

HELIOS LED Processing System

PX1 Receiver

Release Notes v20.01.0

Table Of Contents

Legal	3
Contact	3
Introduction	3
HELIOS Upgrade Instructions	4
PX1 Upgrade Instructions	7
Version Information	8
Officially Supported Tiles	8
New Functionality	8
Bug Fixes	10
Known Issues	10
PREVIOUS RELEASES	11
Version v19.11.0	11
New Functionality	11
Bug Fixes	11
Known Issues	11

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Introduction

The HELIOS LED Processing Platform also includes the PX1 Tile Receiver Card as part of a complete system.

Some features/improvements may require updating the PX1 receiver card firmware also.

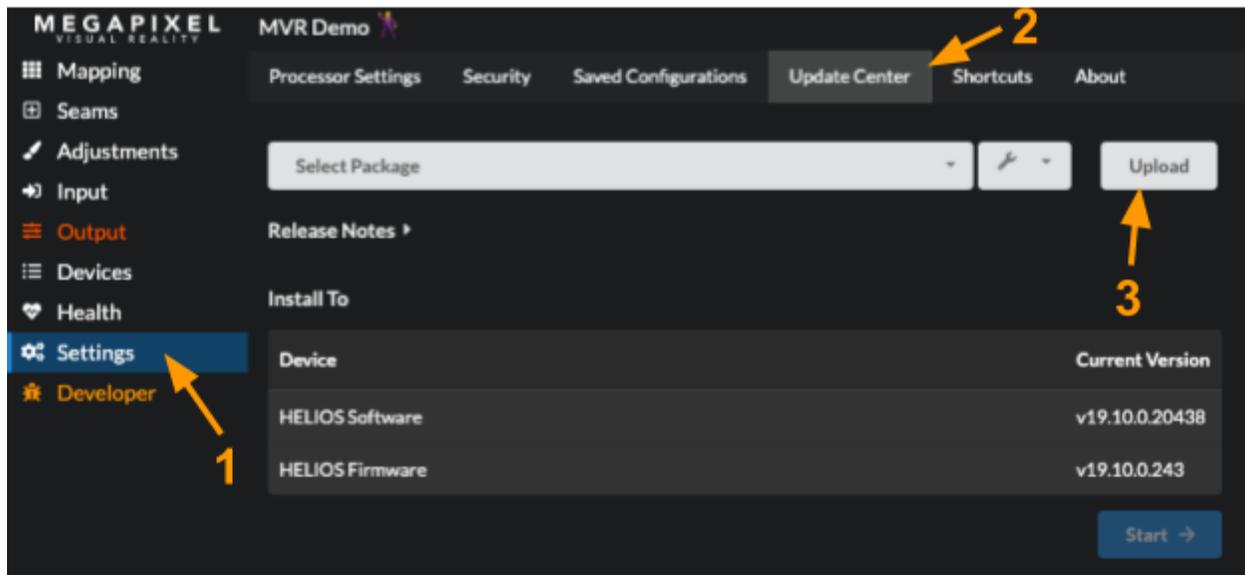
The current user manual and releases for the HELIOS LED Processing Platform can be found at: <http://www.megapixelvr.com/support/>

It is always recommended to update the HELIOS Processor software prior to upgrading the PX1 Receiver Card firmware.

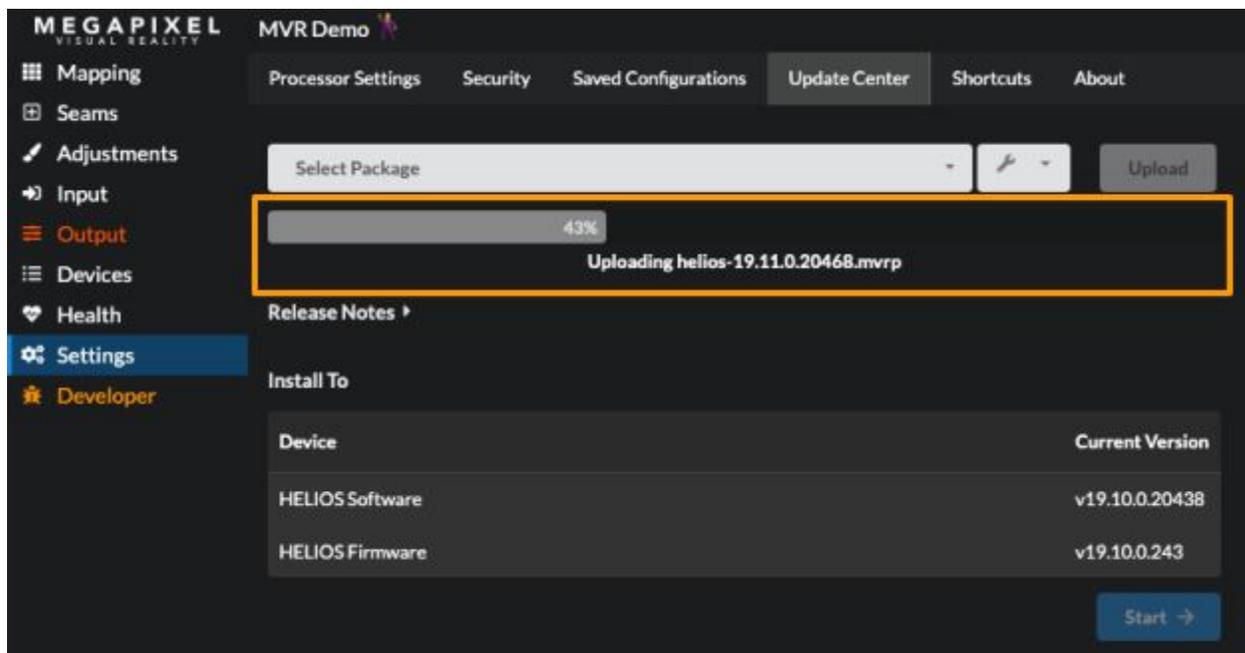
Upgrading the HELIOS Processor will upgrade both the software and firmware versions as needed on the HELIOS Processor.

HELIOS Upgrade Instructions

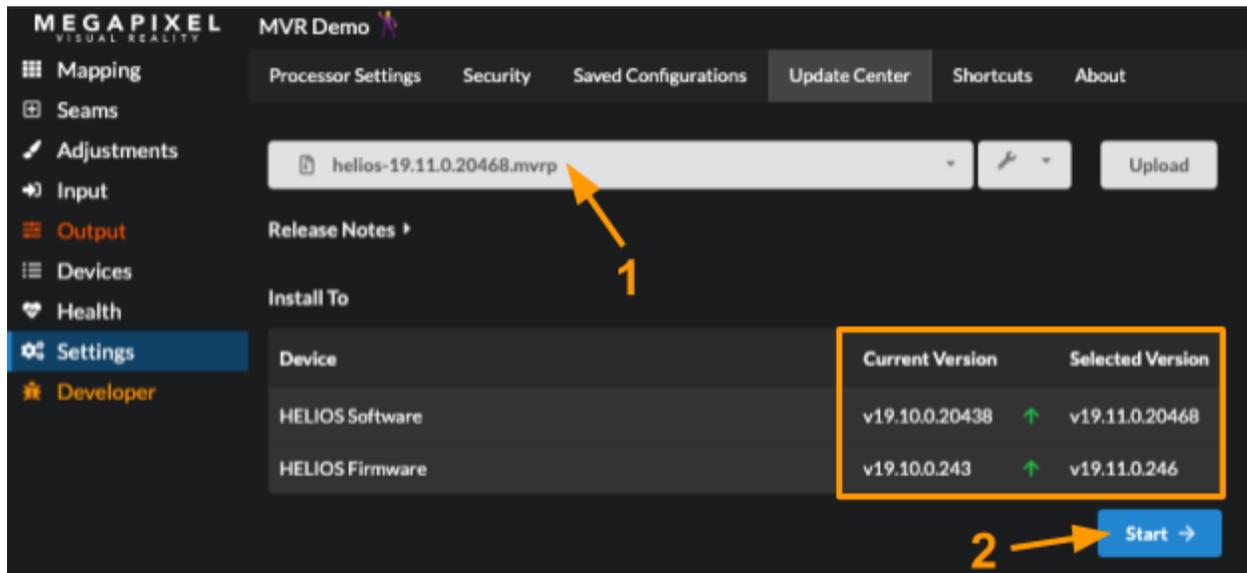
In the HELIOS web UI navigate to: *Settings->Update Center* and select the "Upload" button.



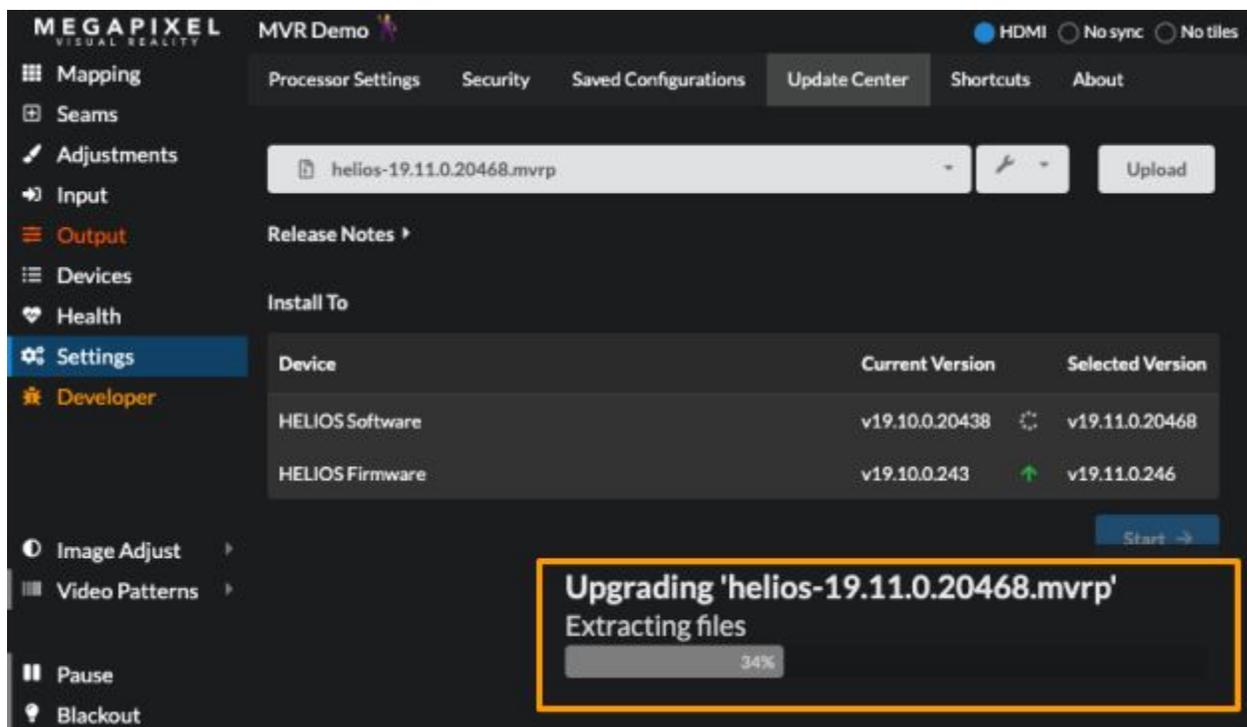
Browse to the current software .MVRP file your computer and upload it. You should see the following progress bar as the file is being uploaded.



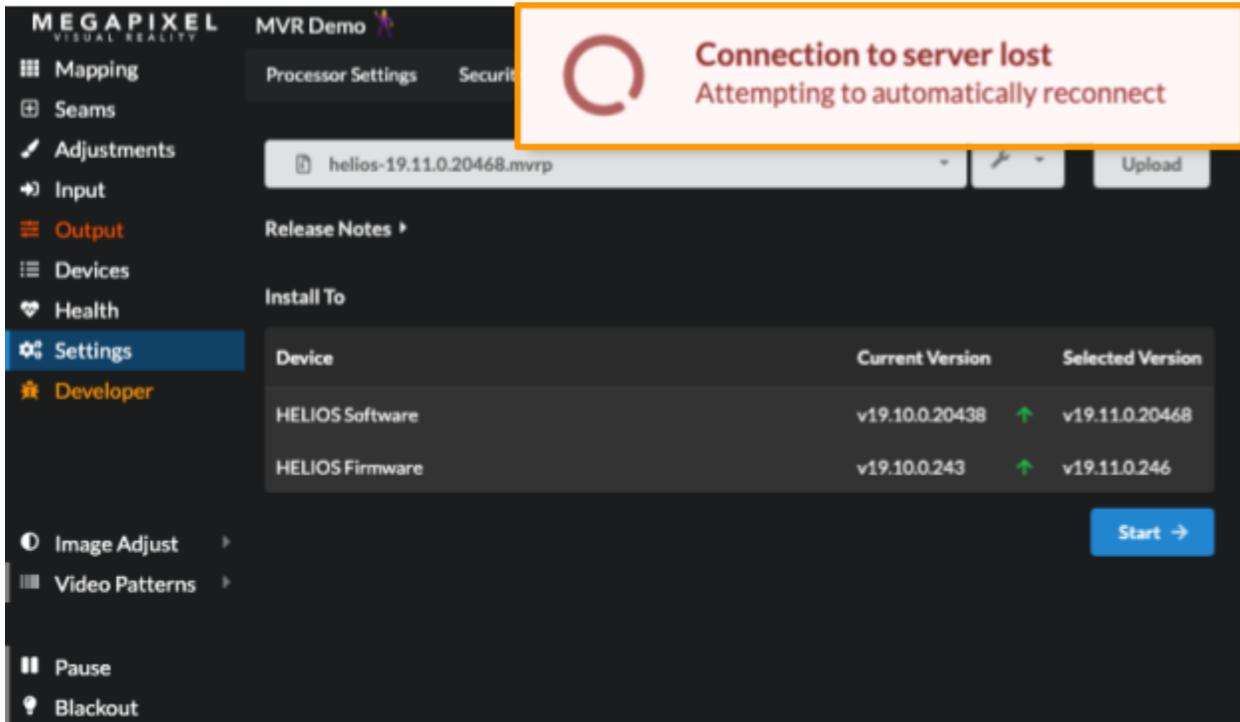
After the package has uploaded, you can then execute installation by selecting the appropriate MVRP package in the drop down list (1) and then clicking on "Start" (2).



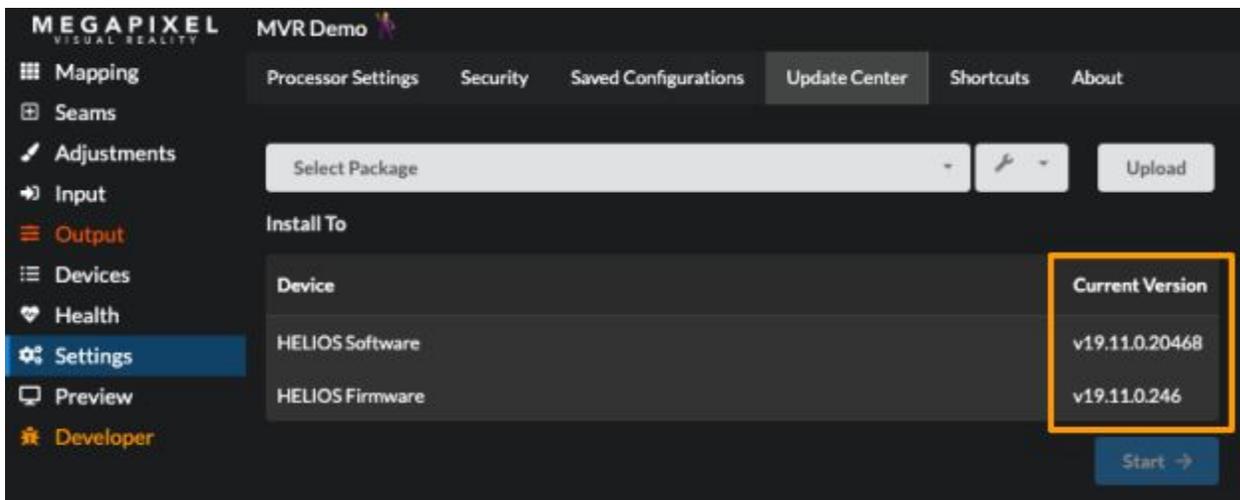
You will then see the upgrade process continuing as shown below.



During the upgrade, you will see the "Connection to server lost" message as HELIOS is performing the upgrade and restarting.



Once the upgrade is complete, you can see the current software and firmware versions displayed below.

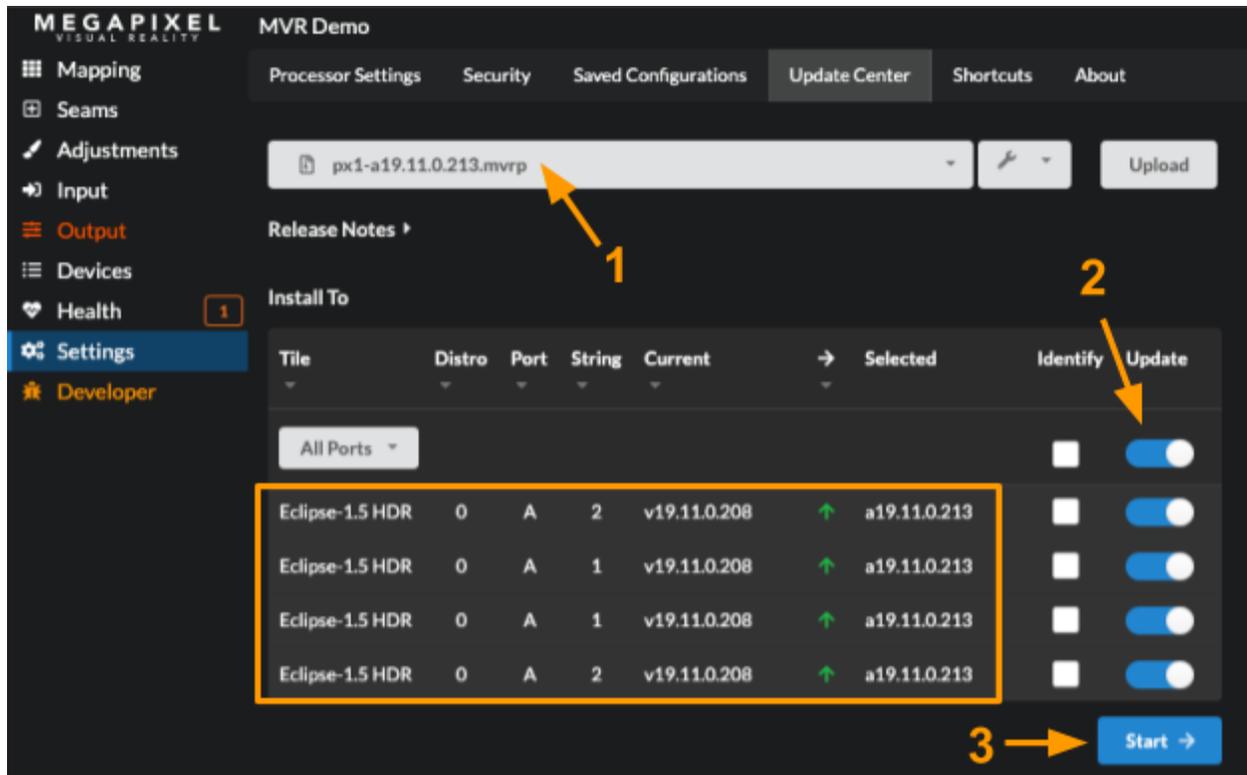


PX1 Upgrade Instructions

Once the firmware for the HELIOS Processor has been updated, then the firmware for the PX1 Tile Receiver Cards may also be upgraded using a similar process. Upload the PX1 Receiver Card firmware (px1-xx.xx.xx.xxx.mvrp) using the same process above and then select it in the drop down list.

You will then be presented options for which tiles to update to the latest firmware.

You can enable/disable which tiles are included in the firmware update and then press the "Start" button in order to initiate the firmware upgrade process.



Version Information

After updating, the following should be displayed as the current versions:

Device	Version
HELIOS Software	v20.01.0.20551
HELIOS Firmware	v20.01.0.252
PX1 Receiver Card	v20.01.0.245

Officially Supported Tiles

- Revolution Display ADVHD1.5
- Revolution Display ADV4 / ADV5 / ADV8
- Revolution Display RS1 / RS2 / RS3
- ROE Amber 1.5
- ROE Black Quartz 4.6
- ROE Diamond 2.6
- ROE Ruby 2.3
- ROE Sapphire 1.5

New Functionality

- New HELIOS Jr. model released.
- Adjustments - Intensity adjustment to quickly adjust the brightness of a group of LDMs added. (#449)
- Canvas - Escape to deselect any selected objects. (#433)
- Input - Alert when an unrecognized/invalid input is detected. (#436)
- Mapping
 - Show aggregated port details when multiple tiles are selected.
 - Theater mode settings to adjust tile(s) max luminance to a different calibration target. (#450)
 - Show additional test patterns in HELIOS that are supported by tile firmware. (#415)

- Output
 - No longer categorized as "advanced functionality".
 - "Automatic" gamut automatically adjusts the display's gamut to match the source advertisement (which is going to be Rec. 709, see known issues).
 - Added "Limit max to lowest tile max" setting to control how max display brightness is calculated. (#411)
- Light Science feature added for tiles which support enhanced low level controls. (#432)
- PX1
 - Improved control over gamma curves added.
 - Advertise available test patterns to HELIOS. (#415)
 - Added small grid test pattern.
 - Ethernet PHY LED's are now disabled when turning off "Show Indicators" for the tiles.
- Health
 - Reports - Include device's serial number in all reports.
- Settings
 - Identify behavior option added- "Front identify & Rear indicator", or "Rear indicator only". (#264)
 - Licensing (#6)
 - Support for per-unit feature based licensing added.
 - All existing HELIOS units will automatically be issued a "Standard" license to allow selection between Standard & Jr modes.
 - Operating mode (#326)
 - Control whether HELIOS is configured in "Standard" mode (8 x 10GbE SFP+) or a new "Junior" mode (8 x 1GbE copper SFP).
 - Requires HELIOS using at least a OS 19.10.0 release. This can be verified under Devices->Processor->expand HELIOS and note the version listed for "OS". (For those needing this functionality with an OS version lower than 19.10.0, please contact Support for details on upgrading your OS.)

Bug Fixes

- Devices - Removed support for incompatible SFPs. (#6)
- LCD
 - Show dual DP/HDMI in preview thumbnails for HELIOS configured using dual DP or dual HDMI input card configurations.
 - Update current input details if the input is changed while test pattern is active.
- Input
 - Avoid truncating reported frequency (e.g., 59.94).
 - Fix a DP state issue on disconnect. (#387)
- Output
 - Corrected bit depth calculation for 10-bit with non-60Hz frequencies. (#445)
 - Removed "Disabled" gamut.
- Settings
 - Networking - Keep static IP assignment when a DHCP server is available. (#462)
- Updates - Show HELIOS port information when updating tiles.
- Addressed an EEPROM write issue.
- Fixed bad sensor readings after a reboot. (#403)
- Sensor report improvements.
- Suppress some repeat error messages.
- PX1: Clearing Counters isn't clearing PHY errors. (#407)

Known Issues

- Input - Advertised input colorimetry is often incorrectly assumed to be Rec. 709 (#64)
- Output - Still need to handle non-scalable and wide inputs (#210)
- Previews - Only single inputs are supported. i.e., 2x2 SDI, 4x1 SDI will be black (#395)

PREVIOUS RELEASES

Version v19.11.0

Device	Version
HELIOS Software	v19.11.0.20468
HELIOS Firmware	v19.11.0.246
PX1 Receiver Card	v19.11.0.216

New Functionality

- Input - Automatically expand details for the selected input (#358)
- LCD - Make it more obvious when in blackout/test pattern (#209)
- Processor Settings - Renamed Experimental to Advanced mode (#334)
- Preview - Support preview for single inputs, but still working on stitched inputs (#159)

Bug Fixes

- Application - Continue showing current input while test pattern is active (#357)
- Devices - Timeout detected sensor faults (#388)
- PX1 - Added delay after blackout before putting tiles into low power mode (#329)
- Fixed Alert Names (#163)

Known Issues

- Previews - Only single inputs are supported. i.e., 2x2 SDI, 4x1 SDI will be black (#395)