Installation Guide:

1.) This document contains a list of all software and firmware install applications that are available on this disk along with a matrix of what software installation is related to a given hardware item.

2.) Each directory may contain an INSTALLATION_INSTRUCTIONS text file. It is highly recommended that these files be read and instructions contained within be followed closely.

3.) Be sure to retain the AUXILARY DATA disks contained with Lumistar shipments. This disk may contain special software add-ons, license files, and special documentation sources.

4.) If issues are encountered, contact Lumistar customer service for assistance.

Hardware Model	Associated Software Install	Version	Operating System(s)
LS-11-F	LS11F	1.41	Win7 x86 Win7 x64 Win10 x64
LS-11-M	LS11M3	2.20	Win7 x86 Win7 x64 Win10 x64
LS-22-SE	LDPS_8x	8.93 8.95 8.951	Win7 x86 Win7 x64 Win10 x64
LS-25-D	LDPS_8x	8.93 8.95 8.951	Win7 x86 Win7 x64 Win10 x64
LS-25-P	LDPS_8x	8.93 8.95 8.951	Win7 x86 Win7 x64 Win10 x64
	LDPS_10x	2.19 2.19 2.19	Win7 x86 Win7 x64 Win10 x64
	LRRS_3x (Generation 1)	1.8101 1.82 1.8101	Win7 x86 Win7 x64 Win10 x64
	LRRS_3x (Generation 2)	3.04 3.04 3.04	Win7 x86 Win7 x64 Win10 x64
	Lrs3_xL	2.02	Win10 x64
LS-27-B	Install_LS27B_Software.bat	20200713 20200217	Win7 x86 Win7 x64 Win10 x64
LS-27-D	LDPS_8x	8.93 8.95 8.951	Win7 x86 Win7 x64 Win10 x64
	LRRS_3x (Generation 1)	1.8101 1.82 1.8101	Win7 x86 Win7 x64 Win10 x64
	LRRS_3x (Generation 2)	3.04 3.04 3.04	Win7 x86 Win7 x64 Win10 x64
	Lrs_3xL	2.02	Win10 x64
LS-28-DRS	LRRS_3x (Generation 1)	1.8101 1.82 1.8101	Win7 x86 Win7 x64 Win10 x64
	LRRS_3x (Generation 2)	3.04 3.04 3.04	Win7 x86 Win7 x64 Win10 x64
	Lrs_3xL	2.02	Win10 x64
	LS28_App	1.12.07	Win7 x86 Win7 x84 Win8.1 x86

LS-28-DRSM			Win8.1 x64
			Win10 x64
			Server 2008
			Server 2012
			Server 2015
	LDPS_10x	2.1902	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-35-R	LRRS_3x (Generation 1)	1.8101	Win7 x86
		1.82	Win7 x64
		1.8101	Win10 x64
	LRRS_3x (Generation 2)	3.04	Win7 x86
		3.04	Win7 x64
		3.04	Win10 x64
LS-40-DB	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-4x-P	LS42P (Legacy)	3.478	Win7 x86
		3.475	Win7 x64
	LS-40-P/LS-45-P	1.1	Win7 x86
	LS-40-P/LS-45-P	1.1	Win7 x64
	LS-40-P/LS-45-P	1.1	Win10 x64
LS-44-QBS	LS-44QBS	1.49	Win7 x86
LS-45-B	Install_LS45B_Software.bat	20171213	Win7 x86
			Win7 x64
			Win10 x64
LS-50-cP	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-50-D	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-50-DD	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-50-E	LDPS_8x	8.93	Win7 x86
		8.93	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-50-EE	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64

		2.19	Win10 x64
LS-68-M/LS-48-M	DPE_App	1.02.15	Win7 x86
		1.02.15	Win7 x64
		1.02.15	Win10 x64
	LPDS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-70-S (LS70P1)	LS-7x DynaSim	1.44	Win7 x86
		1.45	Win7 x64
		1.4704	Win10 x64
	TDynaSim	3.64	Win7 x86
		3.64	Win7 x64
		3.64	Win10 x64
LS-70-S	LS-7x DynaSim	1.44	Win7 x86
		1.45	Win7 x64
		1.4704	Win10 x64
	TDynaSim	3.64	Win7 x86
		3.64	Win7 x64
		3.64	Win10 x64
LS-70-SS	LS-7x DynaSim	1.44	Win7 x86
		1.45	Win7 x64
		1.4704	Win10 x64
	TDynaSim	3.64	Win7 x86
		3.64	Win7 x64
		3.64	Win10 x64
LS-71-P	LDPS_8x	8.93	Win7 x86
		8.95	Win7 x64
		8.951	Win10 x64
	LDPS_10x	2.19	Win7 x86
		2.19	Win7 x64
		2.19	Win10 x64
LS-16-C	LS16C	1.01.02	Win7 x86
		1.01.02	Win7 x64
		1.01.02	Win10 x64
LS-18-M	LS18M	1.01.03	Win7 x86
		1.01.03	Win7 x64
		1.01.03	Win10 x64
Driver Tools	LDPS_10, LRRS_3x Generation 2, TDynaSim	8.1	Win7 x86
		8.1	Win7 x64
		8.1	Win10 x64
LS-28M/LS68M/LS27M	LumistarDevice (In Utilities Driectory)	20230426	All Win Platforms

Firmware Update Table:

HW Model	Firmware Description	Firmware Title Prefix	Firmware Title Suffix (Version)
LS-28M	DSP1 Firmware	LS28M1_DSP1_	20230330
DSP Firmware	DSP2 Firmware	LS28M1_DSP2_	20230330
LS-28M	PSK Firmware	LS28M_3PSK_RCVR	230220
FPGA Firmware (K410)	SS-PCMFM and Bit Sync	LS28M_3BS_RCVR	230220
(SN's above 8000)	MS-PCMFM/GMSK	LS28M_3PCMFM_RCVR	230221
	MH-CPM	LS28M_3MHCPM_RCVR	230220
	PSK_LDPC Rate 1/2	LS28M_1PSK_LDPC12_RCVR	230221
	PSK_LDPC Rate 2/3	LS28M_1PSK_LDPC23_RCVR	230221
	PSK_LDPC Rate 4/5	LS28M_1PSK_LDPC34_RCVR	230221
	Tape Up/Dn Converter	LS28M_3TUD_RCVR	220405
LS-28M	PSK Firmware	LS28M_3PSK_RCVR	230221
FPGA Firmware	SS-PCMFM and Bit Sync	LS28M_3BS_RCVR	230221

(K325) (SN's below 8000)	MS-PCMFM/GMSK	LS28M_3PCMFM_RCVR	230222
	MH-CPM	LS28M_3MHCPM_RCVR	230222
	PSK_LDPC Rate 1/2	LS28M_1PSK_LDPC12_RCVR	230222
	PSK_LDPC Rate 2/3	LS28M_1PSK_LDPC23_RCVR	230222
	PSK_LDPC Rate 4/5	LS28M_1PSK_LDPC45_RCVR	230221
LS-68M/48M	DSP1 Firmware	LS68M1_DSP2_xxxxxxxx_FLASH	20230125
DSP Firmware	DSP2 Firmware	LS68M1_DSP2_xxxxxxxx_FLASH	20230125
LS-68M/48M FPGA Firmware	2 Bit Sync/3 Decom	LS68M_2BS_3DEC_0SIM	230220
	1 Bit Sync/2 Decom/1 SuperSim 0 Bit Sync/1 Decom/2 SuperSim	LS68M_1BS_2DEC_1SIM LS68M_0BS_1DEC_2SIM	230220
LS-27B	DSP Firmware	Consult Factory	Consult Factory
DSP Firmware		Consult Factory	Consult Factory
		Consult Factory	Consult Factory
LS-27M DSP Firmware	DSP Firmware	LS27M1_20230302	20230302