

	Universal type		Fast type	For metal	High resolution	Adapted size for replacements		Precision-Sensor (2M for metal)		
Series	SINGLE PIECE UNITS - Compact Series									
Base Model	CS	CSmicro	CSmicro 2W	CSmicro 2W	CSmicro 2W	CSmicro	CX	CXHS	CSlaser	CSlaser
Type	LT	LT10/LT02	LT15	LT10F	2M	hs	LT22	hs LT15	LT	2M
Classification / special features	Small one-piece sensor with LED alarm/aiming support	Micro-sized sensor with additional alarm output	Micro-sized two-wire LT sensor	Micro-sized two-wire LT sensor with fast response time	Micro-sized two-wire 2M sensor for metal applications	Micro-sized two-wire LT sensor with high thermal sensitivity	Two-wire LT sensor for rugged applications	Two-wire LT sensor with high thermal sensitivity	Two-wire LT sensor with high optical resolution and laser sighting	Two-wire 2M-sensor with high optical resolution, laser sighting for high temp. metal applications
Detector	Thermopile	Thermopile	Thermopile	Thermopile	InGaAs	Thermopile	Thermopile	Thermopile	Thermopile	InGaAs
Sensing head exchangeable	-	-	-	-	-	-	-	-	-	-
Head cable shortening	■	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■ [after electronics]	■	■
Thread (sensing head)	M12x1	M12x1	M12x1	M12x1	M12x1	M12x1	1,5"-20 UNF-2B	1,5"-20 UNF-2B	M48x1,5	M48x1,5
Spectral range	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,6 µm	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,6 µm
Temperature ranges	-20...350°C	-20...350°C	-30...900°C	-30...900°C	385...1600°C	-20...150°C	-30...900°C	-20...150°C	-50...975°C	385...1600°C
Temperature resolution	0,2°C	0,2°C	0,1°C	0,2°C	0,1°C	0,025°C [>20°C]	0,1°C	0,025°C [>20°C]	0,1°C	0,1°C
Optical resolution	10:1	10:1/ 2:1	15:1	10:1	75:1	15:1	22:1	15:1	50:1	300:1
Option: CF lens	■	■	■	■	■	■	■	■	-	-
Smallest spot (CF optics/ add. CF lens)	1,2mm@ 10mm	1,2mm@ 10mm	0,8mm@ 10mm	1,2mm@ 10mm	1,5mm@ 110mm	0,8mm@ 10mm	0,6mm@ 10mm	0,8mm@ 10mm	1,4mm@ 70mm	0,5mm@ 150mm
Smallest spot (SF optics)	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	24mm@ 1200mm	3,7mm@ 1100mm
Sighting	LED aiming	-	-	-	-	-	-	-	-	-
Response time (90%)	30ms	30ms	150ms	30ms	10ms	150ms	150ms	150ms	150ms	10ms
Accuracy	±1,5°C or ±1,5%	±1,5°C or ±1,5%	±1,5°C or ±1%	±1,5°C or ±1%	±(0,3% T _{meas} +2°C)	±1°C or ±1%	±1,4°C or ±1%	±1°C or ±1%	±1°C or ±1%	±(0,3% T _{meas} +2°C)
Outputs analog: 0-20mA/ 4-20mA/ 0-5V/ 0-10V/ t/c (K/J)	- / - / ■ / ■ / -	- / - / ■ / ■ / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -	- / ■ / - / - / -
Second analog output	-	-	-	-	-	-	-	-	-	-
Interfaces: USB/ RS232/ RS485/ Profibus/ Ethernet	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -	■ / - / - / - / -
Signal processing: Peak/ Valley/ AVG/ Advanced hold	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■	■ / ■ / ■ / ■
T _{amb} Head min.	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
T _{amb} Head max.	75°C	120°C	85°C	120°C	125°C	75°C	75°C	75°C	85°C	85°C
T _{amb} Electronics max.	75°C	75°C	75°C	75°C	75°C	75°C	75°C	75°C	85°C	85°C
Functional inputs/ number	■ / 1	■ / 1	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
Extern emissivity adjustment	■	■	-	-	-	-	-	-	-	-
External ambient control	■	■	-	-	-	-	-	-	-	-
Trigger input for reset of hold	■	■	-	-	-	-	-	-	-	-
Digital I/O pins	-	-	-	-	-	-	-	-	-	-
Simultan analog & digital output	-	-	■	■	■	■	■	■	■	■
Alarm output alternatively to analog output	■	■	■	■	■	■	■	■	■	■
Additional alarm output	-	■	■	■	■	■	■	■	■	■
Power supply	5-7/ 12-28 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC	5-30 VDC
Standard cable length	1m	1m	1m	1m	1m	4m	8m	8m	3m	3m
Cable length options	3/ 8/ 15 m	-	-	-	-	-	-	-	8m/ 15m	8m/ 15m
Base price one unit EUR	145.--	195.--	285.--	285.--	395.--	560.--	450.--	560.--	610.--	680.--

	Universal type			Fast type	For open	For metal			For glas	For plastic
Series	TWO PIECE UNITS - Compact Series									
Base Model	CT	CT	CT	CTfast	CTHot	CT	CT	CT	CT	CT
Type	LT02	LT15	LT22	LT10F	LT02H/ LT10H	1M	2M	3M	G5	P7
Classification / special features	Universal LT sensor with programming keys and display	Universal LT sensor with programming keys and display	Universal LT sensor with programming keys and display	Universal LT sensor with fast response time	Universal LT sensor for very hot environments	Universal 1M sensor for high temp. metal applications	Universal 2M sensor for high temp. metal applications	Universal 3M sensor for low and medium temp. metal applications	Universal G5 sensor for glass temperature measurements	Universal P7 sensor for thin plastic film temperature measurements
Detector	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile	Si	InGaAs	extended InGaAs	Thermopile	Thermopile
Sensing head exchangeable	■	■	■	-	■	■ [+CTlaser 1M]	■ [+CTlaser 2M]	■ [+CTlaser 3M]	■	-
Head cable shortening	■ [-0,1 K/m]	■ [-0,1 K/m]	■ [-0,1 K/m]	■ [max. 3m]	■ [-0,1 K/m]	■ [max. 3m]	■ [max. 3m]	■	■ [-0,1 K/m]	-
Thread (sensing head)	M12x1	M12x1	M12x1	M12x1	M18x1	M12x1	M12x1	M12x1	M12x1	M18x1
Spectral range	8-14 µm	8-14 µm	8-14 µm	8-14 µm	8-14 µm	1,0 µm	1,6 µm	2,3 µm	5,0 µm	7,9 µm
Temperature ranges	-50...600°C	-50...600°C	-50...975°C	-50...975 °C	-40...975 °C	L: 485...1050°C H: 650...1800°C	L: 250...800°C H: 385...1600°C	L: 50...400°C H: 100...600°C H1: 150...900°C H2: 200...1200°C H3: 400...1800°C	L: 100...1200°C H: 250...1650°C	0...500°C
Temperature resolution	0,1°C	0,1°C	0,1°C	0,5°C	0,25°C	0,1°C	0,1°C	0,1°C	L:0,1°C/ H:0,2°C	0,5°C
Optical resolution	2:1	15:1	22:1	10:1	2:1/ 10:1	L:40:1/ H:75:1	L:40:1/ H:75:1	L:22:1/ H:33:1/ H1-H3: 75:1	L:10:1/ H:20:1	10:1
Option: CF lens	■	■	■	■	■	■	■	■	-	-
Smallest spot (CF optics/ add. CF lens)	2,5mm@ 23mm	0,8mm@ 10mm	0,6mm@ 10mm	1,2mm@ 10mm	1,2mm@ 10mm	1,5mm@ 110mm	1,5mm@ 110mm	3,4mm@ 110mm	-	-
Smallest spot (SF optics)	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm	7mm
Sighting	-	-	-	-	-	-	-	-	-	-
Response time (90%)	150 ms	150 ms	150 ms	9ms	100ms	1ms	1ms	1ms	L:120ms/ H:80ms	150ms
Accuracy	±1°C or ±1%	±1°C or ±1%	±1°C or ±1%	±2°C or ±1%	±1,5°C or ±1%	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±2°C or ±1%	±1,5°C or ±1%
Outputs analog: 0-20mA/ 4-20mA/ 0-5V/ 0-10V/ t/c (KJ)	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
Second analog output	■	■	■	■	■	-	-	-	■	■
Interfaces: USB/ RS232/ RS485/ Profibus/ Ethernet	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
Signal processing: Peak/ Valley/ AVG/ Advanced hold	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
T _{amb} Head min.	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
T _{amb} Head max.	130°C	180°C	180°C	120°C	250°C	100°C	125°C	85°C	85°C	85°C
T _{amb} Electronics max.	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C
Functional inputs/ number	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3
Extern emissivity adjustment	■	■	■	■	■	■	■	■	■	■
External ambient control	■	■	■	■	■	■	■	■	■	■
Trigger input for reset of hold	■	■	■	■	■	■	■	■	■	■
Digital I/O pins	-	-	-	-	-	-	-	-	-	-
Simultan analog & digital out	■	■	■	■	■	■	■	■	■	■
Alarm out altern to analog out	■	■	■	■	■	■	■	■	■	■
Additional alarm output	■	■	■	■	■	■	■	■	■	■
Power supply	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC
Standard cable length	1m	1m	1m	1m	3m	3m	3m	3m	3m	3m
Cable length options	3/ 8/ 15m	3/ 8/ 15m	3/ 8/ 15m	3/ 8/ 15m	8/ 15m	8/ 15m	8/ 15m	-	8/ 15m	8/ 15m

Base price one unit EUR	225.--	280.--	295.--	370.--	590.--	460.--	460.--	630.--	460.--	605.--
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	For laser-application	Universal type	Fast type	For metal			For flame	For CO ₂ -flame	For CO ₂ -flame	For glas	For plastic	Moving / small obj.
Series	TWO PIECE UNITS - High Optical Precision Series											
Base Model	CT XL	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTlaser	CTratio
Type	3M	LT	LTF	1M	2M	3M	MT	F2	F6	G5	P7	1M
Classification / special features	Advanced 3M sensor for laser processing applications	Advanced LT sensor with laser sighting, programming keys and display	Advanced LT sensor with laser sighting and fast response time	Advanced 1M sensor with laser sighting for high temp. metal applications	Advanced 2M sensor with laser sighting for high temp. metal applications	Advanced 3M sensor with laser sighting for low/ medium temp. metal applications	Advanced MT sensor with laser sighting for measurement through flames	Advanced F2 sensor with laser sighting for measurement of CO ₂ flame gas temperatures	Advanced F6 sensor with laser sighting for measurement of CO flame gas temperatures	Advanced G5 sensor with laser sighting for glass temperature measurements	Advanced P7 sensor with laser sighting for thin plastic film temperature measurement	Advanced ratio pyrometer for measurement of small, obscured or moving objects
Detector	extended InGaAs	Thermopile	Thermopile	Si	InGaAs	extended InGaAs	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile	Si-Sandwich
Sensing head exchangeable	-	■	■	■ [+CT 1M]	■ [+CT 2M]	■ [+CT 3M]	■	■	■	■	■	-
Head cable shortening	-	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	■ [max. 6m]	-
Thread (sensing head)	M30x1	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M48x1,5	M25x1
Spectral range	2,3 µm	8-14 µm	8-14 µm	1,0 µm	1,6 µm	2,3 µm	3,9 µm	4,24 µm	4,64 µm	5 µm	7,9 µm	0,7-1,1 µm
Temperature ranges	H: 100...600°C H1: 150...900°C H2: 200...1200°C H3: 400...1800°C	-40...975°C	-40...975°C	L: 485...1050°C H: 650...1800°C	L: 250...800°C H: 385...1600°C	L: 50...400°C H: 100...600°C H1: 150...900°C H2: 200...1200°C H3: 400...1800°C	200...1400°C	200...1400°C	200...1400°C	L: 100...1200°C H: 250...1650°C	0...500°C	700...1800°C
Temperature resolution	0,1°C	0,1°C	0,5°C	0,1°C	0,1°C	0,1°C	0,1°C	0,1°C	0,1°C	L: 0,1°C/ H: 0,2°C	0,5°C	0,1°C (>900°C)
Optical resolution	H: 100:1 H1-H3: 300:1	75:1	50:1	L: 150:1/ H: 300:1	L: 150:1/ H: 300:1	L: 60:1/ H: 100:1 H1-H3: 300:1	45:1	45:1	45:1	L: 45:1/ H: 70:1	45:1	up to 60:1 (CF) up to 80:1 (SF)
Option: CF lens	-	-	-	-	-	-	-	-	-	-	-	-
Smallest spot CF optics	0,7mm@ 70mm	0,9mm@ 70mm	1,4mm@ 70mm	0,5mm@ 150mm	0,5mm@ 150mm	0,7mm@ 70mm	1,6mm@ 70mm	1,6mm@ 70mm	1,6mm@ 70mm	1mm@ 70mm	1,6mm@ 70mm	1,3mm@ 65mm
Smallest spot SF optics	36mm@3600mm	16mm@1200mm	24mm@1200mm	3,7mm@1100mm	3,7mm@1100mm	11mm@1100mm	27mm@1200mm	27mm@1200mm	27mm@1200mm	17mm@1200mm	27mm@1200mm	3,0mm@ 250mm
Sighting	-	double laser	double laser	double laser	double laser	double laser	double laser	double laser	double laser	double laser	double laser	laser
Response time (90%)	1ms	120ms	9ms	1ms	1ms	1ms	120ms	120ms	120ms	L:120ms/ H:80ms	120ms	5ms
Accuracy	±(0,3% T _{meas} +2°C)	±1°C or ±1%	±1,5°C or ±1,5%	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±1°C or ±1%	±1°C or ±1%	±1°C or ±1%	±1°C or ±1%	±1,5°C or ±1%	±(0,5% T _{meas} +1°C)
Outputs analog: 0-20mA/ 4-20mA/ 0-5V/ 0-10V/ t/c (KJ)	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■/-
Second analog output	-	■	■	-	-	-	■	■	■	■	■	-
Interfaces: USB/ RS232/ RS485/ Profibus/ Ethernet	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
Signal processing: Peak/ Valley/ AVG/ Advanced hold	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■	■/■/■/■
T _{amb} Head min.	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C
T _{amb} Head max.	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	250°C
T _{amb} Electronics max.	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C	85°C
Functional inputs/ number	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	■/3	-/-
Extern emissivity adjustment	■	■	■	■	■	■	■	■	■	■	■	-
External ambient control	■	■	■	■	■	■	■	■	■	■	■	-
Trigger input for reset of hold	■	■	■	■	■	■	■	■	■	■	■	■ (via I/O pins)
Digital I/O pins	-	-	-	-	-	-	-	-	-	-	-	■/2
Simultan analog & digital out	■	■	■	■	■	■	■	■	■	■	■	■
Alarm out altern to analog out	■	■	■	■	■	■	■	■	■	■	■	■
Additional alarm output	■	■	■	■	■	■	■	■	■	■	■	■ (via I/O pins)
Power supply	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC	8-36 VDC
Standard cable length	3m	3m	3m	3m	3m	3m	3m	3m	3m	3m	3m	2m
Cable length options		8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	8/ 15m	3/ 6/ 10/ 22m
Base price one unit EUR	880.--	690.--	765.--	760.--	760.--	960.--	to request	to request	to request	785.--	to request	1'950.--



	Universal type		For metal		Universal type		
Series	PORTABLE UNITS						
Base Model	LS	P20	P20	P20	MS	MSPlus	MSPro
Type		LT	1M	2M			
Classification/ special features	Advanced IR thermometer with crosshair laser, USB interface, software, switchable optics	IR thermometer with single laser and scope sighting for demanding applications	IR thermometer with double laser and scope sighting for high temp. metal applications	IR thermometer with double laser and scope sighting for high temp. metal applications	Smart infrared thermometer with USB interface	Smart infrared thermometer with USB interface, alarm features, software	Smart infrared thermometer with USB interface, data logger, alarm, contact probe, software
Detector	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile	Thermopile
Spectral range	8-14 µm	8-14 µm	1 µm	1,6 µm	8-14 µm	8-14 µm	8-14 µm
Temperature ranges	-35...900°C	0...1300°C	650...1800°C	385...1600°C	-32...420°C	-32...530°C	-32...760°C
Temperature resolution	0,1°C	1°C	1°C	1°C	0,2°C	0,1°C	0,1°C
Optical resolution	75:1	120:1	300:1	300:1	20:1	20:1	40:1
Switchable optics	■	-	-	-	-	-	-
Smallest spot (CF optics)	1mm@ 62mm	-	-	-	-	-	-
Smallest spot (SF optics)	16mm@1200mm	100mm@12m	12mm@3,6m	12mm@3,6m	13mm up to 140mm	13mm up to 140mm	13mm up to 260mm
Sighting	cross hair laser	single laser	double laser	double laser	single laser	single laser	single laser
Response time (90%)	150ms	300ms	100ms	100ms	300ms	300ms	300ms
Accuracy	±0,75°C or ±0,75%	±2°C or ±1%	±(0,3% T _{meas} +2°C)	±(0,3% T _{meas} +2°C)	±1°C or ±1%	±1°C or ±1%	±1°C or ±1%
PC interface	USB	USB	USB	USB	USB	USB	USB
Software	■	■	■	■	■	■	■
Probe connection (t/c)	■	-	-	-	-	-	■
T _{amb.} min.	0°C	0°C	0°C	0°C	0°C	0°C	0°C
T _{amb.} max.	50°C	50°C	50°C	50°C	50°C	50°C	50°C
MAX/ MIN	■	■	■	■	■	■	■
HOLD	■	■	■	■	■	■	■
HIGH/ LOW-alarm	■	■	■	■	-	■	■
Data logger/ capacity	■	■	■	■	-	-	■
Emissivity/ Gain	0,100...1,100	0,100...1,000	0,100...1,000	0,100...1,000	0,95 fixed	0,100...1,100	0,100...1,100
Tripod mount	■	■	■	■	■	■	■
Pouch	■	-	-	-	-	■	■
Hard case	■	■	■	■	-	-	-
Power supply	2xAA battery/ USB	NiMH rechargeable batteries/ USB	NiMH rechargeable batteries/ USB	NiMH rechargeable batteries/ USB	9V battery/ USB	9V battery/ USB	9V battery/ USB
Base price one unit EUR	595.--	1'300.--	1'750.--	1'750.--	89.--	125.--	249.--

Compact-industrial infrared camera for control and analytics
incl. fast IR-video-recording, multizone-control and line-scanning

	High speed-/ analysis-/ history-functions	
Series	INFRARED CAMERAS	
Base Model	PI	PI
Type	Standard Package	Thermal Analysis Kit
Classification/ special features	Fast infrared USB video camera with 100 Hz frame rate, one lens, software package	Fast infrared USB video camera with 100 Hz frame rate, 3 lenses, software package
Detector	FPA, uncooled	FPA, uncooled
Optical resolution	160x120 pixel	160x120 pixel
Spectral range	7,5-13 µm	7,5-13 µm
Temperature ranges	-20...900°C	-20...900°C
Temperature resolution	80 mK	80 mK
Frame rate	100 Hz	100 Hz
Switchable lenses	■	■
Lenses (FOV)	31° x 23° or 9° x 7° or 64° x 48°	31° x 23° and 9° x 7° and 64° x 48°
Accuracy	±2°C or ±2%	±2°C or ±2%
PC interface	USB 2.0	USB 2.0
Software	■	■
USB cable included	■ [1m]	■ [1m/ 10m]
T _{amb.} min.	0°C	0°C
T _{amb.} max.	50°C	50°C
Calibration certificate	optional	■
Emissivity/ Gain	0,100...1,100	0,100...1,000
Tripod mount	■	■
Tripod included	■ [table tripod]	■ [20-62 cm height]
max. cable length	100 m [ICRON]	100 m [ICRON]
Power supply	via USB 2.0	via USB 2.0
Base price one unit EUR	4'250.--	7'600.--

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