

# LIAS Specifications

V 5.2

		Gel Documentation & Analysis		Chemiluminescence		Chemifluorescence & Chemiluminescence	
Model	Cat#	Xlite 30 R AG-LA030	Xlite 200 R AG-LA200R	ChemLite 200 F AG-LA200CL	ChemLite 400 F AG-LA400CL	ChemX 200 FA / F AG-LA200F / A	ChemX 400 FA AG-LA400FA

## I. Image Capturing Unit

Camera Set	CCD Sensor	Kodak KAI-0340	Kodak KAI-2020	Kodak KAI-2020	Kodak KAI-4021	Kodak KAI-2020	Kodak KAI-4021
	Pixel Size (µm, VxH)	7.4 x 7.4	7.4 x 7.4	7.4 x 7.4	7.4 x 7.4	7.4 x 7.4	7.4 x 7.4
	Dynamic Range	0 to 3.6 OD	0 to 3.6 OD	0 to 3.6 OD	0 to 4.2 OD	0 to 3.6 OD	0 to 4.2 OD
	Exposure Time	Up to 120 sec	Up to 120 sec	Up to 120 min	Up to 120 min	Up to 120 min	Up to 120 min
	Cooling Method	None	None	Thermoelectric	Thermoelectric	Thermoelectric	Thermoelectric
	Cooling Temperature	None	None	-35°C (Relative)	-35°C (Relative)	-35°C (Relative)	-35°C (Relative)
	Capture Resolution	VGA; 640x480	2.0M; 1600x1200	2.0M; 1600x1200	4.0M; 2048x2048	2.0M; 1600x1200	4.0M; 2048x2048
	Bit Depth	12 bit	12 bit	12 bit	14 bit	12 bit	14 bit
PC Interface	IEEE 1394(FireWire)	IEEE 1394(FireWire)	IEEE 1394(FireWire)	IEEE 1394(FireWire)	IEEE 1394(FireWire)	IEEE 1394(FireWire)	
Lens Set	Lens Type	6 X Zoom Lens	6 X Zoom Lens	Fixed Focus Lens	Fixed Focus Lens	Fixed Focus Lens	Fixed Focus Lens
	Motor-driven Lens Operation	X	X	X	X	V / X	V
	Auto Focus	X	X	X	X	X	V
	Lens Mount	C-mount	C-mount	C-mount	C-mount	C-mount	C-mount

## II. Intelligent Darkroom

Filter Set	Filter Turret	Motor-Driven, 6 position	Motor-Driven, 6 position	Motor-Driven, 6 position	Motor-Driven, 6 position	Motor-Driven, 6 position	Motor-Driven, 6 position
	Emission Filter (One standard set; Five for optional order)	595 nm (EtBr Stain)	595nm (EtBr Stain)	595nm (EtBr Stain)	595nm (EtBr Stain)	595nm (EtBr Stain)	595nm (EtBr Stain)
Control Set	Display Panel	Build-in 7" TFT LCD	Build-in 7" TFT LCD	Build-in 7" TFT LCD & PC	Build-in 7" TFT LCD & PC	Build-in 7" TFT LCD & PC	Build-in 7" TFT LCD & PC
	Standalone Control	Front Control Pad	Front Control Pad	Front Control Pad	Front Control Pad	Front Control Pad	Front Control Pad
	PC Control Interface	Optional	Optional	V (Windows XP)	V (Windows XP)	V (Windows XP)	V (Windows XP)
	Image Storage (movable focus platform (MFD))	USB Storage	USB Storage	USB Storage & PC	USB Storage & PC	USB Storage & PC	USB Storage & PC
Lighting Set	UV Transilluminator (26cm X 21cm)	V	V	V	V	V	V
	White Back Light	V	V	Optional	Optional	Optional	Optional
	Epi White Light	V	V	V	V	V	V
	Epi Blue Light	X	X	X	X	Optional	Optional
	Epi Green Light	X	X	X	X	Optional	Optional
	Epi Red Light	X	X	X	X	Optional	Optional

## III. Software

System Control & Image Capture	Avegene Xview	Optional	Optional	V	V	V	V
Analysis	1D or 2D Analysis	Optional	Optional	Optional	Optional	Optional	Optional

## IV. General Info

Power	100V-240V	100V-240V	100V-240V	100V-240V	100V-240V	100V-240V
Dimension (WxHxD)	620x1040x415mm	620x1040x415mm	620x1040x415mm	620x1040x415mm	620x1040x415mm	620x1040x415mm
Weight	50Kg	50Kg	60Kg	60Kg	65Kg	65Kg
Certification	UL,CE	UL,CE	UL,CE	UL,CE	UL,CE	UL,CE

\* Avegene Life Science reserves the right to change the specification without prior notification

\*\* PC Set is additional purchase unit

## Optional Parts & Accessories

### 1. Transilluminator

Item	Cat. No	Product Name	Remark
1	AG-T2126BS	UV Transilluminator I (305nm, 26x21cm filter size, hi/low intensity)	For Xlite Series
2	AG-T2126AS	UV Transilluminator II (365m, 26x21cm filter size, hi/low intensity)	For Xlite Series
3	AG-T2126D	Dual UV Transilluminator (305nm / 365nm, 26x21cm filter size, hi/low intensity)	For Xlite Series
4	AG-T2822W	White Back Light (28x22cm)	For Xlite Series
5	AG-T2126BS-2	UV Transilluminator I (305nm, 26x21cm filter size, hi/low intensity)	For ChemLite & ChemX Series
6	AG-T2126AS-2	UV Transilluminator II (365m, 26x21cm filter size, hi/low intensity)	For ChemLite & ChemX Series
7	AG-T2126D-2	Dual UV Transilluminator (305nm / 365nm, 26x21cm filter size, hi/low intensity)	For ChemLite & ChemX Series
8	AG-T2126W	White Light Transilluminator	For ChemLite & ChemX Series

### 2. Epi Illumination

Item	Cat. No	Product Name	Remark
1	AG-EPI001	Epi White Illumination	For all models
2	AG-EPI002	Epi Red Light	For ChemX Series
3	AG-EPI003	Epi Green Light	For ChemX Series
4	AG-EPI004	Epi Blue Light	For ChemX Series

### 3. Lens

Item	Cat. No	Product Name	Remark
1	AG-LEN001	F1.2, C-mount, 6X Zoom lens	For Xlite 30R
2	AG-LEN002	F1.2, C-mount, 6X Zoom lens	For Xlite 200R
3	AG-LEN003	F0.95 C-mount Fixed-Focus Lens	For ChemLite & ChemX Series

### 4. Filter

Item	Cat. No	Product Name	Remark
1	AG-FLT510BP	Fluorescent Filter 510BP	ECFP, EGFP
2	AG-FLT515LP	Fluorescent Filter 515LP	Attophos, FAM, FITC, SYBR Gold, SYBR Green I / II, SYPRO Orange, SYPRO Ruby, SYPRO Tangerine
3	AG-FLT575BP	Fluorescent Filter 575BP	Alexa 514 532 546 555, Cy3, HEX, HNPP, Pro-Q Diamond, R-phycoerythrin, TAMRA, Tetramethylrhodamine
4	AG-FLT595BP	Fluorescent Filter 595BP	EtBr
5	AG-FLT605BP	Fluorescent Filter 605BP	5-ROX, Alexa 568 594, BODIPY 576/589, Deep Purple, NED, RFP, Rhodamine Red, SYPRO Red
6	AG-FLT670LP	Fluorescent Filter 670LP	Alexa 633 635 647 660 680, BODIPY 650/665, Cy5, DDAO phosphate, DiD, TOTO-3

### 5. Camera

Item	Cat. No	Product Name	Remark
1	AG-MR0030	0.34M Pixels Scientific Grade CCD Camera	For Xlite 30R
2	AG-MR0200	2M Pixels Scientific Grade CCD Camera	For Xlite 200R
3	AG-MR1200	2M Pixels Scientific Grade Cooled CCD Camera	For ChemLight 200 & ChemX 200
4	AG-MR1400	4M Pixels Scientific Grade Cooled CCD Camera	For ChemLite 400 & ChemX 400

### 6. Printer

Item	Cat. No	Product Name	Remark
1	AG-PRI001	Avegene High Quality Thermal Printer, 325 dpi, 256 gray levels	
2	AG-PRI002	Thermal Printer Paper	

### 7. Software

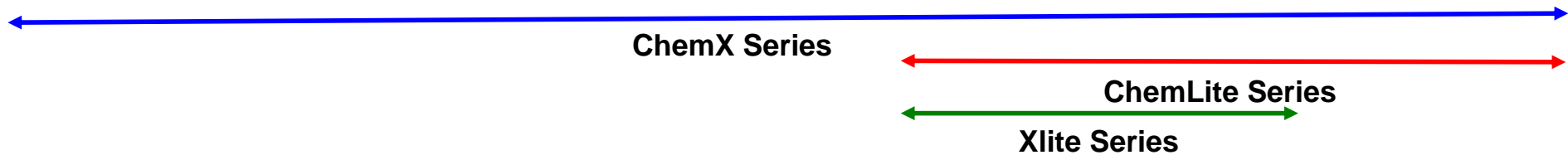
Item	Cat. No	Product Name	Remark
1	NL-TL100	Nonlinear Totallab 100	1D Analysis
2	NL-TL120	Nonlinear Totallab 120	1D Analysis
3	NL-TL120DM	Nonlinear Totallab 120 DM	1D Analysis
4	AG-GV001	Avegene GelVista V1.0	1D Analysis
5	NL-PH2DA	Nonlinear Phoretix 2D Advanced	2D Analysis
6	NL-PG240	Nonlinear Progenesis PG240	2D Analysis

### 8. PC & Related

Item	Cat. No	Product Name	Remark
1	AG-PC001	PC Set	PC + Monitor + Windows XP
2	AG-PC002	Image Capture Interface	IEEE 1394 connecting wire + Avegene Xview Software

## Experimental Method

Fluorescence & Chemifluorescence				Visible Stain	Chemiluminescence
Blue	Green	Red	UV	White	Dark
Attophos ECFP EGFP FAM FITC SYBR Gold SYBR Green I / II SYPRO Orange SYPRO Ruby SYPRO Tangerine	5-ROX Alexa 514 532 546 555 Alexa 568 594 BODIPY 576/589 Cy3 Deep Purple HEX HNPP NED Pro-Q Diamond RFP Rhodamine Red R-phycoerythrin SYPRO Red TAMRA Tetramethylrhodamine	Alexa 633 635 647 660 680 BODIPY 650/665 Cy5 DiD DDAO phosphate TOTO-3	EtBr Fluorescein GFP SYBR Green I SYPRO Orange SYPRO Red SYPRO Ruby Texas Red	ProStain (VisPro) Silver Stain CBB Stain X-Ray Film NBT / BCIP	ECL ECL+ ECL Advance Lumi-Light Plus Renaissance Super Signal Bright-Star CDP-Star CSPD



\* Contact Avegene Technical Support for more experimental applications

Method		Reagent	Lighting	Filter	Iris
Chemiluminescence	Dark	ECL	None	None	F0.95
		ECL+	None	None	F0.95
		ECL Advance	None	None	F0.95
		Lumi-Light Plus	None	None	F0.95
		Renaissance	None	None	F0.95
		Super Signal	None	None	F0.95
		Bright-Star	None	None	F0.95
		CDP-Star	None	None	F0.95
		CSPD	None	None	F0.95
Fluorescence & Chemifluorescence	Blue	Attophos	Blue(460nm EPI)	515LP	F0.95
		ECFP	Blue(460nm EPI)	510BP10	F0.95
		EGFP	Blue(460nm EPI)	510BP10	F0.95
		FAM	Blue(460nm EPI)	515LP	F0.95
		FITC	Blue(460nm EPI)	515LP	F0.95
		SYBR Gold	Blue(460nm EPI)	515LP	F0.95
		SYBR Green I / II	Blue(460nm EPI)	515LP	F0.95
		SYPRO Orange	Blue(460nm EPI)	515LP	F0.95
		SYPRO Ruby	Blue(460nm EPI)	515LP	F0.95
	SYPRO Tangerine	Blue(460nm EPI)	515LP	F0.95	
	Green	5-ROX	Green(520nm EPI)	605BP40	F0.95
		Alexa 514 532 546 555	Green(520nm EPI)	575BP20	F0.95
		Alexa 568 594	Green(520nm EPI)	605BP40	F0.95
		BODIPY 576/589	Green(520nm EPI)	605BP40	F0.95
		Cy3	Green(520nm EPI)	575BP20	F0.95
		Deep Purple	Green(520nm EPI)	605BP40	F0.95
		HEX	Green(520nm EPI)	575BP20	F0.95
		HNPP	Green(520nm EPI)	575BP20	F0.95
		NED	Green(520nm EPI)	605BP40	F0.95
		Pro-Q Diamond	Green(520nm EPI)	575BP20	F0.95
		RFP	Green(520nm EPI)	605BP40	F0.95
		Rhodamine Red	Green(520nm EPI)	605BP40	F0.95
		R-phycoerythrin	Green(520nm EPI)	575BP20	F0.95
		SYPRO Red	Green(520nm EPI)	605BP40	F0.95
	TAMRA	Green(520nm EPI)	575BP20	F0.95	
	Tetramathyrodamine	Green(520nm EPI)	575BP20	F0.95	
	Red	Alexa 633 635 647 660 680	Red(630nm EPI)	670LP	F0.95
BODIPY 650/665		Red(630nm EPI)	670LP	F0.95	
Cy5		Red(630nm EPI)	670LP	F0.95	
DiD		Red(630nm EPI)	670LP	F0.95	
DDAO phosphate		Red(630nm EPI)	670LP	F0.95	
TOTO-3		Red(630nm EPI)	670LP	F0.95	
UV	EtBr	UV (305nm TI)	595BP	F2.8	
Visible Stain	White	ProStain	White (TI)	None	F2.8
		Silver Stain	White (TI)	None	F2.8
		CBB Stain	White (TI)	None	F2.8
		X-Ray Film	White (TI)	None	F2.8
		NBT / BCIP	White (EPI)	None	F2.8

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