



## SOFTWARE RELEASE NOTES

# **Device Type Manager (DTM) v1.4.0.1 for R2000 2D Laser Scanner Device Family**

## Software Details

Software Name: R2000 Device Type Manager (DTM)

Release Version: v1.4.0.1

Release Date: December 2022

## Release Notes for DTM Version 1.4.0.1

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release adds translations for German and Japanese.

### Supported Products

- OMD10M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OMD30M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OMD60M-R2000 UHD devices (HW 1.5x / HW 1.6x / HW 1.7x)
- OMD12M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OMD30M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OMD25M-R2000 SD device (HW 1.6x / HW 1.7x)
- OBD10M-R2000 Detection devices (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OBD30M-R2000 Detection devices (HW 1.0x / HW 1.5x / HW 1.6x / HW 1.7x)
- OBD60M-R2000 Detection devices (HW 1.6x / HW 1.7x)

### System Requirements

- Windows 10 or Windows 11
- PACTware 4.0 or newer (PACTware 6.x recommended)  
Other FDT frames have not been tested.

### New Features

- Added support for language German (configured via PACTware settings)
- Added support for language Japanese (configured via PACTware settings)

### Improvements

- Various minor improvements

### Known Issues

- Devices OMDxxx-R2000 with older firmware (prior to v1.20) might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.3.2.1

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release adds support for OMD25M-R2000 SD devices.

### Supported Products

- OMD10M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD30M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD60M-R2000 UHD devices (HW 1.5x / HW 1.6x)
- OMD12M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD30M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD25M-R2000 SD device (HW 1.6x)
- OBD10M-R2000 Detection devices (HW 1.0x / HW 1.5x / HW 1.6x)
- OBD30M-R2000 Detection devices (HW 1.0x / HW 1.5x / HW 1.6x)

### System Requirements

- Windows 7 or Windows 10
- PACTware 4.0 or newer  
Other FDT frames have not been tested.

### New Features

- Added support for OMD25M-R2000 SD devices

### Improvements

- Live View: Coordinate system is rotated with sensor per default

### Known Issues

- Devices OMDxxx-R2000 with older firmware (prior to v1.20) might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.3.1.4

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release adds support for the Lens Contamination Monitor (LCM).

### Supported Products

- OMD10M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD30M-R2000 UHD devices (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD60M-R2000 UHD devices (HW 1.5x / HW 1.6x)
- OMD12M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x)
- OMD30M-R2000 HD device (HW 1.0x / HW 1.5x / HW 1.6x)
- OBD10M-R2000 Detection devices (HW 1.0x)
- OBD30M-R2000 Detection devices (HW 1.0x)

### System Requirements

- Windows 7 or Windows 10
- PACTware 4.0 or newer  
Other FDT frames have not been tested.

### New Features

- Added configuration of Lens Contamination Monitor (LCM)

### Bug Fixes

- Fixed freeze issue in Live View when using PACTware 5.x

### Known Issues

- Devices OMDxxx-R2000 with older firmware (prior to v1.20) might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.3.0.4

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release adds support for features of new devices (hardware v1.50).

### Supported Products

- OMD10M-R2000 UHD devices (HW 1.0x and HW 1.5x)
- OMD30M-R2000 UHD devices (HW 1.0x and HW 1.5x)
- OMD30M-R2000 HD device (HW 1.0x and HW 1.5x)
- OBD10M-R2000 Detection devices (HW 1.0x)
- OBD30M-R2000 Detection devices (HW 1.0x)

### System Requirements

- Windows 7 or Windows 10  
Support for Windows XP is discontinued - the DTM might still work with Windows XP though.
- PACTware 4.0 or newer  
Support for PACTware 3.x is discontinued - the DTM is not detected by PACTware 3.x any more. It is recommended to use PACTware 4.1 SP4. Other FDT frames have not been tested.

### Improvements

- OMD devices: Added support for scan data filtering (requires FW 1.50).
- OMD devices: Added support for scan frequencies up to 100 Hz (requires HW 1.50)
- OMD devices: Added scan resolutions 3150 and 2520 samples per scan (requires FW 1.50).
- Added support for FDT Topology Scan
- Improved rendering with scaled fonts (high-DPI displays)

### Known Issues

- Devices OMDxxx-R2000 with older firmware (prior to v1.20) might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.2.2.1

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release is a minor update.

### Supported Products

- OMD10M-R2000 UHD devices
- OMD30M-R2000 UHD devices
- OMD30M-R2000 HD device
- OBD10M-R2000 Detection devices
- OBD30M-R2000 Detection devices

### System Requirements

- Windows 7 or newer
- PACTware 4.0 or newer

### Improvements

- OMD devices: Added additional scan resolutions (1680, 2100 and 2800 samples per scan).  
Note: The additional resolutions are only available for devices with firmware v1.21 or newer.
- OBD devices: Field outline points are now verified to not exceed the limits of [+100m;-100m] for both X and Y coordinates.
- Improved error handling on connection timeouts.

### Known Issues

- Devices OMDxxx-R2000 with older firmware (prior to v1.20) might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.2.1.0

### Description

This DTM provides a graphical user interface for R2000 2D laser scanner devices. This release adds support for R2000 HD devices (OMDxxx-R2000-HD).

### Supported Products

- OMD10M-R2000 UHD devices
- OMD30M-R2000 UHD devices
- OMD30M-R2000 HD device
- OBD10M-R2000 devices
- OBD30M-R2000 devices

### System Requirements

- Windows 7 or newer
- PACTware 4.0 or newer

### New Features

- Added support for new OMD30M-R2000-HD device family
- Added support for HMI customization features in device firmware v1.20 (static logo, static text)
- Added optional scan data averaging in Live View  
(Note: Averaging is performed by the DTM - not by the device)
- Added support for PACTware print functionality (printing a parameter listing)

### Improvements

- OBD devices: Added option to synchronize display settings between Outline Editor and Live View
- OBD devices: Live View now shows detection fields per current device configuration instead of current fields as modified in Outline Editor
- OBD devices: Live View I/Q status now additionally visualizes I/Q mode of each channel
- OBD devices: I/Q Setup - Logical Function tree now shows user tags for input signals
- Live View: Improved scaling of echo amplitude visualization (color coding)
- Various minor improvements

### Bug Fixes

- IP Communication DTM: Improved automatic device detection on systems with multiple network adapters
- Fixed various minor issues

### Known Issues

- Devices OMDxxx-R2000 with Firmware v1.0x might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".

## Release Notes for DTM Version 1.1.1.4

### Description

This DTM provides a graphical user interface for R2000 2D Laser Scanner devices. This release adds support for R2000 detection devices (OBDxxx-R2000).

### Supported Products

- OMD10M-R2000 devices
- OBD10M-R2000 devices

### System Requirements

- Windows 7 or newer
- PACTware 4.0 or newer

### New Features

- Support for new OBDxxx-R2000 device family

### Improvements

- Sensor Information: added field "user notes"
- Scan Data View: improved functionality
- Added option for color-coded visualization of echo amplitude of scan points
- Added option for color-coded visualization of high echo scan points (reflectors)
- Added option to connect near-by scan points (suppressing long lines)
- Various minor visual and usability updates
- Scan Data View: added keyboard shortcuts:
  - <space> starts / stops live view
  - <cursor keys> scroll scan data view
  - </> and <\*> rotate scan data view
  - <+> and <-> change zoom level
- Service: added button to reboot device
- Service: added Locator Indication functionality
- Various minor improvements

### Bug Fixes

- Scan Data View: scan points are now drawn at their exact position (fixing rounding errors at very high zoom levels)

### Known Issues

- Devices OMDxxx-R2000 with Firmware v1.00 might not store some UTF-8 special characters correctly for fields "user notes" and "user tag".



## Release Notes for DTM Version 1.0.0.0

### Description

This DTM provides a graphical user interface for R2000 2D Laser Scanner devices. This is the initial release.

### Supported Products

- OMD10M-R2000 devices

### System Requirements

- Windows XP or newer
- PACTware 3.x or newer

# Your automation, our passion.

## Process interfaces

- Intrinsically safe barriers
- Signal conditioners
- Fieldbus infrastructure
- Remote I/O systems
- HART interface solutions
- Wireless solutions
- Level measurement
- Purge and pressurization systems
- Industrial monitors and HMI solutions
- Explosion protection equipment
- Solutions with process interfaces

## Industrial sensors

- Proximity sensors
- Photoelectric sensors
- Industrial vision
- Ultrasonic sensors
- Rotary encoders
- Positioning systems
- Inclination and acceleration sensors
- AS-Interface
- Identification systems
- Logic control units