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MILLIGRAM BALANCES

# MILI-TVG Touch Screen Glass Windshield Milligram Balance Series

**Milligram Balance | 100-600 g Capacity | 1 mg Readability | Touch Screen Glass Windshield | External Calibration**

MILI-TVG milligram balances are touch screen milligram precision balances with 1 mg readability and a transparent glass windshield for protection from air movement. The series covers 100 g to 600 g capacities and supports basic weighing, piece weighing, percentage weighing, check weighing, animal weighing and communication settings.

100-600 G

1 MG READABILITY

GLASS WINDSHIELD

EXTERNAL CALIBRATION

LCT SENSOR

RS232 / USB

OPTIONAL ACCUMULATOR

TOUCH SCREEN

Document type: **Technical Specification Sheet**

Product family: **MILI-TVG Touch Screen Glass Windshield Milligram Balance Series**

Capacity: **100 / 200 / 300 / 400 / 500 / 600 g**

Calibration: **External calibration**

Series characteristic: **1 mg touch screen weighing with glass windshield**

Format: **A4 landscape | COLO.Science TechSpec v2.5**



**MILI-TVG milligram balance | touch screen | glass windshield | 0.001 g readability**

MEASURING RANGE

**100-600 g  
d = 1 mg**

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MILLIGRAM BALANCES

# MILI-TVG | touch screen glass windshield milligram balance series

External calibration, 1 mg readability and touch screen glass windshield

MAX 600 G

D = 1 MG

GLASS WINDSHIELD

RS232 / USB OUTPUT

Touch screen models with touch screen glass windshield

## Series Overview

### Milligram weighing platform

**1 mg readability:** supports routine sample preparation, formulation and quality-control weighing.

**Touch screen control:** simple touch screen operation for direct access to weighing functions.

**Glass windshield:** fully transparent glass protection reduces the effect of air movement and keeps the sample visible.

**Fast stabilization:** stabilization time up to 3 seconds for efficient lab workflows.

### Construction and operation

**External calibration:** calibration with suitable external standard weight.

**Balance pan:** stainless steel 90 mm balance pan.

**Housing:** ABS environmental material with die-cast aluminum base.

**Functions:** basic weighing and piece counting with full-range tare.

### Data handling and usability

**Interface:** RS232 and USB for printer or computer connection.

**Optional accumulator:** 6 V 1.3 Ah lead-acid accumulator for backup power.

**Touch screen display:** clear touch screen interface with direct access to weighing modes.

**Units:** multiple laboratory units supported, including g, ct, oz, lb, kg, dr, gn and others.

### Key technical points

**SKU range:** PRO4725, PRO7008, PRO7009, PRO7010, PRO7011 and PRO7012.

**Model range:** MILI-TVG 100g/0.001g through MILI-TVG 600g/0.001g.

**Repeatability:**  $\pm 0.002$  g.

**Linearity:**  $\pm 0.002$  g.

**Size:** 280 x 190 x 270 mm.

MODELS

100-600 g

READABILITY

1 mg

CONTROL

Touch screen

STABILIZATION

3 s

## Model Selection and Technical Specifications

### Touch screen glass windshield model table

| SKU     | Model                | Capacity | Readability    | Repeatability | Linearity | Calibration | Windshield                    | Output interface |
|---------|----------------------|----------|----------------|---------------|-----------|-------------|-------------------------------|------------------|
| PRO4725 | MILI-TVG 100g/0.001g | 100 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |
| PRO7008 | MILI-TVG 200g/0.001g | 200 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |
| PRO7009 | MILI-TVG 300g/0.001g | 300 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |
| PRO7010 | MILI-TVG 400g/0.001g | 400 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |
| PRO7011 | MILI-TVG 500g/0.001g | 500 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |
| PRO7012 | MILI-TVG 600g/0.001g | 600 g    | 0.001 g / 1 mg | ±0.002 g      | ±0.002 g  | External    | Touch screen glass windshield | RS232 / USB      |

### Weighing system and performance

| Parameter                  | Specification  |
|----------------------------|--|
| <b>Model capacities</b>    | 100 / 200 / 300 / 400 / 500 / 600 g                  |
| <b>Readability</b>         | 0.001 g / 1 mg                                       |
| <b>Repeatability</b>       | ±0.002 g / ±2 mg                                     |
| <b>Linearity</b>           | ±0.002 g / ±2 mg                                     |
| <b>Stabilization</b>       | 3 s  |
| <b>Control / converter</b> | Touch screen control, high-speed 24-bit AD converter |
| <b>Tare range</b>          | Full range   |

### Display, interface and construction

| Parameter                 | Specification  |
|---------------------------|--|
| <b>Calibration</b>        | External calibration with standard weight                                  |
| <b>Windshield</b>         | Touch screen glass windshield  |
| <b>Power accumulator</b>  | Optional 6 V 1.3 Ah lead-acid accumulator                                  |
| <b>Interface</b>          | RS232, USB   |
| <b>Balance pan size</b>   | 90 mm diameter   |
| <b>Power requirements</b> | Adapter input: 100-240 V ~ 200 mA, 50-60 Hz, 12-18 VA; output: 5 VDC 2.5 A |
| <b>Overall size</b>       | 280 x 190 x 270 mm   |
| <b>N.W. / G.W.</b>        | 4 kg / 6 kg  |
| <b>Shipping dimension</b> | 43 x 30 x 41 cm  |

**Source note:** MILI-TVG SKU values and technical data were transcribed from the supplied model list and specification table. This sheet follows the MILIV layout, updated for touch screen operation, glass windshield construction and optional accumulator power.

## Applications, Calibration and Optional Accessories



**MILI-TVG milligram balance | glass windshield for air-movement protection**

### Typical laboratory applications

**Laboratory weighing:** precise weighing of reagents, standards, samples and prepared solutions.

**Quality control:** check weighing, formulation verification and batch consistency testing.

**Pharmaceutical and chemical work:** 1 mg readability for routine active ingredient and excipient checks.

**Educational use:** teaching weighing technique and routine balance operation.

**Piece counting:** small-component counting and kitting workflows.

### Optional accessories



**Optional thermal printer for measurement records**



**Optional OIML F1 calibration weights for external calibration/control**

**Ordering note:** this MILI-TVG sheet includes touch screen glass windshield models only. Select suitable F1 calibration weight nominal values according to the selected capacity, laboratory SOP and required calibration/control routine.

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**MANUFACTURER AND SUPPORT**

## COLO Lab Experts

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**Selection guidance:** send the intended capacity, smallest target mass, sample type, need for printer output and required external calibration routine.

**QUICK CONTACT**

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**Series:** MILI-TVG touch screen glass windshield milligram balance

COLO.SCIENCE | MILI-TVG MILLIGRAM BALANCE SUPPORT

## Need help configuring a MILI-TVG touch screen glass windshield milligram balance?

Send the selected capacity, weighing routine, external calibration requirement, printer/data-output requirement and documentation expectations. COLO.Science can confirm the MILI-TVG model, printer and F1 calibration weight set.

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[Weighing Catalogue](#)

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[Milligram Balances](#)

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[OIML F1 Weights](#)

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