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TOPLINE FIRMWARE RELEASE NOTES

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Products affected: TopBC-2184

TopBC-2189

TopBC-2114, TopBC-2119, TopBC-2124

TopFD-2283

TopFD-2131-AF

Release date: 2017-sept-12

Release type: Production

Firmware version: 3.15.5

Preceding release: 3.15.1

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MODIFICATIONS

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* [i59867] Enhanced timing metadata in H264 stream

H264 streams now specify a timestamp for every frame. Note that not all decoders can utilize this information.

* [i35123] Enhanced color metadata in H264 stream

H264 streams now specify the color range and color space to be applied.

Note that not all decoders can utilize this information.

CORRECTIONS

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* [i56589] Improved support for long exposure times and very low frame rates

When operated with long exposure times (frame periods longer than 1 second), the camera sometimes showed unexpected behavior. Now, exposure times, resp. frame periods, of up to ten seconds are possible, depending on the camera model. Note: The accuracy of the automatic exposure time control may be reduced when working with low frame rates, especially when using a DC iris. Setting the Exposure Time Limit parameter to 'Off' sets the limit to one second, as it did in previous firmware versions.

* [i56231] Frame rates displayed in text overlays

The frame rate displayed in the text overlay now shows the correct value for rates below 0.5 fps.

* [i56318] Maximum frame period increased to 10 seconds

Frame rates below 0.111 fps no longer trigger a watchdog reboot.

KNOWN LIMITATIONS

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* [18255] The MPEG4 encoder does not support input images greater than 1920 x 1920

If the sensor AOI is greater than 1920 x 1920, MPEG4 cannot be selected as the encoder type.

If the MPEG4 encoder type is selected and the sensor AOI exceeds the

limitations, the encoder type will automatically be switched to ENC_OFF.

* [#908] One push focus

For a maximum auto focus accuracy, stream #0 should be configured in such a way that there is no output scaling for the auto focus operation.

This applies only to cameras with motor focus hardware.

* [#923] H.264 or MPEG-4 multicast streams do not contain audio data.

* [#1485] Firmware update

Updating from firmware version $\leq 3.7.0$ to firmware version 3.8.0 or 3.9.0 could fail in some rare cases. Updating from a firmware version $\leq 3.7.0$ to a firmware version $\geq 3.10.0$ requires the prior installation of the "FirmwareUpdateHelper" in order to handle the update safely. The "FirmwareUpdateHelper" can be obtained via www.basler-ipcam.com. It can be uploaded to the camera using the normal firmware update procedures and offers a safe firmware update afterwards.

When updating from a firmware version $\leq 3.7.0$ to a firmware version $\geq 3.8.0$, the use of the "FirmwareUpdateHelper" is strongly recommended.

* [#1652] No streaming data when firmware downgrade is realized on boxed

CMOS-based camera models

When downgrading from firmware version $\geq 3.10.0$ to firmware version $\leq 3.9.0$ the TopBC-2114, the TopBC-2119 and the TopBC-2124 camera models do not deliver any streaming data. This can be fixed by disconnecting and reconnecting the power to the camera or by updating the camera to firmware version $\geq 3.10.0$ again.

* [20571] No streaming data when firmware downgrade is realized on dome

CMOS-based camera models

When downgrading from firmware version $\geq 3.12.0$ to firmware version $\leq 3.11.1$ the TopFD-2131-AF camera model does not deliver any streaming data. This can be fixed by disconnecting and reconnecting the power to the camera or by updating the camera to firmware version $\geq 3.12.0$ again.

* Firmware update with the Basler IP Camera Finder

Use the Basler IP Camera Finder version 1.7 or higher when performing a firmware update on cameras where firmware version 3.8.0 or higher is installed.

* ONVIF

- When enabling the ONVIF service, the time zone will be reset to UTC.
- Changes to the time zone via native API are not visible to the ONVIF service (and could be overwritten).
- Changes to the network ports of the HTTP and RTSP services via native API are not visible to the ONVIF service and may render the ONVIF service dysfunctional.
- If user authentication is to be used together with the ONVIF service, all users have to be configured by ONVIF requests. Changes to the user database via native API will be overwritten by ONVIF requests.
- When using ONVIF for streaming data, the configuration of the related stream(s) will be adjusted.
- When starting a stream by ONVIF, there is a long delay.
- Simultaneously running ONVIF clients compete with each other regarding audio streaming settings. Therefore, the ONVIF profile that was enabled last, determines if audio is on or off for all clients.