

## Incub8

### Multiwell-MEA-System for Use in an Incubator

#### Technical Specifications

General Characteristics	
Operating temperature	10 °C - 50 °C / 50 °F - 122 °F
Storage temperature	0 °C - 50 °C / 32 °F - 122 °F
Relative humidity	10 % to 95 %, non-condensing
Pollution degree	1
Overvoltage category	II
Headstage	
Well plate contacting unit	manual
Dimensions	200 mm x 160 mm x 28 mm (w/o connector)
Weight	1000 g
Integrated Amplifier	
Number of analog recording channels	288
Data resolution	24 bit
DC - Input voltage range	± 70 mV
Bandwidth	0.1 Hz to 10 kHz, modifiable via software; default 1 Hz to 3.5 kHz
Sampling frequency per channel	25 kHz or lower, software controlled
Integrated Stimulus Generator	
Voltage stimulation	max. ± 5 V
Stimulation pattern: Pulse or burst	Stimulation sites freely selectable
Power Supply Unit MPU 30	
Voltage range	100 - 240 VAC
Output voltage	24 VDC
Max. power	65 W
Frequency	50 / 60 Hz
Mark of conformity	CE
European standard	EN61010
Signal Collector Unit SCU	
Dimension (W x D x H)	250 mm x 83 mm x 25 mm
Weight	300 g
4 Inputs for headstages (HS1 to HS 4)	Lemo connector, EPG.0B.307.HLN
1 Connector with 4 analog outputs for LED driver	Lemo connector, EPG.0B.304.HLN
Voltage output of each analog output	0 - 5 V
2 Signal Collector Unit to Interface Board connectors	External power over iX-industrial cable, type B

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Interface Board IFB-C Multiboot	
Dimensions (W x D x H)	250 mm x 83 mm x 25 mm
Weight	300 g
Front Panel	
2 Sync IN and Sync OUT	Connectors for IFB-C, connection in a chain: Lemo connector, EPL.00.304 NLN
1 8-Channel Analog IN	10-pin connector, DIL10Header-100mil
2 Analog Inputs, Channel 1 and Channel 2	Lemo connector, EPL.00.250 NTN
Signal input range for analog channels	±10 V voltage input range @ 24 bit ADC
2 LEDs	LED light is on, while link to headstage is working
4 Digital Inputs	Lemo connector, EPL 00250 NTN
4 Digital Outputs	Lemo connector, EPL 00250 NTN
1 Ground	Common jack 4 mm, banana plug
Rear Panel	
I / O	Switch On / Off
1 Power supply	MPU 30, PWR DC 0.65 x 2.75 mm
1 Ground	Common jack 4 mm, banana plug
1 16 bit Digital In / Out	68-pin MCS standard connector, Honda-PCS-XE68LFD
2 Auxiliary channels (Not in use!)	Lemo connector, EPL.00.250 NTN
1 Audio output	Stereo jack 3.5 mm
1 JTAG DSP	14-pin JTAG connector, DIL14Header-100mil-anged
2 IFB-C to SCU connectors	External power over iX-industrial cable, type B
2 USB-C ports	USB-C A and USB-C B
Software	
Incub8-Screen	
Incub8-Analyzer	



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