PMA.Vision
The Connection to the Future

PMA.Vision

+180.0

turning science into solutions

The PMA.Vision Workflow

Welcome to the future in paint mixing: PMA.Vision Mixing Station from Sartorius will greatly simplify your daily work process. Speed up your color search and order processing with a Web-based software solution.

Mixing jobs can be easily and comfortably managed with mobile devices, such as a tablet or smart phone.

Jobs can be sent to the PMA.Vision and managed from any device on the network.

Using the new internal mixing module of the PMA.Vision, jobs are stored locally right on the scale, and can operate independently without a connection to a dedicated PC based mixing software.

Detailed results from the jobs are stored in the scale when the job is complete, and can be retrieved later for automatic stock control, VOC tracking, other reporting, etc.

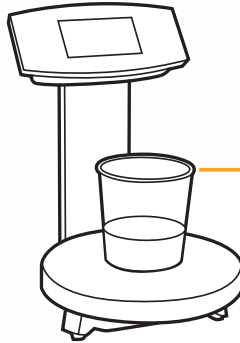**Online Color Database**

Data Transfer
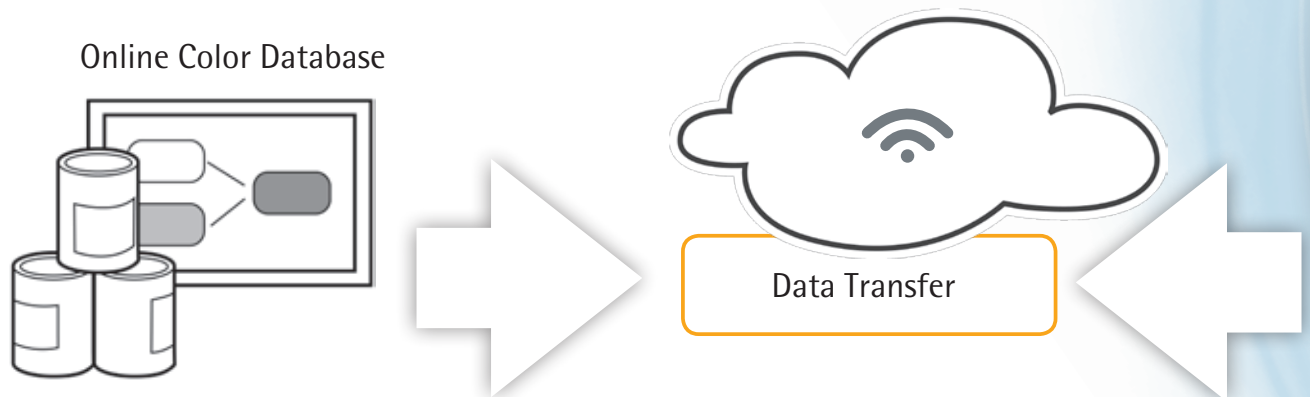
Bodyshop
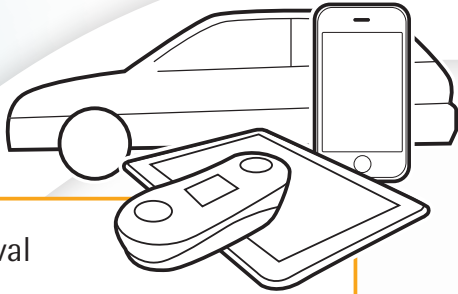
Color retrieval
– Spectro
– Web-based color software

Job coordination
– Mobile devices

Paint mixing process
– Integrated mixing module
– Independent from color software

Installation of multiple scales in a network

Automatic stock control
– Utilize job results
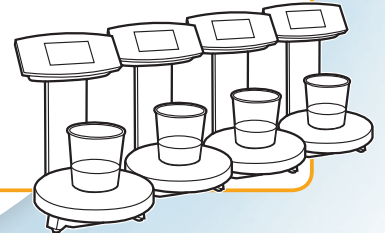
The PMA.Vision features – Your benefits!

☐ The integrated mixing modul allows the PMA.Vision to independently process mixing jobs from an internal job list:

– No dedicated PC | Terminal in the mixing area needed

– Smaller investment

– Lower installation costs

– Mixing process does not need to be supported by color software

☐ The job results from the PMA.Vision can be used to:

– Evaluate the accuracy of the recipes in the database

– Monitor the paint usage at the point of use to automate your paint stock control.

– Check correct recipe processing

Clean Work Environment

☐ Plane, solvent-resistant glass display and stainless steel weighing pan for easy cleaning

☐ Spillage-protected interface at the back of the head

☐ In-use covers for display, column and weighing pan to prevent stains

The new connection concept of PMA.Vision enhances the control over the paint cycle and significantly reduces the total cost of ownership.
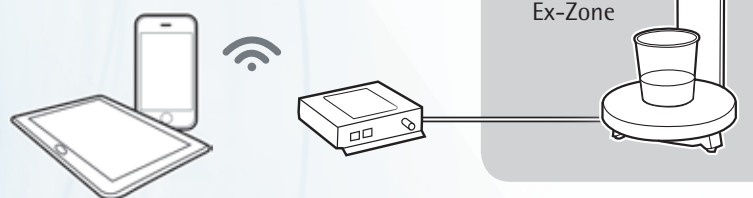
Simple Installation

One-cable installation

Within the hazardous area, PMA.Vision requires only one cable. This simplifies the installation and reduces costs.

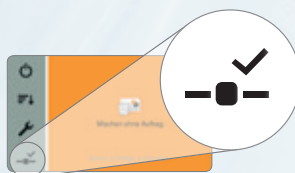**Connectivity**

One or multiple PMA.Vision units can be integrated by IP address into your IT infrastructure to increase efficiency.

Ex-Zone

Connection Status

You can easily check the current connection status shown by the bottom icon. For example, a checkmark indicates that the connection is active.
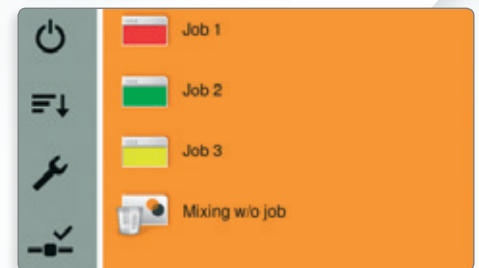
The Mix Process – The orange line

The PMA.Vision with integrated mixing module and internal job queue makes dedicated PCs within or outside the mixing room needless. The PMA.Vision processes the complete mixing task independently from any PC or terminal.

Choose your job from a list of up to 50 optional variable|fixed jobs or 50 fixed formulations.

An intuitive user interface like the PMA.Vision mixing guide keeps your mixing processes easy and efficient.

Select a job

	Job 1
	Job 2
	Job 3
	Mixing w/o job

Job list with up to 50 jobs or 50 fixed formulations

Start

End

Get the mixing result

Job 2		
Color code · Color name · 0.55 l		
WB 361	Ruby red	130.6 g ✓
WB 386	Purple	16.0 g ✓
WB 367	Oxid red	10.6 g ✓
WB 276	White	3.6 g ▲
WB 120	Shadow blue	2.5 g ✓
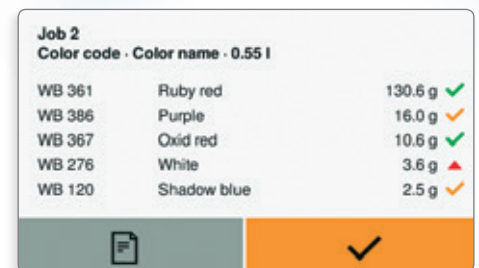
The Job is completed – press the orange key

Start the mix

COLOR	JobID
	Job ID
Color code	**Color code**
Name	**Color name**
Variant	**Variant name**
Manufacturer	**Manufacturer**
Amount	0.55 l
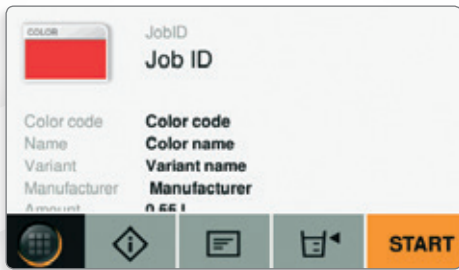
START

press the orange START key

Put Can on Scale

Put Can on Scale
sufficient for the following amount of paint:

0.55 l
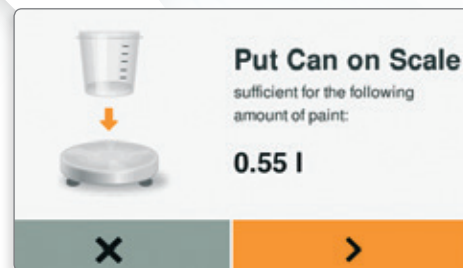
After auto tare move forward –
press the orange key

Fill in first component

WB 361   Ruby red

Net1

–130.6 g

Fill in the components down
to zero

Reach the tolerance range

WB 361   Ruby red

Net1

0.0 g
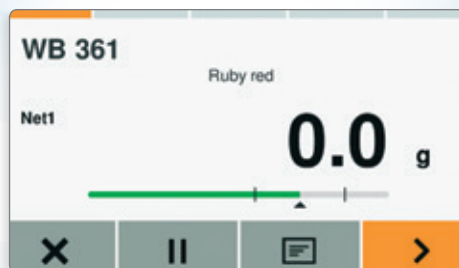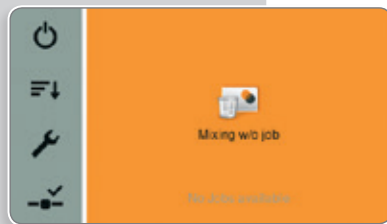
Next component –
press the orange key

Internal Applications

Other built-in applications include overpour recalculation and factor weighing,
(for different can sizes) Unit toggling, Polyrange functionality, Display Lock, as well as
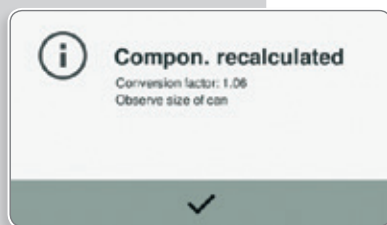the ability to mix without a job (stand-alone mode).

Mixing w/o job

In addition to the job list, you have the option to work in
stand-alone mode.
This feature can be blocked in the setup using the Lock function
to prevent the scale from unauthorized use.

Calculation factor

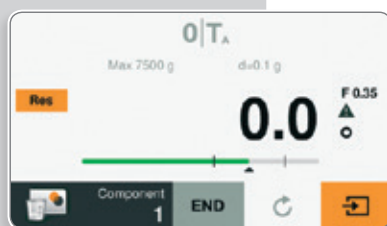Factor calculation to adapt a recipe to any desired can size

Recalculation

Recalculation functionality in case of over-pouring a component.

Dual-Range

The resolution of 0.1 g can be manually switched to 0.05 g for
a range of up to 999.95 g. The fine range can be used up to the
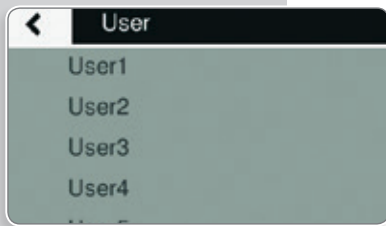maximum capacity through taring.

Bargraph

Bargraph as dosing assistance or capacity indicator

Extended Features

The extended features like the lock function, password settings or theft protection will protect your property. Individual settings and selection of calibration value will make your daily work activity even more comfortable.

User associated job management

Clearly defined User ID's can be assigned to each authorized mixer.

Lock function for unauthorized usage

To avoid unauthorized usage just disable the "mixing w/o job" application in the scale setup
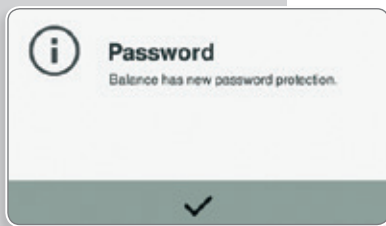
Setup protected by Password

Protect your individual menu setting with your own user-defined password.
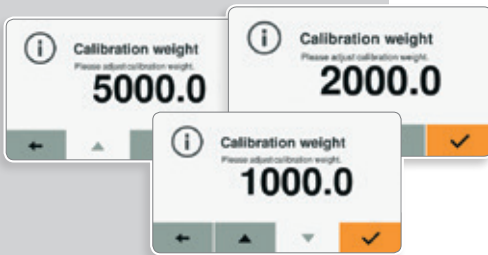
External calibration

The scale can be calibrated externally with 1 kg, 2 kg or 5 kg.
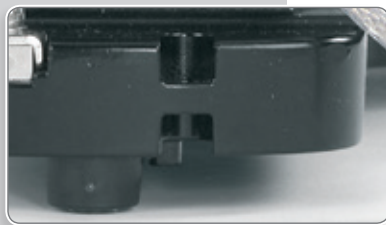
Theft protection

Fixation point on the back
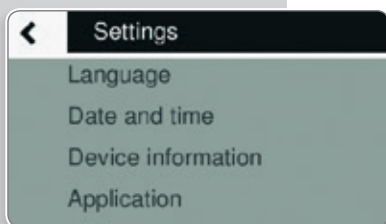
Intuitive Setup

Multiple language selections allow for an easy and intuitive setting of the menu.

Functional Accessories

Keep your PMA.Vision working like new for the longest time: with covers to protect your scale from paint stains and weights to recalibrate it. Different cable lengths enable flexible installation to accommodate specific conditions for equipment setup.

In-Use covers

In-use cover for display (set of 10)	YDC03PMA10
In-use cover for column (set of 10)	YDC03PMA-CO10
In-use cover for weighing pan (set of 10)	YDC03PMA-WP10

Cables

|	
Link cable to Ex Link Converter, length 10 m (32.8 ft.)	YCC01-0052M10
Link cable to Ex Link Converter, length 20 m (65.6 ft.)	YCC01-0052M20
Link cable to Ex Link Converter, length 30 m (98.4 ft.)	YCC01-0052M30
Grounding cable, 2 m (6.5 ft.)	YCC01-X046M2
USB cable, length 3 m (9.8 ft.)	YCC01-0040M3

Power supply

USB power plug 5 VDC │ 1500 mA	YPS07-USB
AC-adapter set (US, EU, UK)	YAK01
AC- adapter set (AU, ZA, BR)	YAK02
AC- adapter set (IN, KR, CN)	YAK03

Calibration weights

External calibration weight 1 kg (class F2)	YCW614-AC-00
External calibration weight 1 kg (class F2) with DAKKS certificate	YCW614-AC-02
External calibration weight 2 kg (class F2)	YCW624-AC-00
External calibration weight 2 kg (class F2) with DAKKS certificate	YCW624-AC-02
External calibration weight 5 kg (class F2)	YCW654-AC-00
External calibration weight 5 kg (class F2) with DAKKS certificate	YCW654-AC-02

Technical Data

Metrological data

Capacity	7500 g
Readability	0.1 g
Tare range (subtractive)	-7500 g
Allowable operating temperature	5 ... 40 °C (41 ... 104 °F)
External calibration weight	1, 2, 5 kg (class F2 or better)

Dimensions│Weight

Weighing pan (∅)	233 mm
Housing (W×D×H)	233 × 321 × 341 mm
Net weight	approx. 2.4 kg

Power supply

Power supply	Power plug YPS07-USB
Input voltage │ power consumption	5 VDC │ 5.1 W typ.
Ex-link converter	Energy limiting unit included

Approval Ex zone 1 │ Class I, Div. 1

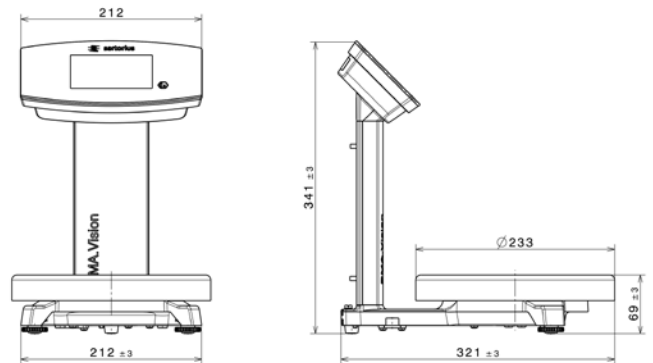|	
IECEx	Ex ib IIB T4 Gb
ATEX	II 2G Ex ib IIB T4 Gb
FM (USA)	IS CL I, DIV 1, GP C,D T4; CL I, Zone 1, AEx ib IIB T4
FM (CAN)	Ex ia CL I, DIV 1, GP C,D T4; Zone 1, Ex ib IIB T4

Approval Ex zone 2

IECEx	Ex ic IIB T4 Gc
ATEX	II 3G Ex ic IIB T4 Gc

IP protection

Dust and water protection rating in accordance to EN 60529 │ IEC 60529:	IP40

Communication

Data output	Ethernet 10 │ 100 Mbit, Full or Half duplex
Format	XML- or JSON
Internal application	Integrated mixing module with internal job queue (50 jobs or 50 fixed formulations)
	Recalculation (correction of over-pours)
	Calculation by factor (0.25 – 5.0)
	Dualrange 0.05 g (up to 999.95 g)
	Mixing w/o job recipe processing (absolute, additive)
User interface	Process flow developed together with painters
	High resolution graphic display
	Bargraph as dosing assistance or capacity indicator
	Text menu in 16 languages

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