The Scripter



Camera Update procedure

Important:

Please be aware that Software and Firmware are the heart of all devices. Errors that occur due to wrong upload-procedures or wrong software can sensitively damage your equipment; so if you do not feel comfortable or in case you prefer to have the update done by our field service on site, please get in touch with our local Grass Valley Service engineer who will be ready to assist you.

http://www.grassvalley.com/support/contact/broadcast

Overview:

- 1: What is the LDK Scripter ?
- 2: What hardware tools do I need ?
- 3: How to Install the Scripter ?
- 4: How to Setup the Scripter ? Config_IO
 - Downloadspeed
 - Download Method
 - Help
- 5: How to download (Step by Step)?
- 6: Known issues.
- 7: RS232 cable pinning.

Conditions:

- * Windows based OS (admin rights needed)
- * Network connection (Switch + Cables)
- * RS 232 Null modem Cable (see chapter 8)
- * Service Dongle or USB RS232 adaptor.
- * Scripter, Package and Tools (Last versions) (ask local 1st line GV Service.)



1: What is LDK Scripter ?

The Scripter tool is used for downloading packages to the LDK/LDX products. On the camera head (LDK series) you find a RS232 connector. (not available on LDX) On Basestation and Controls MCP / OCP a network connection is used.

With the additionally available GV service dongle also USB to RS232 or JTag is possible. For higher download speed a JTag connector is located on the 3G Triax Transmission board from Basestation, Adapter and Conversion box.

The Scripter program is needed to make the connection to RS232, UTP and JTag.

This program will check the package in the LDK/LDX system and if needed you can start the upgrade with the latest package.

As the systems are running with various combinations of FW and SW versions we create "Packages" for all our recent products.

A "Package" is a validated and tested official release and should always be installed completely. There are still some products that are not using a package for software and firmware updates:

SD/LDK4502/OCP400/MCP400/LDK6000

In this case there are individual software and firmware files available.

It is also possible to check the status from each LDK/LDX item with the Collect Data script (excel overview) To check the different versions of the LDK8000 it recommended to use the Package advisor script.

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5.2: Settings.

- 1: Select Download Method. (Ethernet or RS232 or usb-jtag-iic) (chapter 4a)
- 2: if RS232 mode is used, check your Config_IO settings. (chapter 4b)
- 3: Select Package from you computer.

5.3: Scripts.

There are 6 types of scripts that will run with the scripter.

- 1: Script for status check (create excel file). (Collect xxx Data.tsc)
- 2: Script for checking camara version (Package advisor) (only needed with LDK4000/8000)
- 3: Script when no package is used. (SD/ LDK4502 / OCP400 / MCP 400 / LDK 6000).
- 4: Script for update Package. (Package_LDKxxx_3922407xxx_0x.exe) (unpack by execute)
- 5: Script for diagnostics. Only with LCD VF (CollectVFStatusInfo LDK530x.tsc)
 - (CollectVFOperationLogData_LDK530x.tsc)

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6: Script to change internal setting. (Service only)

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7: Script for License upgrade. (Sales)

Download procedure

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5.3.1: Script status check. (Collect Data Script) (MS Excel necessary !)

For LDX only there is also the LDX Inside tool available (Collect Data is include in this tool)

- The following scripts collect the information on the Software, Firmware and Package status of the device and the installed boards and write it into an Excel file.
- These collect scripts are available.
 - CollectBasestationData
 - CollectCameraAdaptorData
 - CollectCameraData
 - CollectConversionboxData
 - CollectNoTubeVFData
 - CollectNoTubeVFlog

LDK3000



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PID code	0237JE				
Board Info		1			
Board Name	HW 12nc	HW status	HW PID	Firm-/Software Info	Package Info
Data Camera	3922 406 5297.1	24	01H5C5	12NC: 3922 407 5299.1 Date: 10-08-2009 Status: 12.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
Sync Monitoring	3922 406 5437.1	17	01JBFG	12NC: 3922 407 5314.1 Date: 16-04-2009 Status: 08.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
Pulse Pattern Generator	3922 406 5301.1	17	01L8CQ	12NC: 3922 407 5452.1 Date: 25-09-2008 Status: 02.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
Digital Video Processing	3922 406 5470.1	23	0273R5	12NC: 3922 407 5429.1 Date: 30-07-2009 Status: 03.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
DVP Nios	3922 406 5470.1	23	0273R5	12NC: 3922 407 5298.1 Date: 21-07-2009 Status: 05.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
Right Connector Board	3922 406 5310.1	17	01LF0F	12NC: 3922 407 3826.1 Date: 08-08-2007 Status: 05.00	12NC: 3922 407 5676.1 Date: 11-08-2009 Status: 03.00
Filter Driver Board	3922 406 5114.1	17	0229J4	12NC: 3922 407 4312.1 Date: 15-07-2005 Status: 05.00	12NC: 3922 407 5676.1 Date: 24-02-2010 Status: 07.00
Data collected on					
Date	22/03/2010				
Time	08:42:43				

It is strongly advised to Collect all data for each session.

a: Before upgrade: Store the Data you will get: "LDK8000_xxxx(SN)" but add "_1" at the end. It will create an Excel-Sheet with all Camera Data with the Name "LDK8000_xxx (SN)_1.xls"

b: After upgrade: Do the same as in a: but add "_2"

After this you will have 2 files for each system part. "LDK8000_xxx (SN)_1.xls" before the update and "LDK8000_xxx (SN)_2.xls" after the update.

5.3.2: Script for Checking Camera version (LDK8000 Package advisor)

This Script is a Powerful tool, to determine which Package is suitable for your LDK4000-LDK8000 Series Camerahead.

		Ldkscripter LDK80005erie version : v2.0 date : 03-0	s Package Adv) 12-2011 OK	isor -	Progress status General Checks General Checks Checks Checks Checks Checks	к8000_39224075673 ОК Лоум 100% done		Page 5	of 8
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The Scripter



5.3.3: Script for individual file Update.

There are still some products that are not updated with the use of a package. In this case there is a script available for each individual file. (SD Camera / LDK4502 / OCP400 / MCP 400 / LDK 6000). Here you need to connect via RS232 or Network and run the .tsc file out of the folder.

See example for OCP400:

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Organize 👻 📸 Open	•	Burn New folder		811 • 🔳	0
🔆 Favorites	^	Name	Date modified	 Туре 	
〕 Downloads		"By 392240738101_165_001_S22_01.tsc	9-3-2012 10:27	TSC File	
🜉 Desktop 蕸 Recent Places		BT3810BK.122_01	9-3-2012 10:31	122_01 File	
🧊 Libraries	-	< III			•

5.3.4: Script for Package Update.

Package_LDK3000_392240756621_04 After downloading the Package you need to File Edit View Favorites Tools Help unpack the .exe file and place it in a folder 😋 Back 🔹 💿 🕤 🏂 🔎 Search 👘 Folders 🎹 on your computer. 🗸 🔁 Go Address 🛅 D:\LDK Software\LDK 3000\Package_LDK3000_392240756621_04 Folders Name Running a package script can be done 🞯 Desktop by double-clicking a file with extension "load_package_3922407xxxx1.tsc". The installation program (Scripter) creates 聞load_package_392240756621.tsc 聞package_content_392240756621.tsc an association with the LDKscripter. Package_form_392240756621.dfm Simply follow the instructions presented to you. package_globals.tsc
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 LDK Softwar PCB_392240654671_Sensor_Lib.tsc 🗅 LDK 3000
 Image: Coll and Package_LDK3000_392240756621_03 PCB 392240654781 DVPNiosI Lib.tsc PCB_392240654991_DataCam_Lib.tsc Ldkscripter This Script will load the following SW/FW Package into your camera: 12NC : 3922 407 5662.1 Date : 06-10-2009 Status : 03.00 OK lOpci_io io_pci_io v1.16 COM1, 115200 Baud X === CONNECT TO DOWNLOAD APPLICATION === first SWITCH OFF the camera, then press OK, and SWITCH ON the camera ОК Cancel lOpci_io CONNECTING Cancel Continued Update Package next page. Page 6 of 8 Download procedure 101010 101010 101010 110011 110011 100011 110011 100011 111000 110011 100011 111000 100011 111000 grass valley

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6: Known issues

7a. Known issue with 3rd Gen. Triax without using GV service dongle.



When trying to download Packages to 3rd Gen. Triax systems WITHOUT a GV Service Dongle available this error message could appear. Press OK. The update continues via RS232 or Network. But it takes at least 35min till 2 hours for this update. With the Dongle (JTag) connected to the transmission board from Adaptor, Basestation or Conversionbox it take only 3 min.

7: RS232 connector pinning (null modem)

Computer		Name	Camera
1		not used	1
3	*	TXD	2
2	*	RXD	3
6		DSR	4
5	*	SG	5
4		DTR	6
8		CTS	7
7		RTS	8
9		RI	9



* Standard cable. Don't use: LDK Scripter functions will not work.



Download procedure

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