![Cellbox — THE LIVE CELL SHIPPER logo]

TECHNICAL DATASHEET
Cellbox Ground 2.0
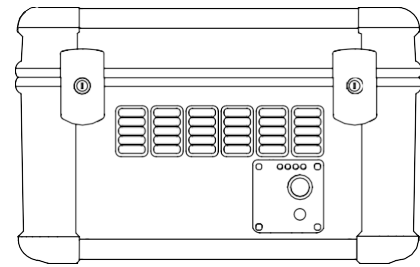
DIMENSION + WEIGHT

Incubation chamber (L x W x H)	155 mm x 200 mm x 135 mm (6.10" x 7.87" x 5.31")
Overall exterior (L x W x H)	535 mm x 380 mm x 340 mm (21.0" x 15.0" x 13.4")
Cellbox exterior case	ABS plastic
Net weight	18 kg (40.0 lbs)
Cellbox carton overpack (L x W x H)	670 mm x 490 mm x 470 mm (26.4" x 19.3" x 18.5")
Packed weight	24 kg (53.0 lbs)

ELECTRICAL DATA

Electrical supply of the power adapter	100-240 V AC, 50/60 Hz; 1.4 A max
Electrical supply of the Cellbox	20V DC; 6.0 A; 120 W max
Battery specifications	4 x standard battery packs (4S2P),14.4 V, 6900 mAh/99.4 Wh, rechargeable with supplied poweradapter
Main power plug	International plugs EU, CH, UK,US, JP, AU
DC plug	2.5mm x 5.5mm x 11mm, C+, tuning fork type
Mains insolation rating	Residual current operated circuit-breaker type A required

APPLICATION + PERFORMANCE DATA

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Application	Portable CO_2 incubator for the temporary storage and transport of live/fresh cells and tissue cultures. Indoor and outdoor use.
Ambient temperature limitation	The ambient temperature needs to be 3°C lower than the set temperature. The maximum ambient temperature for a 38°C set temperature would therefore be 35°C
Controlled inner temperature range	28°C - 38°C; @0.1°C increments
Controlled inner temperature accuracy	± 0.2°C
Controlled inner temperature uniformity	± 0.1°C
Controlled temperature holding reference (@20°C ambient temperature)	Without Styrofoam overpack & carton: 32 hours In Styrofoam overpack & carton: 48 hours
Controlled CO_2 concentration range	0% - 18%; @0.1% increments
Controlled CO_2 concentration accuracy	± 4% rel. @CO_2 conc. ≥5% ± 0.2% abs. @CO_2 conc. ≤5%
CO_2 source	Disposable CO_2 cartridge
CO_2 holding reference	Disposable CO_2 cartridge maintains 5% CO_2 environment for 72 hours
Pressure sensor range	10 to 1200 hPa
Pressure sensor resolution	0.065 hPa
Pressure sensor accuracy	± 1.5 hPa (@25°C & 750 hPa)
Ambient temperature sensor range	-40°C to +85°C
Ambient temperature sensor resolution	< 0.01°C
Ambient temperature sensor accuracy	± 0.8°C
Tilt sensor range	± 90° (w/o movement) in X, Y
Tilt sensor resolution	1°
Tilt sensor accuracy	± 3°
Accelerometer sensor range	± 19.6 m/s^2
Accelerometer sensor resolution	0.000598 m/s^2
Accelerometer sensor accuracy	± 0.392 m/s^2
Vibration sensor range	0 - 65535/min
Vibration sensor resolution	1/min
Vibration sensor accuracy	± n.D./min

TRANSPORT + PACKAGING

Intended for transport by	Road, Rail, Sea
Transport classification	UN3481, lithium-ion batteries contained in equipment
Transport packing instruction	An overpack is recommended in accordance with the regulations for ground transport (ADR)
Transport label	UN3481 lithium battery label; relevant label if loaded with compliant biological material; CO_2 as conditioner label if loaded with CO_2 cartridge
Packaging instructions	PI967 Section II

ENVIRONMENTAL CONDITIONS

Air pressure range	70 kPa-105 kPa
Environmental temperature range	0°C to 40°C
Recommended operation temperature	20°C to 30°C
Relative humidity	max. 80% (no condensation)
Pollution Degree	2

CONTROLLER + CONNECTIVITY DATA

Power switch	External
Battery status indicator	LED lights above power switch & via LCD digital display
Touchscreen interface	LCD digital display
Data indication	Real-time display of log time, actual internal temperature, set internal temperature, actual internal CO_2 concentration, set CO_2 concentration, Remaining CO_2 level in cartridge, battery level, UTC and local time
Data logging	Real-time display of log time, actual internal temperature, set internal temperature, actual internal CO_2 concentration, set CO_2 concentration, Remaining CO_2 level in cartridge, battery level, UTC and local time, ambient pressure, ambient temperature, tilt, vibration, acceleration
Software licenses	CBS 21 CFR Part 11 Data Security Software CBS Research Software
Connectivity	Bluetooth BLE 4.2 with manual on/off mode
Frequency band	2.4GHz (2400 - 2483,5 MHz)
Transmission power	max. +4 dBm
Cellbox 2.0 App	via iOS/Android App for excel-file data export
Controller type	Digital microprocessor
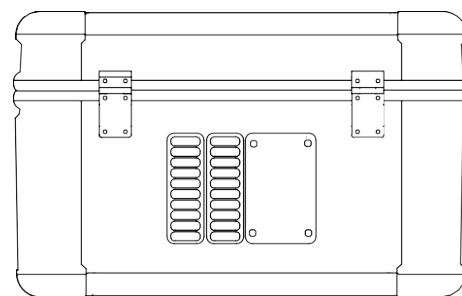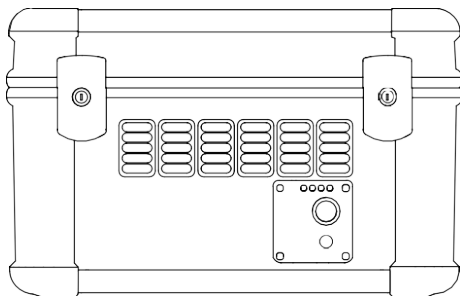
For further information
please refer to
the Technical Manual.

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