



	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.--

nbn Elektronik AG
 Birmensdorferstrasse 30
 CH-8142 Uitikon
 Tel. +41 (0)44 404 34 34
 Fax +41 (0)44 493 50 32
 info@nbn-elektronik.ch
 www.nbn-elektronik.ch

