

## OLx-8x release history

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### Updating the existing device software:

The latest version of the software can be downloaded from the internet

### To find the latest software version:

1. Visit the Viavi web site at <http://updatemyunit.net>
2. Select "SmartClass Fiber Products"
3. Open the download area and download the latest software
4. Start the downloaded exe-file and save the unzipped 5 individual files to the root of an USB flash drive

### To download the latest version of software:

- Make sure the instrument is fully charged or the PS4 Universal AC/DC Power Supply is connected.
  - Make sure the instrument is switched off and not in hibernate mode.
1. Press and hold down the **'MENU'** key.
  2. Press the **'ON'** key to switch the instrument on.
    - The software update screen appears.
  3. Release the **'MENU'** key.
  4. Plug the USB flash drive into one of the instruments USB ports.
  5. To start the software update procedure, press the center key within the arrow keys.
    - Once the update procedure is complete, the instrument will reboot and finalize the update.
  6. Remove the USB Flash drive.

**Remark:** When updating a device from a software version prior to V01.12, the USB flash drive is limited to a **maximum** capacity of **2GB**

- The **USB stick** must be formatted in **FAT32**, no 2GB limit.

**Caution! Ethernet (LAN) port number has changed from 5800 to 8000 since software version V02.00.00.**

**Caution! For downwards compatible since software version V02.02.00. Ethernet port numbers 5800 and 8000 will work**

**Caution! Do not power off the device while updating.**

## V02.22.01

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Released on: May/06/2022

### Bugfixes

- general:
  - MobileTech connectivity issue via Bluetooth fixed

## V02.22.00

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Released on: Apr/13/2022

### Improvements

- general:
  - Operator Name can be set in System Settings and is stored in every result file
  - Navigation now possible with buttons on Workflow Homepage
  - Workflow Label List is positioned on entrance on active Label
  - Workflow Label List's active Label is marked bold
  - Remove Test Profiles Viewer
  - Don't allow FiberMap saving
  - Wifi and Bluetooth connectivity can now be used without Software Option
  - Reboot is offered after Reset which should be executed
- OLTS-85: New Standard Limits for OLTS Loss/Length measurement ISO/IEC 14763-3:2014 and ISO/IEC 14763-3:2019
- OLP-87: XGPONmeter is now called XGS-PONmeter. Adapt to standard change of 1578nm to 1577nm

## Bugfixes

- general:

- Title Text in some older measurement applications was disrupted
- Delete storage result index when project is deleted
- Wifi Icon was not shown in some apps correctly
- Measurement storage view in inspection app had an issue with display of test profile name also column was not wide enough
- Measurement applications could be unresponsive in some cases when a list menu was empty

OLTS-85:

- Switching sound on after sound was switched off didn't work for applications that play a sound while measuring.

## V02.20.06

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Released on: Jan/18/2022

### Improvements

- general: Disable special characters input for FiberID that J-Reporter can't handle `/*?\"<>|`
- For OLP-87 NGPON2 the standard setting was changed from THz to wavelength in nm.

### Bugfixes

OLP-87 NG-PON2:

- UI now shows upstream wavelength range and not only expected wavelength.
- Also the Downstream channels are now named ch1 to chx and not OLT 1 to OLT x.

## V02.20.04

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Released on: Dec/17/2021

### Bugfixes

MPOLP-85, MPOLP-85P, MPOLS-8x, MPOLS-8xP, OLTS-85, OLTS-85P:

- Labels with leading or trailing spaces were not shown when reading the label list

## V02.20.03

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Released on: Dec/09/2021

### Bugfixes

MPOLS-85:

- Change of Output Power Level at 1550nm after Standby

## V02.20.00

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Released on: Nov/17/2021

### Features/Refinements:

OLTS-85 and MPOLP-85:

- Create Workflow Project with Labellists through J-Reporter. Also possible from csv file imported by J-Reporter
- Support for IEC 61280-4-5 with MPOLS-84/85 and MPOLP-85. Limits are calculated according to the given parameters.
- Display of the currently selected test in Labellist was not visible very well

### Bugfixes

OLTS-85:

- potentially wrong Wavelengths were displayed in inactive Test Configurations Fiber Loss coefficient
- Scrolling to the top or bottom and beyond was almost unusable with bigger list views (Labellist, Project List,...)
- Scrolling in Labellist never shows the expanded Labels test in the view

- BiDi measurement: Device had to be restarted if testing was executed too fast.

MPOLP-85/MPOLS-85:

- Scrolling to the top or bottom and beyond was almost unusable with bigger list views (Labellist, Project List,..)
- Scrolling in Labellist never show the expanded Labels test in the view

MPOLS-85:

- wrong margins were displayed for single channels on MPOLS with new calculated limits

All SCF Devices

- Status Bar Text was Flickering upon entering Application GUIs

## V02.18.03

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Released on: Mar/30/2021

### Features/Refinements:

OLP-88S:

- WiFi Connectivity issue with DTAG SAA fixed

## V02.18.00

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Released on: Dec/22/2020

### Features/Refinements:

MPOLx:

- Temporary Communication Issues fixed
- Hint for new Reference Enforcement after 24 Hours implemented

OLP-88:

- Wrong wavelength indication in XGSPON detailed view fixed

OLTS-85:

- Choice between Reference- and Standard Grade Connectors available
- Hint for new Reference Enforcement after 24 Hours implemented
- Support Addendum TIA-568.3-D-1 standard in TIER1

General:

- Support of Italian Language

## V02.16.00

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Released on: Aug/18/2020

### Features/Refinements:

OLP-85:

- Indication of InService Loss Test ON/OFF

MPOLx:

- Limits for Reference Quality Check are adapted depending on reference method (1 cord, 2 cord, 3cord)
- Fix in Detail View of Reference Quality Check: Power Levels in in Detail View are now displayed in correct colors
- LED/Laser of MPOLS-84/85 could not always be switched ON and Off with the "Center Key"
- Enlarging Reference Check Levels

OLP-88S:

- Invalid Settings on OLP-88S were removed

OLTS-85:

- TRC Length was incorrectly calculated when the device was set to feet instead of meter

General:

- SmartAccess Anywhere Packages can only be installed on OLP-88

## V02.14.04

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Released on: May/18/2020

### Features/Refinements:

OLP-87:

- Fix for S/W crash during Reference value setting

MPOLx:

- Fix for mixed up Limits with 850/1300nm

## V02.14.03

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Released on: May/11/2020

### Features/Refinements:

OLTS-85:

- Wrong Fiber Length calculation with Length unit setting to feet was fixed.

MPOLx:

- Even after a good reference procedure the MPOLx device has shown an issue with TRC-1.
- Shortened Connection establishment when more than 1.000 results are saved.

## V02.14.02

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not released!

## V02.14.01

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Released on: March/16/2020

### Features/Refinements:

OLTS-85:

- Under "Test Configuration --> Cable & Connector Settings", a customized cable couldn't be selected once the device was turned off and on again.

MPOLx

- improvements to set-reference wizard

## V02.14.00

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Released on: February/28/2020

### Features/Refinements:

MPOLX-85:

- New Fibermap Application on MPOLS-8x and MPOLP-85
- Further Improvements of Loss measurement accuracy due to compensation of singlemode PDL

SmartClass Fiber Workflow:

- Deleting of Cable Sets enabled
- Removing leading and subsequent blanks in project names

## V02.12.03

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Released on: December/10/2019

### Features/Refinements:

MPOLP-85:

- Improved compensation of polarisation effects for single mode fiber

## V02.12.02

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- Obsolete

## V02.12.01

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Released on: August/28/2019

### Refinements:

OLP-88:

- Typo and GUI Layout Issue fixed under French Language setting

## V02.12.00

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Released on: August/21/2019

### Features/Refinements:

Overall:

- Connectivity with SmartAccess application
- Management of SmartAccess packages

OLP-88:

- Improved input protection for 1490 nm

MPOLx:

- Test Reference Cord length handling
- Improved length measurement
- Improved Memory Management and Usability for Projects with a large amount of stored data
- New Multi Mode cable type OM5

OLTS Loss/Length:

- Test Reference Cord length handling.

### Fixes:

General:

- Removed 'Copy Project' for Workflow Projects

MPOLx:

- Bug Fix for Connection Loss in case of large amount of stored data

OLP-88:

- Video wavelength (1550 nm) is now available on overview screen

## V02.10.00

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Released on: Mai/15/2019

### Features/Refinements:

XGS-PON support for OLP-88 in combination with option "Add XGS-PON Wavelengths 2327/94.04"

## V02.08.02

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Released on: Mar/25/2019

### Fixes:

Compatibility to devices with laser sources on Hardware Version: 2315-7001

**How to show HW Version** ==> In homescreen press **HELP** button ==> Then press **Device Info**

## V02.08.01

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Released on: Jan/08/2019

### Features/Refinements:

Support of Portuguese language

**Fixes:**

Length measurement showed allways 0.0ft/m

## V02.08.00

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Released on: Nov/28/2018

**Features/Refinements:**

Overall:

- Improved Memory Management and Usability for Projects with a large amount of stored data
- Data Export function extended for SmartReporter
- Added Chinese Language.
- Added Portuguese Language

MPOLx:

- PSM4 Limit added for SM MPO measurement

**Fixes:**

General:

- Bug Fix for Length Limit Import of CertiFi MPO Test Configurations

## V02.06.04

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Released on: Aug/09/2018

**Fixes:**

MPOLx:

- Strong Temperature dependency for length measurement on multimode fibers

## V02.06.03

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Released on: Aug/06/2018

**Fixes:**

MPOLx:

- Improved communication stability

## V02.06.02

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Released on: Jul/30/2018

**Fixes:**

MPOLS:

- Fixed wrong temperatur measurement

## V02.06.01

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Released on: Jul/17/2018

**Fixes:**

MPOLx:

- Fixed occasional connection issue

## V02.06.00

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Released on: Jul/16/2018

**Features/Refinements:**

General:

- Screenshot shortcut (long press of workflow and save button) and export to USB drive
- Updated translations. Added Japanese (ja\_JP) translation.

- Updated application icons
- Multiple user interface enhancements

OLTS Loss/Length:

- Mixed operation of PCM and non-PCM versions

MPOLx:

- Loss deviation verification for individual fibers after referencing
- Improved referencing sequence with animations
- Support of MPO-12 4x4 cables (where center 4 fibers are not present). **HW Revision 005 or higher required!**
- New setup :TIER1MFR:SENS:POW:REF:LIST. Returns a sorted list (depending on the polarity) of reference power values
- Mixed operation of PCM and non-PCM versions
- Certifi support

TruePON:

- Increased processing speed for multiple ONT activation

**Fixes:**

General:

- Bluetooth still discoverable even when disabled
- USB flash drive issue while disconnecting when 2 drives are attached

TruePON:

- Fixed ONT serial number detection issue with FiberHome OLTs

## V02.04.04

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Released on: May/16/2018

**Features/Refinements:**

OLTS Loss/Length:

- Measurements can be performed now with a mixture of PCM and non-PCM Versions of OLTS Testers

MPO Loss/Length:

- Measurements can be performed now with a mixture of PCM and non-PCM Versions of MPO Testers

**Known bugs**

On single mode sender devices (MPOLS-85) the output level can be 3dB lower than shown on the display

## V02.04.03

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Released on: April/10/2018

**Features/Refinements:**

General:

- Added showing Bluetooth PIN in Bluetooth Settings Menu
- Fixed back key issue in input dialog

OLTS Loss/Length:

- Added cancelling the Swap Cables state by pressing the back key
- Refined pairing error messages so one can better see if the error is due to non-matching instruments or different software versions
- Improved repeatability of length measurement
- Fixed issue with calculation of margin limits
- Fixed missing bi-directional result display in measurement data
- Fixed issue with different cable losses in bi-directional measurements
- Fixed various issues in test procedure that caused test errors/aborts

MPO Loss/Length:

- Added support of MPO-8 connectors (Center-8 and 4x4)

Microscope/PCM:

- Fixed issue with light overexposing

**Known bugs**

On single mode sender devices (MPOLS-85) the output level can be 3dB lower than shown on the display

## V02.04

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Released on: February/16/2018

### Features/Refinements:

- MPOLx and OLTS devices: wlan and bluetooth options are integrated by default.
- All: Added input for static ethernet settings.
- All: Added auto-increment feature for fiber index.
- Microscope/PCM: Removed obsolete default Test Profiles
- MPO Powermeter: Added warning when active wavelength is different from reference wavelength.
- MPO Powermeter: Recall the previously selected channel when switching back from table to bargraph view.

### Fixes:

- All: Wrong measurement numbers in test results list.
- All: Fixed various typos.
- OLTS Loss/Length: Fixed various connection/communication issues between local and remote devices.
- PCM: Changed wrong status message "PCM not connected" with "PCM is initializing"
- LaserSource: Wrong power limits in level adjustment screen when changing between CW and modulated signals.
- MPO Powermeter: Fixed refreshing issue in bargraph view.

### Known bugs

- Calibration of touch screen becomes effective only after a restart
- MPOLS-85 level fluctuations of +/-0.1dB

## V02.02.07

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Released on: December/22/2017

### Features:

- Bluetooth and wifi options equipped as standard on MPOLx and OLTS

### Fixes:

- Improvement of measurement accuracy (length/loss) on OLTS
- Improvement of bluetooth and wifi connectivity
- randomly false LOSS measurements displayed on MPOLx
- battery deep discharge

### Known bugs

- AC adaptor plugged in, no accu and device is switched off => after hours the device will not start up when pressing power ON key.

This happens also with dry cell battery and AC adaptor plugged in.

**solution** => unplug and plug in the AC adaptor => now power ON again

## V02.02.06

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Released on: November/23/2017

### Fixes:

- On MPOLx length measurement with multi mode sender was uncertain

## V02.02.05

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Released on: November/08/2017

### Fixes:

- USB interfaces are switched off during SCF device startup to prevent device from over current caused by external plugged devices
- New MCU firmware for more accuracy in MPOLP power measurement
- Some minor fixes

## V02.02.04

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Released on: October/23/2017

### Features:

- Support for NGPON2

## V02.02.03

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Released on: October/16/2017



**Fixes:**

- Output value for laser source is now adjustable during calibration (not for customer use)

## V02.02.02

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Released on: October/09/2017

**Fixes:**

- After suspend/resume (short POWER off) MPOLx Source/Powermeter did not work again

## V02.02.01

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Released on: October/12/2017

- Only for internal use

## V02.02.00

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Released on: September/28/2017

**Features:**

- New MPOLx Source application
- New MPOLx Powermeter application
- Ported OLTS L/L application to V2UI
- Ported SOURCE application to V2UI
- Added enabling/disabling unsaved result warning to MPOLx L/L
- Added Activation Button to project, test profile, test configuration lists
- Added Tab View key navigation (up/down arrow keys)
- Added List View wrap around for key navigation
- Added List View auto repeat functionality for key navigation
- Added Application loading spinner

**Fixes:**

- Changed remote control return value for array results from 0,0,0,... to 9.91E37 (NaN)

## V02.00.07

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Released on: August/30/2017

**Fixes:**

- Changes for TIA Input recognition, mult imode needs higher offset avoiding failed channel detection
- New MCU firmware update method, update if firmware on mcu != local mcu firmware stored on i.mx system => take highest from i.mx

## V02.00.06

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Released on: August/17/2017

**Fixes:**

- Application didn't start up after short pressing ON/OFF (sleep mode)

## V02.00.05

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Released on: July/20/2017

**Fixes:**

- Various fixes in MPOLx-85 Loss/Length application.

## V02.00.04

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Released on: July/17/2017

**Fixes:**

- Occasional serious error after updating instruments.

## V02.00.03

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Released on: July/12/2017

**Fixes:**

- Issue with manufacturing remote command

## V02.00.02

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Released on: July/05/2017

**Fixes:**

- OLTS-85 Loss/Length: Fixed issue in length measurement.
- MPOLx Loss/Length: Fixed channel switching issue.
- MPOLx Loss/Length: Fixed communication issue.

## V02.00.01

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Released on: June/01/2017

**Fixes:**

- SW update issue

## V02.00.00

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Released on: May/22/2017

This release provides:

- **Changed port number from 5800 to 8000 due to compatibility reasons with other VIAVI devices**
- New color scheme for Homescreen and several Menues
- Differentiation of Test Tool Projects and Workflow Projects for "CertiFi Cloud Application" (CertiFi supports only OLTS-85)
- Support of WiFi Ad-Hoc Mode
- Support of Bluetooth Interface
- Support of new Applications MPOLS-85 and MPOLP-85
- Fast discharge of dry batteries fixed
- Status Bar in Inspection App removed
- Improved OLTS Connectivity Procedure
- OLTS Tier1 Application was renamed to Loss/Length
- OLTS-85 reference value is assigned to the Remote Serial #
- Delete Results and Projects on OLTS Remote enabled
- Various Bugfixes and Improvements

## V01.28.05

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Released on: November/09/2016

This release provides:

- Correct indication of cable length in feet
- Improved battery charging in standby mode
- Improved connectivity of Local and Remote for OLTS-85

## V01.29.90 (2327,2328 | OLP-88 only)

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Released on: September/20/2016

This release provides:

### **TruePON application:**

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- French translation

## **V01.28.03**

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Released on: August/08/2016

This release provides:

- Info dialog box with "Negativ Loss" resultes

\*Bugfixes

- wrong "Multi Mode" length measurement

## **V01.29.18 (2327,2328 | OLP-88 only)**

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Released on: June/16/2016

This release provides:

### **TruePON application:**

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- Detection of deactivated ONU/ONTs
- Detection of disabled ONU/ONTs
- Detection of OLT type
- Detection of ONU/ONT type
- PON-ID format selection (ASCII or hexadecimal)
- Access measurement detail screens via on-screen menu
- Redesigned measurement data detail views
- Added power level to summary view
- Added wavelength in power level detail views
- Various minor GUI improvements

## **V01.28.01**

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Released on: June/16/2016

This release provides:

Added Loss Application to OLTS-85 / OLTS-85P

\*Bugfixes

- Storing of TIER1 Results

## **V01.28.00**

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Released on: Mar/09/2016

This release provides:

### **Improvements to all OLx devices:**

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- Migration to the new viavi branding
- Improved project management
- Improved save usability across all applications

## **OLTS-85:**

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- Picture import from remote OLTS-85 to local OLTS-85

## **OLP-88:**

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- New OLT type detection feature
- New Demo Screens view
- Enhanced Pass/Fail setting capabilities
- Improved detail views
- Various minor GUI improvements

## **V01.26.01**

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Released on: Dec/17/2015

This release provides:

- Software for the new OLP-88
- Bugfixes
  - If one pressed ON/OFF switch very quick and often, the device hang.  
To get the device working again it was necessary to pull out battery and switch of ac adaptor

## **V01.24.03**

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Released on: Nov/27/2015

This release provides:

- Software for the new OLTS-85x
- Bugfixes
  - Memory leaks in microscope part

## **V01.22.04**

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Released on:

This release provides:

- Incorrect storing and deleting of measurement and microscope data when using comma, dots in file names

## **V01.22.00**

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Released on:

This release provides:

- In-Service Measurement Option for Powermeter (In-Service Loss Test 2307/94.01)
- Manual and Device Info were moved from System Settings to Help menu on Homescreen
- USB stick detection and data export to USB stick (CSV format)
- New Remote Control Format for Strings that contain commas
- OnScreenMenu indicator
- Ethernet support improved
- Bugfixes
  - Device hangs when a key (other than power key) is pressed while device is switched off (not hard off) => corrected

- AM/PM Time format corrected
- Minor bug fixes and improvements

## V01.20.00

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Released on: June/18/2014

**This release supports the following OLx - Devices (also with PCM-Camera): OLP-87, OLP-85, OLS-85, OLT-85, ORL-85**

This release provides:

- New long time supported (LTS) linux kernel V03.10.26
- Remote control over ethernet
- the new "optical loss test" device OLT-85 and "optical return Loss" device ORL-85
- QWERTY keyboard
- manual for OLT-85 and OLS-85
- Bugfixes
  - Setting time and date format only had an effect after a project change
  - Minor bug fixes and improvements
- Known issues:
  - When turning the device on and it's starting up from cold boot, the ethernet starts with 'DHCP' on.
  - Even if 'STATIC' was selected and the setting screen shows 'STATIC'.
  - If you want to work in 'STATIC' mode please switch to 'DHCP' and back to 'STATIC'

## V01.18.01

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Released on: Feb/05/2014

**This release supports the following OLx - Devices (also with PCM-Camera): OLP-87, OLP-85, OLS-85**

**Attention:**

- Because of reorganizing the internal data storage all your stored measurement data/pictures will be lost.
- Before updating to this new software version, please save you internal stored measurement data and pictures

This release provides:

- Device Manual on Device
- Reporting Generation/Reading on Device with USB Stick export
- Better User Experience when navigating back through menus
- System wide application of Date and Time format: measurement Data, reports etc.
- Some refinements and minor bugfixes

Issues:

While operating the device remote controlled via USB, please connect external power supply.  
Or switch "Auto-Off" to never, to prevent from switching to standby mode.

## V01.14

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Released on: Aug/01/2013

This release provides:

- Ethernet operation
- Ethernet remote control

- Pass/Fail functionality on powermeter
- Patch Cord Microscope (PCM) on OLP-87P
- GUI improvements
- Some refinements and minor bugfixes

## V01.12

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Released on: APR/09/2013

- This release provides XGPON capability to OLP-87 devices with max. 5 wavelength. It also supports broadband measurement on the same device
- Support of software optioning
- Software update with USB stick > 2GByte
- Image panning possible in microscope application
- Improved speed
- Improved input checks
- Refinement of usability
- Some bugfixes

## V01.10

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Released on: DEC/12/2012

### Description:

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This release provides broadband capability to OLP-87 devices with two wavelength PONmeter

It also provides fixed minor issues and some beautifications for the GUI

## V01.08

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Released on: OCT/30/2012

### Description:

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This release provides some fixed issues and minor enhancements for the GUI

### Fixed issues:

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PLATFORM:

- Microscope application crashed after 30 minutes
- Camera adjustment was lost after switching power off and on again
- Touch screen misses events occasionally
- Low Battery LED was not working properly
- memory leak in remote application

### New features and improvements:

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- autoincrement for FiberID when saving measurements

## V01.06

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Released on: SEP/21/2012

## **Description:**

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This release provides a major GUI redesign which improves user interaction and readability. Furthermore some issues are fixed.

## **New features and improvements:**

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- Redesign of the GUI

## **Fixed issues:**

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PLATFORM:

- The Homescreen crashed when the DATA icon was pressed after a certain time
- The device may have shutted down if the touchscreen was pressed intently

## **Known Issues:**

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PLATFORM:

- The device wakes up from Standby if the touchscreen is pressed

MICROSCOPE:

- On devices that get updated additional profiles that shouldn't be available on the camera are available

## **V01.04**

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Released on: AUG/21/2012

## **Description:**

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Maintenance release with minor bug fixes.

## **V01.00**

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Released on: AUG/15/2012

## **Description:**

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FCS release.