X-SIGHT

X-SIGHT CATALOG
Products & Components

X·SIGHT

2000 SERIES
Optical extensometer for a wide range
of material and component testing

Product	Typical sampling Rate [Hz]	Sampling Rate at Full View [Hz]	Interface	Measurement length [mm]			Light	Dimensions [mm]	Weight [kg]	Lens mount
				Class 0.5*	Class 1*	Class 2*				
X-Sight-2101	200	170		80	160	320				
X-Sight-2102	90	43		110	190	380				
X-Sight-2105	175	75		130	260	520				
X-Sight-2106**	200	60	USB 3.0				L200	221×187×80	1.4	C
X-Sight-2109	75	32		220	440	880				
X-Sight-2116	70	23		330	660	1320				
X-Sight-2201	200	170		2×80	2×160	600				
X-Sight-2202	90	43		2×110	360	720				
X-Sight-2205	175	75		2×130	520	1040				
X-Sight-2206**	200	60	USB 3.0				2×L200	221×187×80 per unit	1.4	C
X-Sight-2209	75	32		420	840	1680				
X-Sight-2216	70	23		640	1280	2600				
X-Sight-2301	200	170		3×80	3×160	900				
X-Sight-2302	90	43		3×110	530	1060				
X-Sight-2305	175	75		3×130	760	1500				
X-Sight-2206**	200	60	USB 3.0				3×L200	221×187×80 per unit	1.4	C
X-Sight-2309	75	32		620	1240	2480				
X-Sight-2316	70	23		920	1900	3850				

* Compliant to ISO 9513, ** ASTM focused VE

▸ X-Sight 2000 series comes with industrial camera, lens, monochromatic LED light, USB relay for light controlling, calibration grid, data cable, power cable, power supply, installation medium and HW licence key
▸ Axial software module and one year of TECS included
▸ Multicamera set-ups include the multicamera module

X-SIGHT 21MPX
MPx = 01, 02, 05, 06, 09 and 16

X-SIGHT 22MPX
MPx = 01, 02, 05, 06, 09 and 16

X-SIGHT-23MPX
MPx = 01, 02, 05, 06, 09 and 16

X⊹SIGHT

4000 SERIES

Optical extensometer for a wide range of material and component testing, suitable for extended or high-elongation specimens

Product	Typical sampling Rate [Hz]	Sampling Rate at Full View [Hz]	Interface	Measurement length [mm]			Light	Dimensions [mm]	Weight [kg]	Lens mount
				Class 0.5*	Class 1*	Class 2*				
X-Sight-4101	200	170	USB 3.0	80	160	320	L400	421×187×80	2.5	C
X-Sight-4102	90	43		110	190	380				
X-Sight-4105	175	75		130	260	520				
X-Sight-4109	75	32		220	440	880				
X-Sight-4116	70	23		330	660	1320				
X-Sight-4101-D	200	170	USB 3.0	150 or 2×80	300 or 2×160	600	L400	421×187×80	2.6	C
X-Sight-4102-D	90	43		200 or 2×110	360	720				
X-Sight-4105-D	175	75		240 or 2×130	520	1040				
X-Sight-4109-D	75	32		420	840	1680				
X-Sight-4116-D	70	23		640	1280	2600				
X-Sight-4201	200	170	USB 3.0	2×80	2×160	2×320	2x L400	421×187×80 per unit	2×2.5	C
X-Sight-4202	90	43		2×110	2×190	720				
X-Sight-4205	175	75		2×130	2×260	1040				
X-Sight-4209	75	32		2×220	820	1680				
X-Sight-4216	70	23		2×330	1280	2600				

* Compliant to ISO 9513

▸ X-Sight 4000 series comes with industrial camera, lens, monochromatic LED light, USB relay for light controlling, calibration grid, data cable, power cable, power supply, installation medium and HW licence key
▸ Axial software module and one year of TECS included
▸ Multicamera set-ups include the multicamera module

X-SIGHT-4I{MPX}
MPx = 01, 02, 05, 09 and 16

X-SIGHT-4I{MPX}-D
MPx = 01, 02, 05, 09 and 16

X-SIGHT-42{MPX}
MPx = 01, 02, 05, 09 and 16

✖ SIGHT

4000-3D

Universal stereoscopic video extensometer equipped with two cameras to capture spatial movements and deformations.

Product	Typical sampling Rate [Hz]	Sampling Rate at Full View [Hz]	Measurement length [mm]		Light	Dimensions [mm]	Weight [kg]	Lens mount
			Class 0.5*	Class 1*				
X-Sight-4105-3D	175	75	110	220	L400	421×187×80	2.5	C
X-Sight-4109-3D	75	32	220	440				

* Compliant to ISO 9513

X-SIGHT 4000-3D VE

- ▶ X-Sight 4000–3D VE comes with two industrial cameras, lenses, monochromatic LED light, USB relay for light controlling, calibration grid, data cable, power cable, power supply, installation medium and HW licence key
- ▶ Axial software module and one year of TECS included

X-SIGHT 4I$_{MPX}$-3D
MPx = 05, 09

X-SIGHT

X-SIGHT DIC 2D
DIC measuring system

Product	Resolution [MPx]	Frame rate @ full resolution [Hz]	Interface	Measurement area [mm]		
				Class 0.5	Class 1	Class 2
M5	5.0	75	USB 3.0	130×110	260×220	520×440
M16	16.1	23		330×180	660×360	1320×750
M24	24.5	15		330×285	660×570	1320×1140
M67	67.1	13.8	10GigE	410×410	820×820	1640×1640

X-Sight DIC 2D to 3D Extension kits	description
XS-M5 3D EXTENSTION KIT	X-Sight DIC 3D – M5 upgrade to 3D system
XS-M16 3D EXTENSION KIT	X-Sight DIC 3D – M16 upgrade to 3D system
XS-M24 3D EXTENSION KIT	X-Sight DIC 3D – M24 upgrade to 3D system
XS-M67 3D EXTENSION KIT	X-Sight DIC 3D – M67 upgrade to 3D system

▸ X-Sight DIC 2D system comes with Industrial camera in cooler, lens (optional depending on the particular working distance), 2× Calibration grid, USB 2.0 16-bit AD/DA convertor, 2× LED light and 1× Arm clamp (light holder), Cabling, Power supply, Tripod, HASP key with perpetual license, Installation USB
▸ Full Alpha DIC® software and one year of TECS included
▸ X-Sight DIC 2D system comes conveniently packaged in a practical carrying case, outer dimensions 687×528×366mm.

X-SIGHT DIC 2D
M5-M67

X-SIGHT

X-SIGHT DIC 3D
Stereoscopic DIC measuring system

Product	Resolution [MPx]	Frame rate @ full resolution [Hz]	Interface	Measurement area [mm]		
				Class 0.5	Class 1	Class 2
M5	2×5.0	75	USB 3.0	130×110	260×220	520×440
M16	2×16.1	23		330×180	660×360	1320×750
M24	2×24.5	15		330×285	660×570	1320×1140
M67	2×67.1	13.8	10GigE	410×410	820×820	1640×1640

▶ X-Sight DIC 3D system comes with 2× Industrial camera in cooler, lens, monochromatic spot light, 2× Lens (optional depending on the particular working distance), 2× Calibration grid, USB 2.0 16-bit AD/DA convertor, 4× LED light and 2× Arm clamp (light holder), Cabling, Power supply, Tripod, HASP key with perpetual license, Installation USB
▶ Full Alpha DIC® software and one year of TECS included
▶ X-Sight DIC 3D system comes conveniently packaged in a practical carrying case, outer dimensions 687×528×366mm.

X-SIGHT DIC 3D
M5-M67

X-SIGHT DIC 2D DYNAMIC
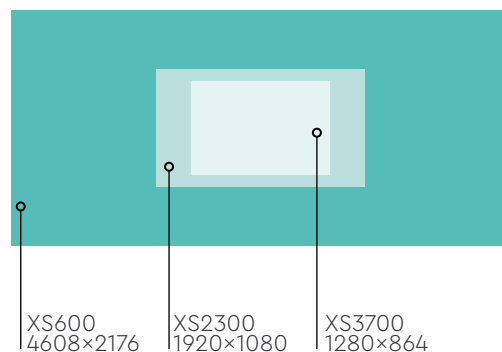
DIC system for dynamic measurements

Product	Resolution [MPx]	Frame Rate @ Full Resolution [Hz]	Interface	Aspect Ratio (W:H)	Measurement Area [mm] @ Class 1	Frame rate @ HD resolution [Hz] *	Frame rate @ VGA resolution [Hz] **	Maximum achievable frame Rate [Hz]
XS3700	1.1	3709		1.48:1	160 × 110	-	6300	10000[1]
XS2300	2	2279	PCIe Gen3 64 Gbit/s	1.78:1	240 × 140	2300	5100	10000[2]
XS600	10	600		2.12:1	530 × 270	1700	3500	10000[3]

*   Corresponding to 1920×1080 pixels.
** Corresponding to 640×480 pixels.
[1,2,3] Achievable by cropping the hight of the image to a 1) 320 px, 2) 240 px, 3) 128 px.

- X-Sight DIC 2D Dynamic system comes with a high-performance camera, a lens, a passive cooling unit, a camera bracket (for bar and tripod head installation), a high-intensity LED light, a tripod with ball head, and a separate tripod for the LED light
- It also includes camera data cables, sync and power cables, a PCIe host adapter, and a USB 2.0 16-bit AD/DA converter
- The system is supplied with two grids, a quad-port USB 3.0 hub, an installation USB, a USB license key, and necessary tools and accessories
- Full Alpha DIC® software and one year of TECS included.

XS600
4608×2176

XS2300
1920×1080

XS3700
1280×864

DIC 2D DYNAMIC

X-SIGHT DIC 3D DYNAMIC
Stereoscopic DIC system
## for dynamic measurements

Product	Resolution [MPx]	Frame Rate @ Full Resolution [Hz]	Interface	Aspect Ratio (W:H)	Measurement Area [mm] @ Class 1	Frame rate @ HD resolution [Hz] *	Frame rate @ VGA resolution [Hz] **	Maximum achievable frame Rate [Hz]
XS3700	2×1.1	3709		1.48:1	160 × 110	-	6300	10000[1]
XS2300	2×2	2279	PCIe Gen3 64 Gbit/s	1.78:1	240 × 140	2300	5100	10000[2]
XS600	2×10	600		2.12:1	530 × 270	1700	3500	10000[3]

*   Corresponding to 1920×1080 pixels.

** Corresponding to 640×480 pixels.

[1,2,3] Achievable by cropping the hight of the image to a 1) 320 px, 2) 240 px, 3) 128 px.

▸ X-Sight DIC 3D Dynamic system comes with two high-performance cameras, lenses, passive cooling units, camera brackets (for bar and tripod head installation), a high-intensity LED light, a tripod with ball head, and a separate tripod for the LED light
▸ It also includes camera data cables, sync and power cables, a PCIe host adapter, and a USB 2.0 16-bit AD/DA converter
▸ The system is supplied with two grids, a 3D carbon fiber mounting bar, a quad-port USB 3.0 hub, an installation USB, a USB license key, and necessary tools and accessories
▸ Full Alpha DIC® software and one year of TECS included

XS600
4608×2176

XS2300
1920×1080

XS3700
1280×864

DIC 3D DYNAMIC

X SIGHT
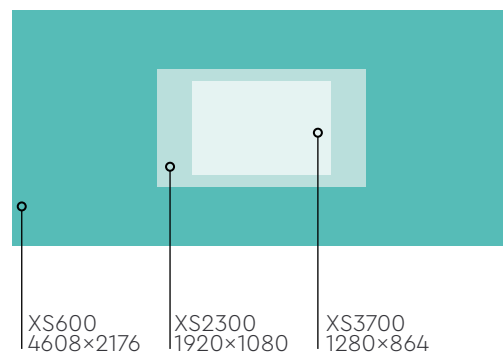
ST-HT
Universal semi-telecentric high-temperature optical extensometer

Product	Resolution [MPx]	Frame rate @ full resolution [Hz]	Interface	Light	Weight [kg]	Lens type
ST-HT	5.0	75	USB 3.0	SLG-N	0.9	Semi-telecentric

WD [mm]	Mag [x]	Field of View [mm]	
		Axial	Trans
1000	0.057	148	124
800	0.072	117	98
600	0.097	87	73
400	0.15	56	47
200	0.323	26	22
140	0.504	17	14

▶ X-Sight ST-HT comes with 5 MPx industrial camera, lens, monochromatic spot light, USB relay for light controlling, calibration grid, data cable, power cable, power supply, installation medium and HW licence key
▶ Axial software module and one year of TECS included

ST-HT

HT

Optical extensometer for high-temperature applications

Product	Resolution [MPx]	Frame rate @ full resolution [Hz]	Interface	Resolution [µm]*	Measurement length [mm]	Working Distance [mm]	Light	Dimensions [mm]	Lens type	Weight [kg]
HT	5.0	75	USB 3.0	<0.5	47	262 ± 1%	SLG-N	248×140×76	Telecentric	1.7

* At room temperature. Resolution at elevated temperature is highly affected by boundary conditions (vibrations, air turbulence).

▶ X-Sight HT comes with 5 MPx industrial camera, lens, monochromatic spot light, USB relay for light controlling, calibration grid, data cable, power cable, power supply, installation medium and HW licence key
▶ Axial software module and one year of TECS included

HT

OPTICAL EXTENSOMETERS

Software modules, Technical Enhancements
& CustomerSupport (TECS) for optical extensometers

SW modules	Description
AX	Basic UI and mandatory Axial Strain Module
TR	Transversal Strain Module
DIC	DIC Area Module with Post-Process
PP	Data Post-Process Module
3D	3D DIC Stereoscopic Module
3DL	3D Stereoscopic functionality for line based probes
3DP	3D planar stereoscopic functionality
3DPL	3D Planar Stereoscopic Functionality for Line Based Probes
TO	Torsion Measurement Module
MC	Multi Camera
DI	Device Input
ITT	Intelligent Tensile Testing (includes ROD line)
LVD	Line Value Distribution
CL	Crack Length
BM	Bridge visualization
RES	Research and development features
SW BOX kit bundle	The X-Sight BOX and License fee for SW-only modules bundle. Applicable once when buy any combination of SW modules. Includes box, Annual TECS USB dongle, 100 mm and 200 mm grid.

TECS*	Description
S-TECS 1 year	Sensor 2D/3D real time measurements only
S-TECS 2 years	Sensor 2D/3D real time measurements only
S-TECS 3 years	Sensor 2D/3D real time measurements only
S-TECS 4 years	Sensor 2D/3D real time measurements only
S-TECS 5 years	Sensor 2D/3D real time measurements only
SP-TECS 1 year	Sensor 2D/3D real time + post process software
SP-TECS 2 year	Sensor 2D/3D real time + post process software
SP-TECS 3 year	Sensor 2D/3D real time + post process software
SP-TECS 4 year	Sensor 2D/3D real time + post process software
SP-TECS 5 year	Sensor 2D/3D real time + post process software

UPDATE only**	
S-UPDATE 1 year	Sensor 2D/3D real time measurements only
S-UPDATE 2 years	Sensor 2D/3D real time measurements only
S-UPDATE 3 years	Sensor 2D/3D real time measurements only
S-UPDATE 4 years	Sensor 2D/3D real time measurements only
S-UPDATE 5 years	Sensor 2D/3D real time measurements only
SP-UPDATE 1 year	Sensor 2D/3D real time + post process software
SP-UPDATE 2 years	Sensor 2D/3D real time + post process software
SP-UPDATE 3 years	Sensor 2D/3D real time + post process software
SP-UPDATE 4 years	Sensor 2D/3D real time + post process software
SP-UPDATE 5 years	Sensor 2D/3D real time + post process software

Additional and optional support	
Customer support	Every started hour of individual customer support
Additional module UPDATE	Discount on UPDATE with additional module order
Additional module TECS	Discount on TECS with additional module order
Custom functionality	Custom functionality SW implementation hourly rate
Services	Custom services

*   The TECS includes the software update and customer support 3 hours per year
** The UPDATE includes only the software update without the customer support hours

XSIGHT

DIC SOFTWARE
Digital Image Correlation software,
Technical Enhancements & Customer Support (TECS)

Digital Image Correlation software	description
XS-DIC2D/3D-F SW perpetual*	FULL DIC 2D/3D perpetual software
XS-DIC2D/3D-FPP SW perpetual*	FULL DIC 2D/3D perpetual software POSTPROCESS only
XS-DIC2D/3D-L SW perpetual*	Line based probes DIC 2D/3D perpetual software
XS-DIC2D/3D-LPP SW perpetual*	Line based probes (DIC Area functionality excluded) DIC 2D/3D perpetual software POSTPROCESS only
XS-DIC2D/3D EDU class 20 **	Educational pack of 20 perpetual licenses, only available for academic users which already own any commercial or academic product

TECS and subscription	description
Annual TECS	Technical Enhancements and software update for one year, securing new updates,functionalities and Customer Support***
Annual UPDATE	Software update for one year, securing new updates and functionalities
EDU class 20 update 1Y	One year of EDU class 20 Technical Enhancement only
EDU class 20 update 3Y	Three years of EDU class 20 Technical Enhancement only
EDU class 20 update 5Y	Five years of EDU class 20 Technical Enhancement only
Annual subscription	One-year subscription
Triennial subscription	Three-year subscription
Academic subscription	One-year subscription for research purposes
Additional USB post dongle	Additional post license for posprocessing

*   This product comes in a box including HASP dongle, USB install drive and M100 & M200 calibration grids.
**   This product comes in a box including HASP dongle and USB install drive.
*** Customer support includes 4/8 hours per year for 2D/3D systems.

XSIGHT

LENSES

Product	Focal length [mm]	Magnification	Sensor format	Minimal focusing distance [mm]	minimum f number	Dimensions [mm]	Weight [g]	Filter size	Mount
B08	8	N/A	1/1.8"	100	2.0	Ø26,8 × 25	30	M25.5 × 0.5	
B12	12	N/A	1/1.8"	100	2.0	Ø26,8 × 20	30	M25.5 × 0.5	
BL1236	12–36	N/A	2/3"	50 (wide) 200 (tele)	2.8	Ø41.6×53	105	M35.5×0.5	
BL12	12	N/A	1/1.2"	100	2.0	Ø29×56	65	M27×0.5	
BL16	16	N/A	1/1.2"	100	2.0	Ø29×48.7	50	M27×0.5	
BL25	25	N/A	1/1.2"	100	1.8	Ø29×54.5	55	M27×0.5	
BL35	35	N/A	1/1.2"	200	2.1	Ø29×56.6	55	M27×0.5	
S08	8	N/A	2/3"	100	2.8	Ø32×35.5	60	M30.5×0.5	
S12	12	N/A	2/3"	100	2.8	Ø29×43.5	60	M27×0.5	
S16	16	N/A	2/3"	250	2.8	Ø29×29	40	M27×0.5	
S25	25	N/A	2/3"	200	2.8	Ø29×31.5	40	M27×0.5	
S35	35	N/A	2/3"	250	2.8	Ø29×38.5	50	M27×0.5	
S50	50	N/A	2/3"	300	2.8	Ø29×56	65	M27×0.5	C
S75	75	N/A	2/3"	400	2.8	Ø36×75	100	M34×0.5	
H08	8	N/A	1.2"	200	2.8	Ø 57.7×53.2	160	Adapter required	
H12	12	N/A	1.2"	300	2.8	Ø42.0×36.1	100	M40.5×0.5	
H16	16	N/A	1.2"	300	2.8	Ø39.5×35.2	90	M34×0.5	
H25	25	N/A	1.2"	300	2.8	Ø39.5×34	80	M34×0.5	
H35	35	N/A	1.2"	300	2.8	Ø39.5×45.2	100	M34×0.5	
H50	50	N/A	1.2"	500	2.8	Ø39.5×45.2	110	M34×0.5	
XH12			4/3"						
XH16			4/3"						
XH25		upon request	4/3"			upon request			
XH35			4/3"						
XH50			4/3"						

SEMI-TELECENTRIC								
	Magnification	Sensor format	Working distance [mm]	Depth of Field [mm]	Effective f number	Dimensions [mm]	Weight [g]	Filter size
ST-55	0.057x – 0.5x	2/3"	140–1000	N/A	3–22	Ø59×93.1	400	M46×0.75
TELECENTRIC								
T25	0.5x	2/3"	65	3	9.5	Ø32×94.5	100	N/A
T25L	0.5x	2/3"	110	3	9.5	Ø34×146	145	N/A
HT	0.17x	1/2"	287	±3	3–13	Ø56×177	324	M52×0.75

X·SIGHT

LENSES

LENS

B08

B12

BL1236

BL12

BL16

BL25

BL35

S08

T25

XH

S12

S16

S25

S35

S50

S75

T25L

ST55

H08

H12

H16

H25

H35

H50

HT

XSIGHT

MISC
Cables & consumables

Product	Description
DONGLE	HW license key with installation USB drive in a storage box
CS-U-5m	Compact System USB 3.0 cable – 4.6m
VE-U-3m	VE USB 3.0 camera cable – 3m
VE-CAB-STR	2000 series VE standard cable strand – CAM, RELAY, 24V in nylon shield
SERIAL-5m	Serial Data Cable (RS232 – crossed) – 5m; (1–1, 2–3, 3–2, 4–6, 5–5, 6–4, 7–8, 8–7, 9–9, S-S)
IAC-25pin	Instron Analog Cable 25pin – 3m
STAMP	Speckle Patter Stamp with Paint Cushion
AL2O3	Al2O3 powder for high temp marking – 100g

MISC

VE-U-3m

IAC-25pin

VE-CAB-STR

CS-U-5m

SERIAL-5m

DONGLE

XSIGHT

CAMERAS

| Product	Resolution [MPx]	Pixels	Color	Sensor format	Lens series	Pixel Size [µm]	Frame rate @ full resolution [Hz]	Interface	Dimensions without lens mount	Shutter	Lens mount
M1	1.3	1280 × 1024		1/3"	S	3.45	170		29 × 29 × 29	Global	
M2	2.3	1920 × 1200		1/1.2"	BL	5.86	42		29 × 29 × 29	Global	
M5(D)	5.0	2448 × 2048		2/3"	S	3.45	75		29 × 29 × 29	Global	
M6	6.3	3072 × 2048		1/3"	S	2.4	59	USB 3.0	29 × 29 × 29	Rolling with global reset	C
M9	8.9	4096 × 2160	Mono	1"	H	3.45	32		29 × 29 × 29	Global	
M16	16.1	5328 × 3040		1.1"	H	2.74	23		36.3 × 29 × 29	Global	
M24	24.5	5328 × 4608		1.2"	H	2.74	15		36.3 × 29 × 29	Global	
M67	67.1	8192 × 8192		APS-C		2.5	13.8	10GigE	41 × 59 × 59	Global	M42
X3700	1.1	1280 × 864		4/3"	XH	13.7	3709	PCIe Gen3 64 Gbit/s	60 × 70 × 55	Global	
X2300	2.1	1920 × 1080		4/3"	XH	10	2279	PCIe Gen3 64 Gbit/s	60 × 70 × 55	Global	C
X600	10.0	4608 × 2174		4/3"	XH	10	600	PCIe Gen3 64 Gbit/s	60 × 70 × 55	Global	

Supported Camera Manufacturers: FLIR, AVT, Basler, Optris, Ximea, Daheng, IDS and DynaColor

CAMERAS

M1 – M24

M67

X3700, X2300

x600

XSIGHT
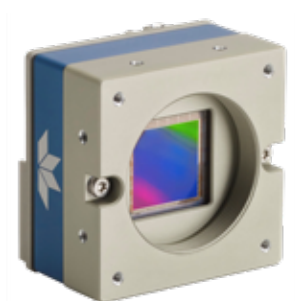
LIGHTS

Product	use	Color	Active Area [mm]	Dimensions [mm]	Power [W]	Voltage [V]	Recommended current [mA]	Weight [g]	Connector	Angle [°]
L100	BAR LIGHT	blue	100×10	110×18×20	3	24	150	90	M8–4pinM	
L200		blue	200×10	210×18×20	6	24	300	150	M8–4pinM	
L200YO		yellow	200×10	210×18×20	6	24	300	150	M8–4pinM	
L300		blue	300×10	310×18×20	9	24	450	230	M8–4pinM	
L400		blue	400×10	410×18×20	11	24	600	300	M8–4pinM	
L500		blue	500×10	510×18×20	14	24	750	370	M8–4pinM	
SLG-N	SPOT LIGHT	green		50×46×46	20	24	600	200	M12–5pinM	13
SLG-W		green		50×46×46	20	24	600	200	M12–5pinM	26
SLY-N		yellow		50×46×46	20	24	600	200	M12–5pinM	13
BLED		white (3200 – 5600K)	150×80	158×80×10	0–10	N/A	N/A	500	USB-C	N/A
BL300		blue	300×100		12	24			M8–4pinM	N/A
ML200		Warm White to Cool Daylight (2700K – 6500K)		127×67.5×225	320	100/240		2200		N/A

LIGHTS
L100–L500

SLG-N, SLG-W, SLY-N

ML200

BLED, BL300

X SIGHT

MOUNTS

Product	Maximum load [kg]	Weight [kg]	Maximum height [cm]	Minimum height [cm]	Transport height [cm]	Note
TRIPOD	14	1.9	165.6	39	49.5	Central rod allows horizontal positioning, includes travel bag

	Height [cm]	Maximum load [kg]	Weight [kg]	Type	Fast-mounting pad
T-3-HEAD	13	5	1.2	Gear	Yes
T-B-HEAD	10	8	0.3	Ball	Yes

	Height [cm]	Maximum load [kg]	Weight [g]	Ends
MARM	25	3	275	1/4" screw
MARM-HD	53	3	1090	5/8" stud with 1/4" (top) and 3/8" (bottom) screw

	Description
COB	Customized arm designed from aluminium extruded profiles to mount the X-Sight system to a UTM
CAMCOOL	Passive camera cooler suitable for cameras M1-M24; allows horizontal and vertical, left and right camera positioning

MOUNTS

CAMCOOL
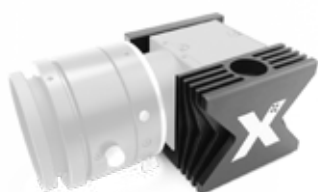
MARM

T-3-HEAD, T-B-HEAD

TRIPOD

XSIGHT

DEVICES & PC COMPONENTS

PULSEGEN

product	Interface	Number of channels	Output signal	Output logic [V]	Sampling rate [kS/s]	Input trigger logic [V]	Electrical connection
PG-2CH	USB 2.0	2	A/B quadrature	0–5	80	0–5	Screw wire terminal
PG-4CH	USB 2.0	4	A/B quadrature	0–5	80	0–5	Screw wire terminal

RELAY

product	Interface	Number of channels	Number of outputs	Input connector	Output connectors	Voltage range [V]	Electrical connection
USB RELAY	USB 2.0	2	2 per channel	M8–3pinM	M8–4pinF	0–30	Screw wire terminal

SYNCHRON

product	Interface	Number of outputs	Analog input connector	Output connectors	Input range [V]	Output logic [V]	Input resolution	Sampling rate [kS/s]	Weight [g]
SYNCHRON	USB 2.0	2	BNC	M8–3pinF	±10, ±5, ±2.5, ±1.25, 0–10, 0–5, 0–2.5, 0–1.25	0–5	16bit	50	600

product	Interface	Number of outputs	Output connectors	Output logic [V]	Signal range [m]	Weight [g]
WIRELESS SYNC	USB 2.0	2	BNC	0–5	200	600

DEVICES & PC COMPONENTS

RELAY

WIRELESS SYNC
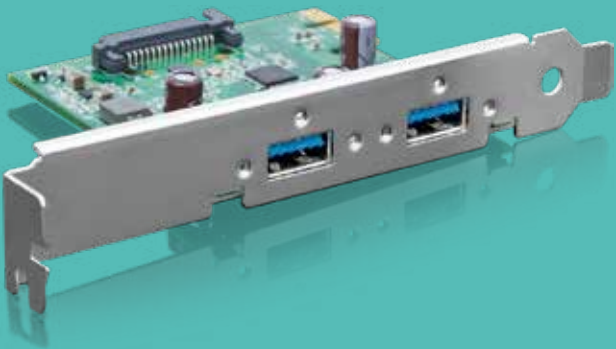

PG-2CH, PG-4CH

SYNCHRON

DEVICES & PC COMPONENTS

AD-DA CONVERTERS

converters	Interface	Analog Input	Input range [V]	Input res.	Analog Output	Output range [V]	Output range [mA]	Output res.	Accuracy	Sampling rate [kS/s]	Electrical connection
AD16-U-LC*	USB 2.0	8 SE / 4 DIFF	±10	16bit	2 Channels	±10	N/A	16bit	±1.8 LSB input /±4 LSB output	50 input / 5 output	Screw wire terminal

* Other AD-DA converters available upon request

INTERFACE CARDS

product	Type	Interface	Number of Channels	Max data throuput [MB/s]	Externa power connector
PCE-U3–2	USB 3.0	PCIe 1x	2	380	SATA
PCE-U3–4	USB 3.0	PCIe 4x	4	1520	SATA, MOLEX

product	Interface
RS-USB	USB 2.0

DEVICES & PC COMPONENTS

AD16-U-LC

RS-USB

PCE-U3–2, PCE-U3–4

GRIDS
Grids for calibration
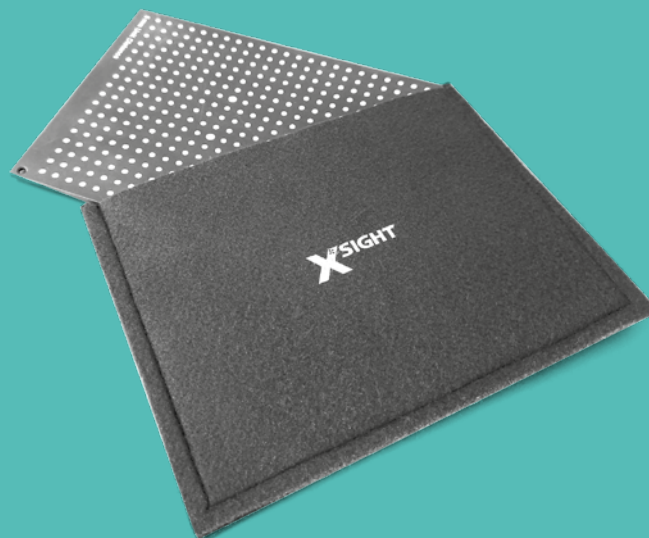
Product	Dimensions [mm]	Unit distance [mm]	Thickness [mm]	Origins
M007-MG	15×13	0.125	1	MONO
M009-MG	15×13	0.25		
M012-MG	22×19	0.5		
M025-MG	34×29	1		
M050	65×45	2 or 3		
M100	110×65	5	3	
M200	200×150	8		
M400W	450×350	24		
M600	600×450	24		
M800	790×430	36		
J100	110×65	3		DUAL
J200	200×150	5		
J600	650×150	8		
J800	800×200	23		
D400	400×150	8		MONO/ DUAL (double-sided)

GRIDS
M050–J800

MICROGRIDS
M007-MG – M025-MG

XSIGHT