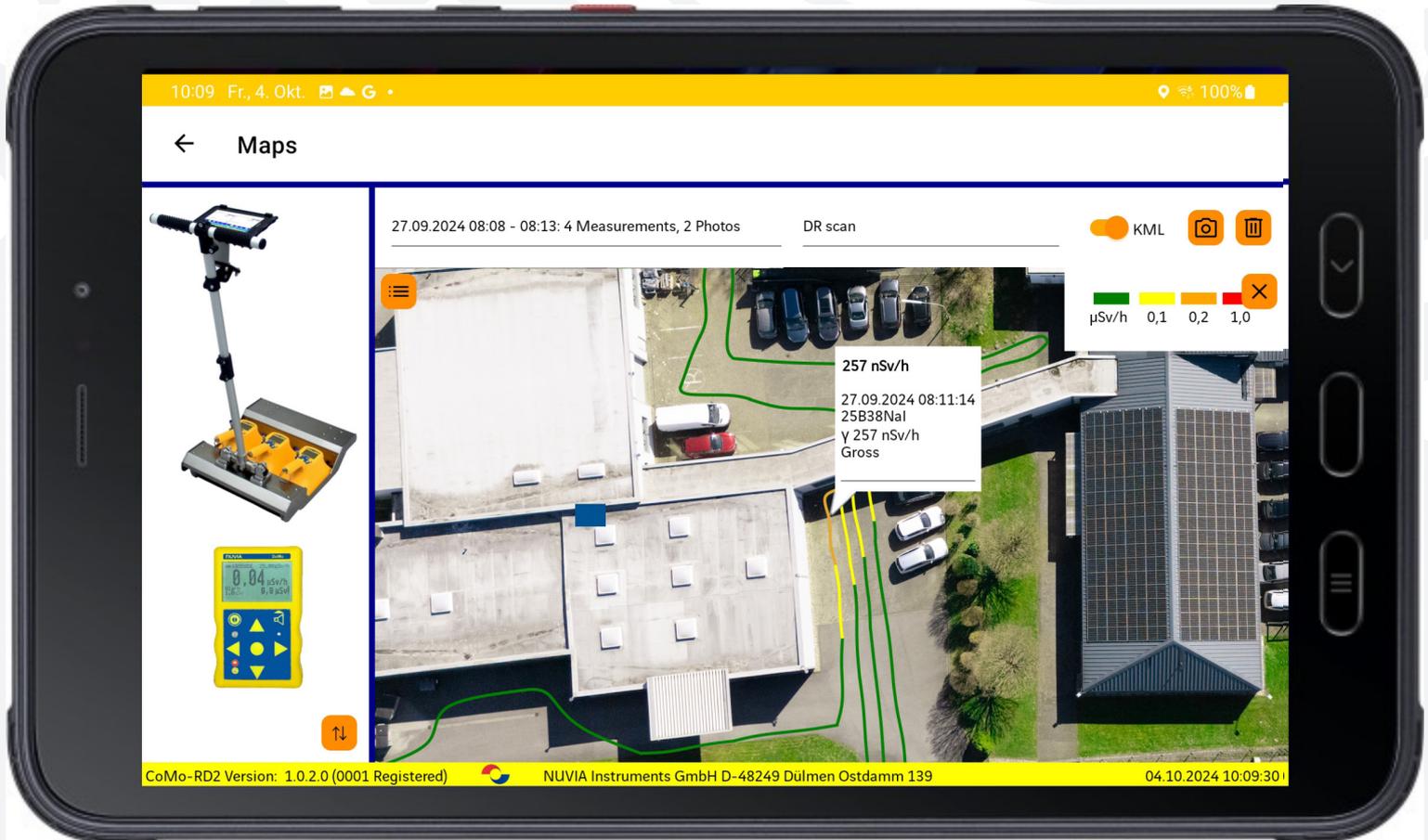SPECIFICATION SHEET

CoMo-RD2 APP
Data acquisition software for measurements and geolocation

The CoMo-RD2 tablet app was developed to enable the structured acquisition, documentation, and visualization of measurement data and measurement objects. The app allows measured values to be seamlessly linked with geodata, photos, and comments, providing a comprehensive overview of all recorded information.

The CoMo-RD2 software (RD = Remote Display) supports the wireless connection, monitoring, and control of up to three CoMo or DolMo devices simultaneously.

Advantages

· Remote display of measurement values and alarm monitoring

· Simultaneous control of all connected devices

· Recording and logging of measurement data

· Linking measurements with geodata, object photos, and comments

· Interactive map view with export functionality

· User-friendly, multilingual user interface

Key Features

1-3 CoMo/DolMo
➥ *Devices supported simultaneously*

GPS
➥ *Based recording of geodata*

>10 different
➥ *External probes supported*

Product description

The CoMo-RD2 software (RD = Remote Display) displays the measured value as well as the selected nuclide or measurement type for up to three CoMo or DolMo devices. Additionally, the application allows users to start a measurement, save the measured value e.g. on the CoMo device, acknowledge an alarm, enable or disable individual acoustic pulses, and start a new background measurement.
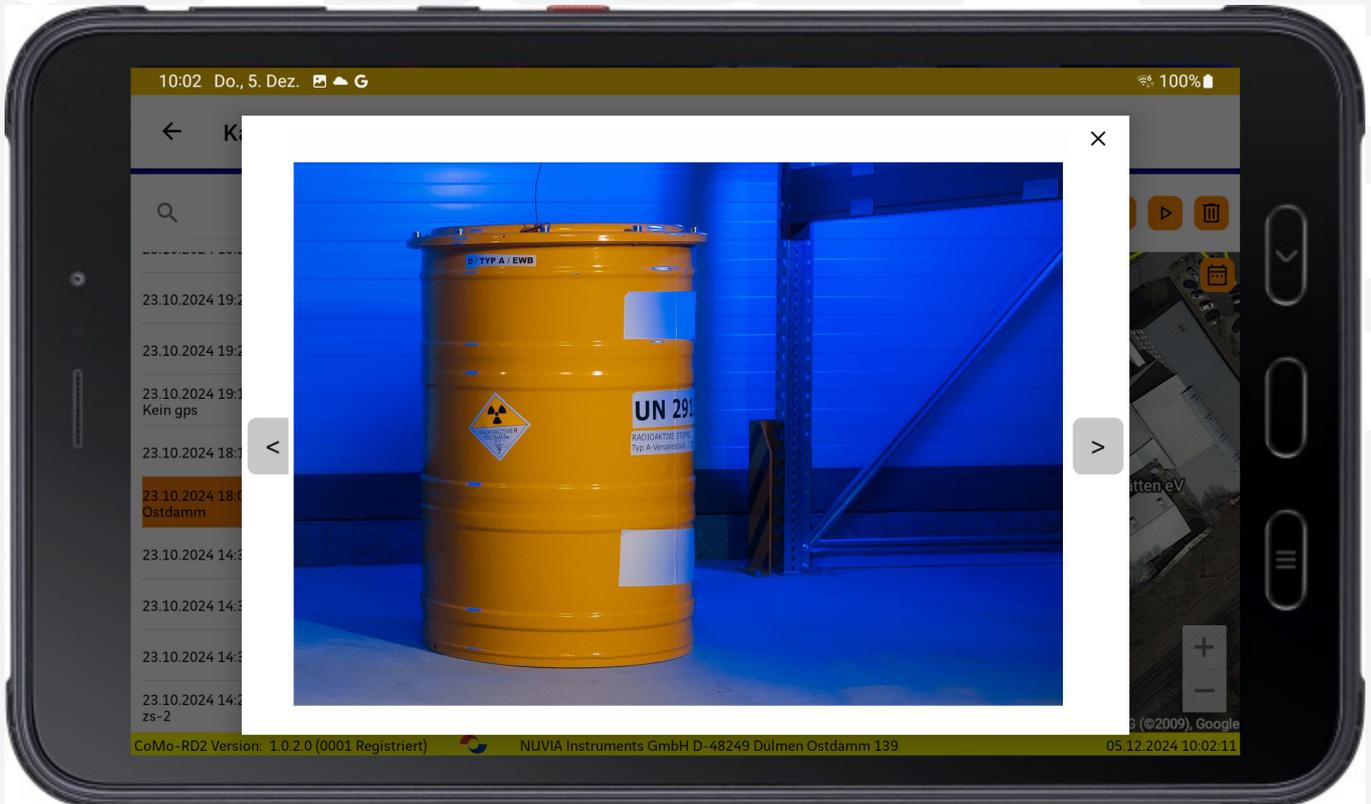
These functions can be applied to a single device or to all connected devices simultaneously. A typical use case for multiple devices is a soil measurement setup with 1–3 CoMos or the remote monitoring of contamination measurements.

The CoMo enables α- and β/γ-contamination measurements. Furthermore, both the CoMo and DolMo can be connected to external dose rate or contamination detection probes.

The integration of the LARS ground measurement system ("Large Area Radiation Scanner") is currently in development.
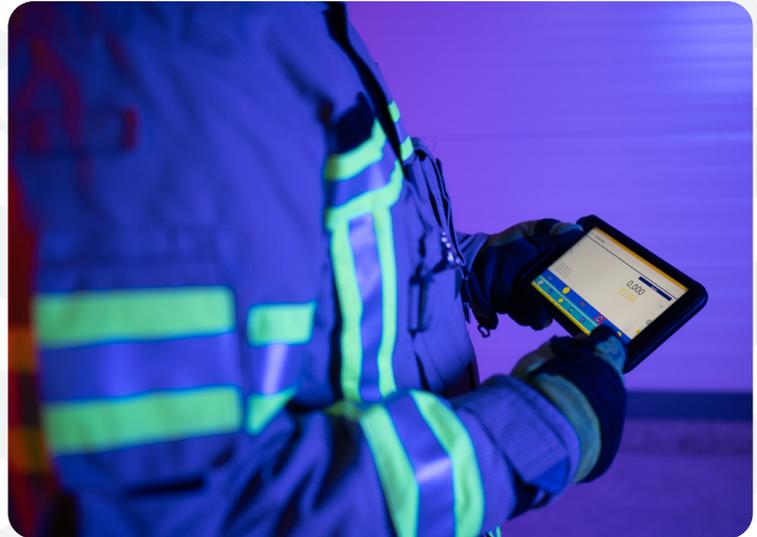
It is possible to store measurement data together with geolocation information in a single recording. This includes both the current display values in search mode as well as the results of standard measurements and background measurements. Stored measurement data is clearly marked and can be supplemented with individual comments as needed. Additionally, photos can be attached to specific measurement points for documentation purposes.

Both ongoing and previously saved recordings can be visualized in an interactive map view. For further processing, data can be exported via the USB interface. Recordings can be exported in either KML (Keyhole Markup Language) or CSV (Comma-Separated Values) format and integrated into external software applications.

Application scenarios

· Remote display of measurement values in hard-to-access locations

· Visualization of measurement values for training purposes

· Survey drives for area mapping with continuous recording of measurements

· Field inspections in search mode with measurement and documentation of hotspots

· Remote monitoring of contamination measurements in personnel or material screening

· Documentation of measurement campaigns (linking measurement data, geodata, photos, and comments)

Technical Specifications

The app is delivered with a preconfigured tablet with current performance specifications.

Operating system	Android version 12 or higher
App storage requirement	approx. 100 MB
Storage requirement for recordings	approx. 4-8 MB/h (for 1-3 CoMo) plus photos

Note: Each CoMo or DolMo device requires an external module for data transmission. Please check in advance the compatibility of any existing measurement devices. The operation of the app is limited to tablet devices previously approved by the manufacture.

CoMo-170 with external data module