



## FrameLink Express Release Notes – 08/10/2011

- Updated Application program to version 1.4.0.128 ( from 1.3.0.99 ).
- Updated Library/SDK to version 3.3.2.110 ( from 3.0.0.50 ).
- Updated Driver to version 1.4.0.128 ( from 1.3.0.99 ).
- Updated Firmware to version 0.2.0.2 ( from 0.1.0.13 ).

<b>Release – 1.4.0.128</b>		<b>Changes from Release – 1.3.0.99</b>	
<b>Appl</b>	<b>1.4.0.128</b>	<b>Appl</b>	<b>1.3.0.99</b>
<b>Lib/SDK</b>	<b>3.3.2.110</b>	<b>Lib/SDK</b>	<b>3.0.0.50</b>
<b>Drv</b>	<b>1.4.0.128</b>	<b>Drv</b>	<b>1.3.0.99</b>
1	Appl	Added support for Medium modes.	
2	Appl	Disabled switching between channels if Grabbing is on.	
3	Appl	Fixed crash when allocating buffers for very large frame size.	
4	SDK	Fixed WidthPreValid field in VCECLB_CameraDataEx structure processing for 10-, 12-, 14- and 16-bit images.	
5	SDK	Added support for Medium modes.	
6	SDK	Fixed de-packing algorithm for packed data.	
7	SDK	Fixed crash when allocating buffers for very large frame size.	
8	Drv	Multiple cards support.	
9	Drv	Virtual COM port for multiple cards.	
10	Drv	CameraLink Medium mode support.	
11	Drv	Fixed Halcon driver.	
12	Drv	Fixed image buffer allocation/deallocation.	
13	Drv	Fixed driver handle open-close bug.	

<b>Firmware – 0.2.0.2</b>		<b>Changes from version 0.1.0.13</b>	
1		Added support for Medium modes.	



## FrameLink Express Release Notes – 12/15/2010

- Updated Application program to version 1.3.0.99 ( from 1.2.0.78 ).
- Updated Library/SDK to version 3.0.0.50 ( from 3.0.0.49 ).
- Updated Driver to version 1.3.0.99 ( from 1.2.0.178 ).
- Updated Firmware to version 0.1.0.13 ( from 0.1.0.12 ).

<b>Release – 1.3.0.99</b>		<b>Changes from Release – 1.2.0.78</b>	
<b>Appl</b>	<b>1.3.0.99</b>	<b>Appl</b>	<b>1.2.0.78</b>
<b>Lib/SDK</b>	<b>3.0.0.50</b>	<b>Lib/SDK</b>	<b>3.0.0.49</b>
<b>Drv</b>	<b>1.3.0.99</b>	<b>Drv</b>	<b>1.2.0.178</b>
1	Appl	Fixed Pre-Valid Height field in Camera Parameters dialog.	
2	Appl	Fixed 3 Tap interleaved unpacking.	
3	Appl	Added support of 32-bit application on 64-bit platform.	
4	Appl	Fixed application crashing on scrolling of the image.	
5	Appl	Upgraded to the IPP library for better performance.	
6	Appl	Changed Bayer Interpolation to use Intel IPP Library.	
7	Appl	Added CrashDump report - on an application crash a special file is created that can help diagnose the problem.	
8	Appl	Fixed a bug that may cause some dialogs to have a disabled foreign menu bar.	
9	Appl	Fixed default directory for CAM files.	
10	Appl	Added BobCat color cameras to set of CAM files.	
11	Appl	Fixed crash after clicking on Help-About menu item.	
12	SDK	Fixed HeightPreValid field in VCECLB_CameraDataEx structure was ignored.	
13	SDK	Fixed 3 Tap interleaved unpacking.	
14	SDK	Added support of 32-bit application on 64-bit platform.	
15	SDK	Upgraded to the IPP library for better performance.	
16	SDK	Changed Bayer Interpolation to use Intel IPP Library.	
17	SDK	Added logging of Read UART in SDK.	
18	SDK	Added sample code for Halcon.	
19	SDK	Fixed RGB camera mode.	
20	Drv	Fixed DirectShow driver.	
21	Drv	Fixed Matlab driver.	
22	Drv	Fixed UART bug in Kernel driver.	
23	Drv	Added support of 32-bit application on 64-bit platform.	
24	Drv	Fixed image FIFO bug.	
25	Drv	Fixed request cancellation error.	
26	Drv	DTR/RTS processing fixed in Virtual COM Port.	

<b>Firmware – 0.1.0.13</b>		<b>Changes from version 0.1.0.12</b>
1	Fixed problem where overruns due to a poorly performing PC could result in an interrupt storm and the PC to freeze.	
2	Turned off PCI Express Low Power Negotiation.	



## FrameLink Express Release Notes – 07/21/2009

- Updated Application program to version 1.2.0.78 ( from 1.0.0.64 ).
- Updated Library/SDK to version 3.0.0.49 ( from 3.0.0.42 ).
- Updated Driver to version 1.2.0.178 ( from 1.0.9.154 ).
- Updated Firmware to version 0.1.0.12 ( from 0.1.0.9 ).
- Added support for Windows 64 bit XP and Vista operating systems.
- Added a comprehensive set of CAM files to support cameras from leading camera vendors ( i.e. Basler, Adimec, JAI/Pulnix, etc. ).
- Added support for Microsoft DirectShow, MathWorks MATLAB, NI LabView, MVTech HALCON and Matrox MIL.

<b>Release – 1.2.0.78</b>		<b>Changes from Release – 0.1.1.0</b>	
<b>Appl</b>	<b>1.2.0.78</b>	<b>Appl</b>	<b>1.0.0.64</b>
<b>Lib/SDK</b>	<b>3.0.0.49</b>	<b>Lib/SDK</b>	<b>3.0.0.42</b>
<b>Drv</b>	<b>1.2.0.178</b>	<b>Drv</b>	<b>1.0.9.154</b>
1	Appl	Added password protection to Card Tester dialog.	
2	Appl	Fixed behavior of RGB24 and RGB30 radio buttons in Camera Parameters dialog.	
3	Appl	Changes default camera file opening to 'CAMFiles' folder in Camera Parameters dialog.	
4	Appl	Fix tap reconstruction preview in Camera Parameters dialog.	
5	Appl	Fixed animation for Tap Reconstruction of '2 tap, R->L Interleaved' in Camera Parameters dialog.	
6	Appl	Fix pulse period and granularity fields so that they cannot be zero in CC Pulse Generator dialog.	
7	Appl	Added 'unity' button to RGB Gain Control dialog.	
8	Appl	Fixed BAUD rate settings not being saved/loaded from CAM file in Terminal dialog.	
9	Appl	Fixed AVI file saving.	
10	SDK	RGB conversion fixed.	
11	SDK	Fixed UART timeout handling and documentation.	
12	SDK	Support backward compatibility with FrameLink application ( i.e. FLeX card, driver and library work with FL application ).	
13	SDK	Support forward compatibility with FrameLink card ( i.e. FL card and driver work with FLeX SDK/application ).	
14	SDK	Fix RAW data unpacking and tap reconstruction bugs.	
15	SDK	Made CAM file more readable by adding more formatting.	
16	Drv	DMA Buffer request cancellation fixed.	
17	Drv	New DMA Buffers management implemented.	
18	Drv	Safely Remove for Vista fixed.	
19	Drv	Digital Signature added to Vista driver.	

<b>Firmware – 0.1.0.12</b>	<b>Changes from version 0.1.0.9</b>
1	Fixed problem where UART baud rate change took too long causing potential character loss following a BAUD rate change.
2	Fixed problem where the number of “clocks/line” reported in the Auto-Learn dialog would periodically report zero if the camera provides some lines with an LVAL of zero length during the frame.
3	Fixed the Remote Upgrade function to recover from an aborted programming cycle.