROFILE/Plus Brightness can provide the information needed to make positive process changes to improve quality and enhance profitability.

**Top-side/Bottom-side Measurements** reduce overall testing time to improve feedback of results and help to optimize manpower resources.

The PROFILE/Plus Brightness **measures multiple properties simultaneously** thus speeding up data collection and optimizing testing resources to save time and money.

PROFILE/Plus customers have reported that savings can be realized in the areas of furnish, chemical addition, customer complaints, and reduced paper machine breaks. Manpower efficiency can also be improved by increasing the testing frequency and accuracy, which lowers the overall cost of testing.

## **PROFILE/Plus Automated Test System**

PROFILE/Plus is a unique building block approach to automated testing. Each PROFILE/Plus instrument is a standalone instrument that can be easily placed in line with other PROFILE/Plus instruments to operate as an automated test system. This one of a kind versatility allows you the flexibility to build an automated test system that can be established over time or all at once. In addition as your testing needs change, the versatility of the PROFILE/Plus provides the flexibility to modify the testing sequence or move other test in to or out of the system. PROFILE/Plus puts you in charge of your automated testing program. In today's ever changing markets, having a testing program that can adapt, is key to long term viability.



## Specifications and Technical Data

- + CD or MD profile strips
- + Single sheet samples (automatically)
  - o A3, A4, and 8½" x 11"
- + Handsheets
- + Thickness Range – 25 to 1000 µm
- + Grammage Range - 15 to 600 g/m<sup>2</sup>
- + Weight –
  - o 75 lb
  - o 34 kg
- + Dimensions –
  - o Height = 26" (66 cm)
  - o Depth = 18" (46 cm)
  - o Width = 10 ½" (26.7 cm)
- + Voltage/Frequency -
  - o 100-130 VAC/49-61 Hz
  - o 210-250 VAC/49-61 Hz
- + Air -
  - o 30 - 40 psi
  - o 205 - 275 Kpa



### Results:

**Brightness according to TAPPI  
T 452**

**Measurement completed in  
seconds!**

**Conforms to industry  
standards**

**Top-side/Bottom-side  
Measurements**

**Multiple measurement,  
averaging, statistics and  
trending capabilities**

**Average, Maximum Test Value,  
Minimum Test Value and  
Standard Deviation**

**Tabular and Graphical display  
of results**