



# WORKSWELL BB200

## HIGHLY PERFORMANCE BLACK BODY

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# Datasheet

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**Release date:** 25<sup>th</sup> November 2020

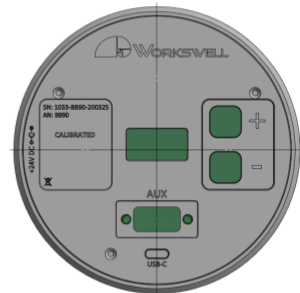
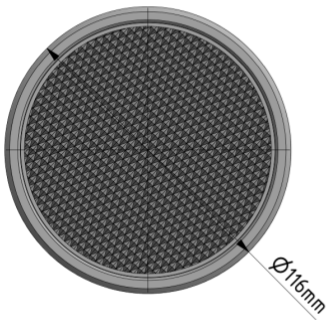
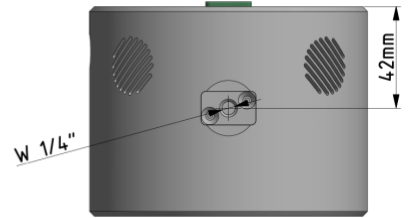
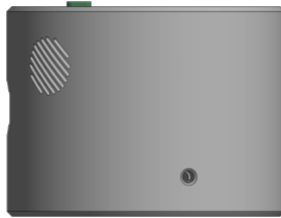
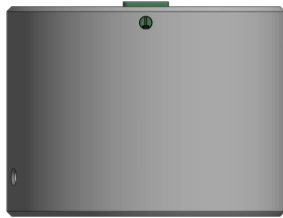
**Revision Number:** 201125

# BB200 technical specification

BB200 Key features description	
Continuous temperature settings of BB200	30 °C – 200 °C (86 °F to 392 °F) with 0.1 °C (°F) single step
Big measurement area	100mm stabilized diameter area with pyramid shapes for increasing stability of emission and decreasing the reflective effects
Outstanding stability	Temperature stability of the central area better than: $\pm 0.05$ °C / hour at 40°C set-value ( $\pm 0.09$ °F / hour at 104 °F set-value) $\pm 0.06$ °C / hour at 100°C set-value ( $\pm 0.11$ °F / hour at 212 °F set-value) $\pm 0.07$ °C / hour at 150°C set-value ( $\pm 0.13$ °F / hour at 302 °F set-value)
BB200 technical specification	
Surface emissivity	0.95 $\pm$ 0.005 for LWIR spectrum
Temperature range	30 °C to 200 °C in continuous steps by 0.1 °C (86 °F to 392 °F by 0.1 °F) <i>(the lowest set-value must be higher about 5 °C (9 °F) from ambient temperature)</i>
Aperture diameter	100mm
Long-term time stability	Better than $\pm 0.08\%$ (Precise PID regulation with 16 single thermal elements, measured/checked by certified external PT100 probe)
Space thermal non-uniformity	$\leq 0,3$ °C (0.5 °F) (temperature dispersion)
Control interface	RS485 control serial interface (optional)
Display	OLED Display: real-time temperature measurement, set-value, visualization
Temperature memory	Set temperature value can be saved to the memory and automatically loaded when BB200 connected to power supply, memory function available
LED signalization	LED signalization for different modes (warming, stabilization, cooling, electronics overheating)
Temperature units	Celsius and Fahrenheit (user configurable)
Power supply, weight & dimensions	
Input supply voltage	24 VDC, Coaxial 2 x 6.4 mm, outer shell – GND, power supply adapter 110/230 VAC included in the package
Power consumption (avg.)	24 W (up to 100°C temp. range), 96W (up to 200°C temp. range)
Weight	< 1 200 grams without the tripod (tripod holder included in the package)
Dimensions (Diameter, Depth)	117 mm x 88 mm (without aluminium stand or cabling)
Mounting holes	1 x 1/4-20 UNC thread
Housing material	Special Teflon body with aluminum parts
Environmental	
Operating temperature range	10 °C to +30 °C (50 °F to 86 °F)
Storage temperature range	-30 °C to +60 °C (-22 °F to 140 °F)
Relative humidity	Non condensing conditions
In the package	Black body, calibration certificate, ball adapter, power supply, transport case



# BB200 drawings



# Contact information

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