



Editorial

While color producers are introducing new software and UMTS modules for their machine parks, dispenser software has not changed much over recent years. Yet it has so much potential when it comes to digitally assisted functionalities, efficient data mining and intelligent network capabilities.

Collomix has designed and developed a modern, interactive dispenser software bundle for TINTA for a wide array of intelligent software-based assistance and analysis functions and Industry 4.0 capabilities for efficient human-machine interaction, e.g. predictive maintenance, information transparency, remote control, digital assistance and data management. Color recipe selected at POS, parallel recipe selection, synergetic control of multiple dispensers and easy integration into existing tinting software are just a few examples of the features of our new TINTA software.

Learn how to optimise dispenser processes and increase process security with the innovative TINTA software and find out about additional new software packages and features in this TINTA Expert Newsletter:

In TINTA Expert note #4 you will find answers to:

- **1.** What advantages does the TINTA software bundle provide compared to other dispenser software?
- 2. What new benefits does colloro.TINT bring to dispensing?
- **3.** How can **colloro.DBASE** control and optimise a complete TINTA network?
- **4.** How can **colloro.TRACK** help you with data tracking, data mining and update implementation?
- **5.** How does **colloro.SELECT** facilitate set-up and implementation of tinting jobs?





Figure 1.4:
use colloro.TINT with
a touch display

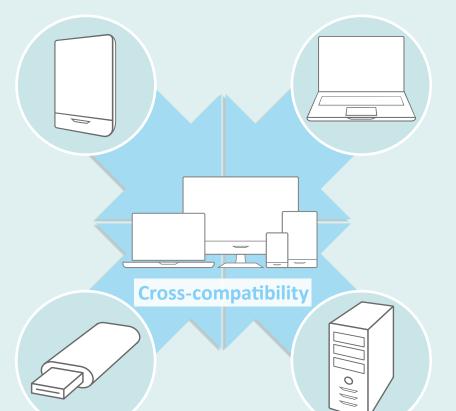




Figure 1.2:
use colloro.TINT with
keyboard and mouse





Figure 1.3: install colloro.TINT on a conventional tower PC

»What advantages does the TINTA software bundle provide compared to other dispenser software?« TINTA will integrate seamlessly into any existing software environment. However, our new TINTA software platform features many additional benefits that will help you optimise your dispenser output in completely new ways.

Our TINTA Software Bundle

consists of 4 innovative modules. All modules can be individually combined in an integrated all-in-one solution to meet your individual application requirements.

- **colloro.TINT** Our dispenser software for ultimate operation flexibility.
- colloro.SELECT The App for tinting jobs and recipe selection
- colloro.DBASE An innovative database solution for hosting all your dispenser and recipe data with maximum efficiency.
- colloro.TRACK Our software for tracking all your user data and for making life easier for your service teams.

Today's software is easy to install by copying the application folder from a USB flash drive or internet download to the desired destination. **colloro.TINT** will eventually run independently on the TINTA embedded system. Transferring your customer-specific recipe database is very easy: Collomix uses an extra fast SQLITE table format in just one single file to give you access to any available recipe in milliseconds. The recipe data bank format and our proprietary software enables minimal hardware and resource utilisation.

Therefore, a large and expensive computer per dispenser is no longer necessary (but still possible).

Our TINTA innovation for you:

TINTA software modules allow you to operate your dispenser via your existing hardware:

- Any conventional Windows PC with computer tower, screen and keypad (figure 1.2)
- All-in-one PCs Touch display with integrated computer. This is a simple, efficient solution with very little cabling (figure 1.4)
- Mini-PC on a Stick The mini PC is just a little bigger than a conventional USB flash drive. It is conveniently installed inside the housing together with the TINTA electronics (figure 1.1)
- Any Windows tablet or iPad This gives you ultimate flexibility to remotely operate your dispenser from any mobile device

For all these options Collomix offers a wide range of holders and adapters

Your advantage:

Thanks to the TINTA software you can operate your TINTA dispenser flexibly with any operating system and all state-of-the-art hardware devices.

What advantages does the TINTA software bundle provide compared to other dispenser software?



Figure 1.5: colloro.TINT's tinting module



Figure 1.7: **colloro.TINT** for diagnostics & analysis

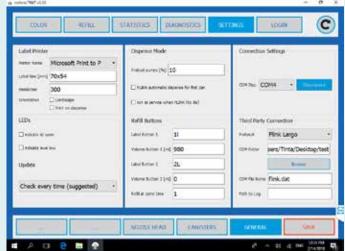


Figure 1.6: **colloro.TINT** supports you with system start-up and service & maintenance

»What new benefits does colloro.TINT bring to dispensing?«

colloro.TINT is an innovative software assistant to help you with the production and management of your daily tinting jobs. The software supports you with dosing jobs, refilling canisters, maintenance and administration of TINTA. Today, colloro.TINT can run on an external computer or Mini-PC. Very soon, it will also run on the TINTA embedded system with its own LAN/WLAN interface to communicate with any Collomix or third-party tinting software installed on an external computer.

Our TINTA innovation for you:

colloro.TINT assists you with

Dosing with the TINTA:

- Formula processing via intuitive formula search (in combination with colloro.SELECT) in your recipe database within milliseconds (figure 1.5)
- Tinting job queuing from remote and local sources (figure 1.5)
- Barcode printing and print handling

Filling colorants:

- Level monitoring with automated alert functions
- Sensor-controlled and software-assisted refill
- Canister lid monitoring for continuous airtight operation

Taking care of the machine:

- Maintenance alert and message handling
- Automated user alerts based on customer-specific criteria such as dew point control, nozzle and tube control (figure 1.7)
- Circle function and additional service features, e.g. configuration of a standby spare canister for canister exchanges or parallel operation
- Purge handling in extraordinary temperature/humidity conditions

Administration of the TINTA:

- Settings
- User profiles/logging and user rights administration
- Initialisation and system start-up (figure 1.6)
- Tracking

User rights can be assigned on different access levels, e.g. by shop, brand, region and company.

Your advantage:

Collomix's innovative **colloro.TINT** dispenser software enables totally new levels of dispenser operation and service convenience.

TINTA will integrate seamlessly into any existing software environment, if desired.

colloro.TINT supports common dispenser protocols e.g. FLINK, UDEP, DATACOLOR and others as well as the UPnP network protocol for seamless interaction with existing tinting software (*figure 1.6*).





Figure 1.8: **colloro.DBASE** for TINTA operation worldwide is available via a mouse-click

Our TINTA innovation for you:

colloro.DBASE will be a new service provided by Collomix for hosting a continually updated color database, complete with all dispenser data.

We are developing **colloro.DBASE** to collect, host and maintain up-to-date color and dispenser databases. Local recipe databases on each TINTA are connected via the internet and the cloud-Server. **colloro.DBASE** enables fully automatic updates of recipe database from the central cloud server at regular intervals. The data volume is reduced to a minimum since only modified data is transmitted.

colloro.DBASE is a web server and database for the intelligent management of your complete dispenser network. A web server can supply thousands of TINTAs simultaneously and update your complete dispenser fleet in just a minute! colloro.DBASE receives all monitoring data from the individual TINTA systems and transfers this into a MySQL database, complete with information on the sending system and its Geo-IP.

If you prefer to use your own server to host your database, we are happy to implement and service **colloro.DBASE** at your premises. Updates can be applied automatically or after approval by the dispenser administrator.

Your advantage

colloro.DBASE is a database solution for hosting all your dispenser and recipe data with maximum efficiency. **colloro.DBASE** will keep your database up-to-date at all times giving you access to recipes and data in milliseconds. This enables major time savings compared to conventional software.

»How can colloro.DBASE control and optimise a complete TINTA network?«

How can colloro.DBASE control and optimise a complete TINTA network?



Figure 1.9: access colloro.TRACK from any computer with just a mouse click

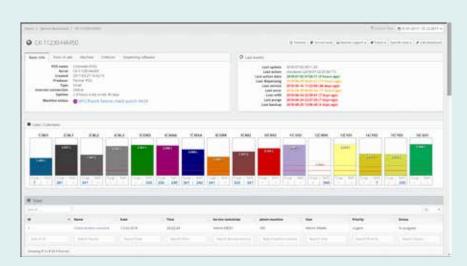


Figure 1.12: software example (reference: TMC)



Figure 1.11: software example (reference: TMC)



Figure 1.10: colloro.TRACK supports your service team in real time

»How can colloro.TRACK help you with data tracking, data mining and update implementation?« We are developing **colloro.TRACK** to help you use the data mined from your TINTA dispenser for even more process efficiency. With support from **colloro.TINT**, it enables you to carry out remote maintenance, tracking and analysis of all operating data within your TINTA dispenser network.

Our TINTA innovation for you:

colloro.TRACK tracks and aggregates all operation steps of any TINTA dispenser in a database. Data collection and transfer with **colloro.TRACK** enables real-time monitoring and real-time data mining.

colloro.TRACK was specifically designed to deliver fast, up-to-date information and data for your marketing and sales monitoring and analysis tasks. Download detailed data from the server, for example:

- all usage data
- error & warning data
- maintenance data

The database can be used for any manual diagnostics & analysis, for example:

- quick diagnostics (pumps, valves, lids, nozzle temperature, software version)
- automatic alerts for critical conditions, low canister levels, invalid formulas
- CAN and serial bus monitoring with error correction & data logging
- real-time temperature monitoring and fully automated coolNOZ control

colloro.TRACK can also interface with third-party management and analytical software and dashboards like TMC (TINTING MANAGEMENT CENTER) for real-time dispenser monitoring and management (*figure 1.11 and 1.12*).

colloro.TRACK also allows you to assign user rights on different access levels, e.g. by shop, brand, region or company. Software updates can be applied automatically or after approval by the dispenser administrator.

Your advantage:

colloro.TRACK delivers fast, real-time data for all your analysis and marketing tasks. It is an innovative solution for conveniently managing and monitoring your complete dispenser fleet from any mobile or PC system: use customer service monitoring to remotely control your entire dispenser fleet at any time and from anywhere – either aggregated or in detail (figures 1.9 and 1.10).



With **colloro.SELECT** you can select any color from your database, create any tinting job from an independent local or remote device and send it to any TINTA for actual dispensing.

Our TINTA innovation for you:

Although currently integrated into our **colloro.TINT** software as a tinting app, **colloro.SELECT** is being developed as a separate program that can be operated independently of the dispenser's operating system. This will enable ultra-fast selection of color recipes and automated transfer to a specific TINTA dispenser.

colloro.SELECT presents a selection of new dispenser features:

- quickSEARCH: Find your recipe from millions of entries in less than 1 second.
- autoUPDATE: Will automatically update your local database when a new update is available (in combination with colloro.DBASE and continuous online access).
- scanCODE: Pick your data without any typing (using any bar code scanner).
- allPLATFORMS: colloro.SELECT will work on all WIN/OSX/LINUX/iOS
- flexTRANFER: Transfer your color job directly to your selected dispenser to colloro.TINT (alternatively via UDCP, FLINK, etc.)

Your advantage:

colloro.SELECT will enable remote selection of a color recipe from any mobile device or PC or directly at the POS via tablet. The dispensing job will be transferred directly to the dispenser and will be either processed immediately or entered in a job queue.



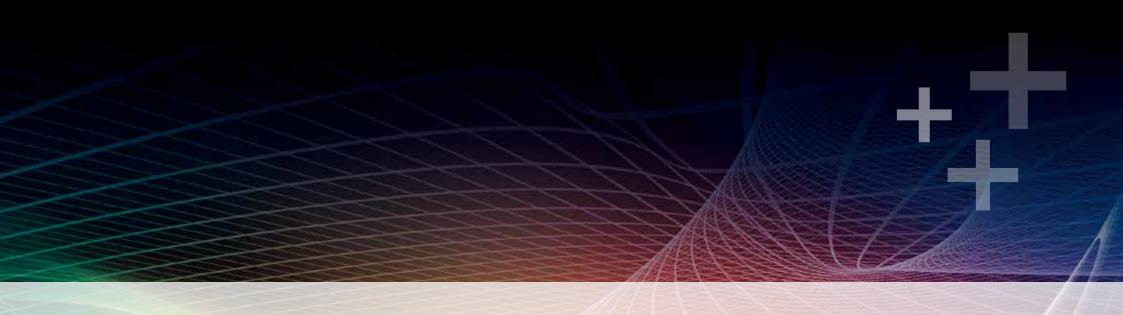
The major benefit for our customers: Why is Collomix the perfect partner in all matters relating to tinting solutions?

Collomix has been at the forefront of mixing for more than 40 years. Through its long-standing practical experience and close involvement with an extremely wide range of tasks and requirements, Collomix has built up profound knowledge, which its customers benefit from too. Our mission as an innovation leader is to create added value for our customers in the industrial environment by coming up with new ideas. How do we achieve this? By developing proven functions, optimising profitability aspects and gaining a technological edge through interdisciplinary experience transfer – which is a real plus for our customers.

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As a system provider for tinting solutions, we give you advice that spans entire product fields and is tailored to your own, very special situation. During this process, you as a customer benefit from our intelligent, compact corporate structure. Short distances mean that we can respond to your requirements in a flexible and agile way. In so doing, Collomix uses highly qualified specialists and long-term employees. After all, they are the key to our outstanding products and, therefore, to our joint success as partners.





Coming next: TINTA Xpert note #05

»A Dispenser That Adjusts To Your Requirements«

- 1. How can you adapt the capacity and tinting speed of a TINTA dispenser?
- 2. What new ergonomic and handling benefits does TINTA bring for the operator?
- 3. How will TINTA support your technicians?
- 4. How does TINTA ensure a long service life for your dosing system and allow pumping without calibration?
- 5. How does TINTA support easy customisation and optimum user flexibility?

Other editions:

TINTA Xpert note #1:

»TINTA – A Dispenser Without Stirring«

TINTA Xpert note #2:

»Piston Pump & coolNOZ – A Dispenser With Sample Pot Accuracy«

TINTA Xpert note #3:

»coolNOZ - A Dispenser Without Purging«



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Please contact us for a TINTA test and for further information.

Our sales & technical service team is happy to answer your questions.

More information on http://collomix-tinta.de/en