

Tech Ergo Appliquées Catalog CAPTIV 2019



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Software

CAPTIV, make impossible possible!

Integrated software for the synchronous recording of sensors data, videos and observations. Multiples displays and analyses capabilities for a direct access to the results.



PC required : OS : Windows 7/8/10 (32/64 bits) Processor : Intel i5 ou i7 RAM : 8 Go minimum

TFA

Comparison

O: option | X: compatible

Category	Item	L2100 - V	L2100 - M	L7000	L7000 Premier	T-server
General	Import projet CAPTIV	x	х	х	х	
information	Import video	х	х	х	x	
	Import of T-LOG files			х	x	
	Import of measured files		х	х	x	
	Import of audio files			х	x	
	EDF import				х	
	Project extraction	х	x	х	х	
	Data export (txt, EDF)		x	х	х	
	Internet license	х	x	х	х	
	Network license	х	х			
Recording	Multiple-devices			х	x	
	T-USB (unavailable)			х	x	х
	T-LOG			х	x	
	T-MR (unavailable)			х	x	х
	T-DAC / T-DAC 8 (unavailable)			х	х	x
	T-REC			х	x	х
	T-Server				0	
	Motion				x	х
	Biometrics			х	x	
	Thought Technology			х	x	
	Варри			x	x	
	Video	x	x	x	x	
Evetracking	Торіі				x	
Lyctrucking	Eyetech				x	
	FX3 (ex FOVIO)				x	
	DSI				x	
EEG	B-Alert				x	
	Ерос				x	
	Face Coding			0	o	
Tagging	Post tagging	x	х	х	x	
	Real-time tagging	x	х	х	x	
	Transition	х	х	х	x	
	Simultaneities	x	х	х	x	
	Protocol Export / Statement	x	х	х	x	
	Processing		х	х	x	
Display	Measurements		х	х	х	
	Videos	х	х	х	x	
	Tagging	х	х	х	x	
Tools	Basic processing		х	x	x	
	Standard processing			x	х	
	Advanced processing				х	
	Motion tools				x	
	FFT				x	
	GPS (speed & altitude calculation)				x	
Analyses	Equation area	х	x	x	x	
-	Statistics on measures		×	x	x	
	Statistical area	x	x	x	x	
	Exposure		x	x	x	
	Heart rate				x	
	Angulation / posture				x	
	Force				x	



T-Server

Integrate our T-Sens sensors in your application!

T-Server provides powerful synchronization, and real-time distribution of raw data from TEA T-Sens sensors such as physiological or motion (IMU) sensors on a network over TCP/IP. T-Server does substantially reduce the development time and costs related to multiple data streams integration for either basic scientific research, prototyping of real-time feedback systems, or even data combination in teamwork environments.

T-Server can be embedded into the CAPTIV-L7000 software, benefiting from both CAPTIV L7000 recording and processing capabilities and T-Server streaming capability. It also provides an additional input server for remotely controlling CAPTIV and making automatic coding.



T-LOG

Move freely with T-sens sensors!

- ref. C2000

Portable recorder for T-Sens sensors: forget restraining and uncomfortable cables!

Wireless communication between T-Sens sensors and T-Log datalogger allows subjects to behave in a naturalistic fashion. With its large touch-screen and the powerful CAPTIV-L7000 analysis software, T-Log offers unchallenged flexibility to demanding professionals.



T-LOG



Specifications			
Memory	16 Go (internal) 2 8″ touchscroop		
PC Communication	USB 2.0		
Sampling rate Bandwidth	16Hz to 2048 Hz 4608Hz for standard T-log 7560Hz for Motion T-log		
Sensors conncection	1 to 12 (standard T-log) 1 to 15 (Motion T-log)		
Recommanded distance	6m		
Electric	cal characteristics		
Power supply Recording time Charging time	Internal battery, rechargeable via USB or suitcase 12h 4h		
Mechanical characteristics			
Dimensions Weight	117 x 73 x 23 mm 170g		



T-REC

Receive real-time data from T-sens wireless sensors!

T-REC is a wireless receiver for T-Sens sensors for collecting' the measurements in real time. With its Trigger in/out, it can also be synchronised with third-party measurement devices.

T-REC streams to: CAPTIV-L7000/7000 Premier software and T-Server.



Specifications			
Angalog output Angalog input Trigger-out Trigger-in Definable triggers T-sens sensors connections USB port Antenna Theoretical free-field range Recommended range Bandwidth Dimensions	0 0 1 1 0 1 to 16 1 1 45m 15m 768Hz 140mm x 130mm x 30mm		





Motion Capture

Motion Tracking with unchallenged robustness outside the lab!

Our wireless inertial units T-Sens Motion combine accelerometers, gyroscopes, magnetometers and powerful fusion algorithms. Measurements are extremely robust over time against vibrations, magnetic field variations and disturbed environments.





Tech Ergo Appliquées www.teaergo.com

Tel:+ 33 (0)3 83 44 08 09 E-mail: contact@teaergo.com

Motion Capture

T-sens Motion - ref. C2041



Specifications			
Number of channels Calibration Frequency Precision Head Pitch, Roll	4 (Quaternion) position 32Hz to 128Hz 3° 0,5°		
Electrical characteristics			
Power supply Recording time Charging time	Li-Ion 300mAh 4h 3h		
Mechan	ical characteristics		
Dimensions Weight	60mm x 35mm x 15mm 30g		
Operating conditions			
T° Humidity Shock resistance	0°C to 40°C < 60% 2000 G		

Motion suitcase

- réf. 2047

Sensors arrangement and charging suitcase:

1 T-Log Datalogger 1 T-REC Data-receiver 15 T-Sens Motion(IMU) sensors Sensors straps



Motion fixation Kit

- ref C2043 / 46

Ref C2043 : **Full-body kit** Velcro strips for attaching Motion sensors : arm - forearm - hands - back - head - pelvis - thigh knee - feet

Ref C2046/1 : **Upper-body kit** Velcro strips for attaching Motion sensors : arm - forearm - hands - back - head

Ref C2046/2 : **Lower-body kit** Velcro strips for attaching Motion sensors : pelvis - thigh - knee - feet



T-Sens senso	rs	
T-sens EMG - ref C2031	SI	oecifications
Wireless sensor for surface electromyography (sEMG) measurement.	Number of channels Calibration Unit Sampling rate RMS calculation Resolution Caliber	1 F-max / Force maximal volontaire μV 2048Hz 128Hz 16Bits 4000μV, 2000μV, 1400μV, 700μV
and wet	Electric	cal characteristics
C 15 ENG	Power supply Recording time Charging time	Li-Lon 230 mAh 8 h 3 h
	Mechan	ical characteristics
Electrode consumable, see page 16	Dimensions Cable length + electrode Weight	52 mm x 25 mm x 14 mm 70 mm 20 g
	Opera	ating conditions
	Temperature Humidity	0°c tp 40 °c < 60%

Specifications			
Number of channels	1		
Unit	μV		
Sampling rate	256Hz		
Sampling	x 4		
Resolution	16Bits		
Ranges of measures	±2,4mV, ± 1,2mV, ±0,8mV		
Electric	cal characteristics		
Power Supply	Li-Lon 230 mAh		
Recording time	8 h		
Charging time	3 h		
Mechan	Mechanical characteristics		
Dimensions	52mm x 25mm x 14mm		
Cable lenght + electrodes	85mm		
Belt size	M to XXL		
Weight	20g		
Operating conditions			
Temperature	0°c to 40 °c		
Humidity	< 60%		



Wireless sensor for raw ECG measurement.

- ref C2035 / 36

T-sens ECG



T-sens Accelerometer

- ref C2026

Wireless sensor for acceleration measurement. The measurements consist in linear acceleration on 3-axis (X, Y, Z).



Specifications			
Number of channels	3 (X, Y, Z)		
Calibration	no		
Unit	G		
Sampling rate	128Hz		
Resolution	3mg		
Ranges of measures	+/- 6g		
Non linearity	120mg		
Offset max (X, Y)	+/- 30mg		
Offset max (Z)	+/- 20mg		
Electric	al characteristics		
Power Supply	Li-Lon 230 mAh		
Recording time	8 h		
Charging time	3 h		
Mechan	ical characteristics		
Dimensions	52 mm x 25 mm x 14 mm		
Weight	20 g		
Operating conditions			
Temperature	0°c to 40 °C		
Humidity	< 60%		

Specifications			
Number of channels Calibration Unit Sampling rate Resolution Range of measures (Roll / Pitch) Accuracy (static)	2 (Pitch, Roll) Resting points Degrees (°) 16Hz / channel 12 Bits +/-90° +/- 90° 1° if <15° 2° if >15°		
Electrical characteristics			
Power Supply Recording time Charging time	Li-Lon 230 mAh 8 h 3 h		
Mechanical characteristics			
Dimensions Weight	52 mm x 25 mm x 14 mm 20 g		
Operating conditions			
Temperature Humidity	0°c to 40 °C < 60%		

T-sens Inclinometer

- ref C2028

Wireless sensor for determining the inclination of an object or a person. The measurements consist in 2 Euler angles (pitch and roll).





T-sens GSR

- ref C2034

Wireless GSR sensor for skin conductance measurement. Two electrodes are positioned on the tip of two fingers.



Specifications			
1 no μS (Siemens) 32Hz 16 Bits 0.2-30μS			
Electrical characteristics			
Li-Lon 230 mAh 8 h 3 h			
ical characteristics			
52 mm x 25 mm x 14 mm 200 mm 20 g			
Operating conditions			
0°c to 40 °C < 60%			

Specifications			
Number of channels	1		
Calibration	No		
Unit	°C		
Sampling rate	32Hz		
Ranges of measures	-40°C to 120°C		
Resolution	0,05°C		
Linearity	0,5°C		
Precision	0,5°C over the temperature range		
Electric	cal characteristics		
Power Supply	Li-Lon 230 mAh		
Recording time	8 h		
Charging time	3 h		
Mechan	ical characteristics		
Dimensions	52 mm x 25 mm x 14 mm		
Longer of cable + electrodes	100 mm		
Weight	20 g		
Operating conditions			
Temperature	0°c to 40 °c		
Humidity	< 60%		

T-sens Temperature

- ref C2032

Wireless sensor for skin temperature or ambient temperature measurement.



T-sens GSR + T°

- ref C2037

Wireless GSR+T°C sensor for measuring both skin conductance (GSR) and skin temperature.



Specifications			
Number of channels Calibration Unit Frequency Resolution Range of measures Linearity Precision	GSR 1 no μS (Siemens) 32Hz 16 Bits 0.2 -30μS N/A N/A	Temp 1 no °C 32Hz 0.05°C -40°C to 120°C 0.5°C 0.5°C	
Electrical characteristics			
Power supply Recording time Charging time	Li-Lon 230 mAh 8 h 3 h		
Mechanical characteristics			
Dimensions Cable length + eletrodes Weight	52 mm x 25 mm x 14 mm 200 mm 20 g		
Operating conditions			
Temperature Humidity	0°c to 40 °C < 60%		

N/A : no applicable

pecifications
1 no % (deformation) 32Hz 0,01%
cal characteristics
Li-Lon 230 mAh 8 h 3 h
ical characteristics
52mm x 25mm x 14mm 1m 20g 0-75% 70mm (75%)
ating conditions
0°c to 40 °c < 60%

T-sens Respiration

- ref C2033

Wireless sensor for measuring thoracic or abdominal movements (chest strap included), allowing both respiration rhythm and amplitude analyses.



T-sens FSR

- ref 2011

Wireless sensor for force measurement (Force Sensing Resistor). This sensor is supplied with 3 standard cells for fingers (contact TEA for other sizes).



Sr	pecifications		
Number of channels	3		
Unit	Kg/cm ² ou FMV (%)		
Sampling rate	32Hz / channel		
Calibration	2 points (repos / Fmax)		
Resolution	0,01 Kg/cm ²		
Electric	cal characteristics		
Power supply	Li-Lon 230 mAh		
Recording time	8 h		
Charging time	3 h		
Mechanical characteristics			
Dimensions	52 mm x 25 mm x 14 mm		
Longer of cable without cellule	140 mm		
Weight	20 g		
Opera	ating conditions		
Temperature	0°c to 40 °C		
Humidity	< 60%		

Sr	pecifications	1
Calibration Unit Frequecy Resolution Precision Overload capability Model 5,10 lbf Model 25-1000 lbf	N/A N (Newton) / Ibf 32Hz 16 Bits +/- 0,1% 800% 150%	
Electric	cal characteristics	
Power supply Recording time Charging time	Li-Lon 230 mAh 8 h 3 h	
Mechan	ical characteristics	
Dimensions Belt length Weight Available range (Ibf)	52mm x 25mm x 14mm 90mm 20g 5, 10, 25, 50, 100, 200, 300, 500, 1000	
Opera	ating conditions	
Temperature Humidity	0°c to 40 °C < 60%	

F-sens Load Cell

- ref C2061

Wireless force measurement sensor (push/pull) supplied with a load cell to be selected among a large variety of ranges. The load cell has two threaded holes which enable attachment on a bracket, trolley, or other fixation device.



N/A : no applicable



T-sens Universal

- ref C2005

Wireless sensor allowing the interfacing with any third-party sensor with a 0-3V analog output.



Sp	becifications
Number of channels Calibration Unit Sampling rate Precision Resolution Ranges of measures	1 No V 32Hz to 256Hz / voie 250µV 15 bits 0 – 3V
Electric	al characteristics
Alimentation Autonomy Charging time	Li-Lon 230 mAh 8 h 3 h
Mechan	ical characteristics
Dimension Cable Weight	52 mm x 25 mm x 14 mm 90 mm 20 g
Opera	ating conditions
Maximum input Voltage Temperature Humidity	Any voltage higher than 3V will permanently damage the sensor 0°C to 40°C < 60%



Accessories

Standard suitcase

Sensors storage and charging suitcase for:

T-Log Datalogger 6 T-Sens sensors Accessories



Disposable electrodes

- ref C2090 / 92

Connects directly to the signal amplifier.

Triode electrode for EMG - ref. C2090 Single electrode for ECG - ref. C2092



Support

Additional warranty

- + 12 months additional warranty
- + Software update
- + T-sens Motion sensors (IMU) calibration control (recommended once per year)



Services **Ergonomics services through measurement**



On-site data collection*

* The data obtained are confidential and remain the property of the customer.

Hardware and Software solutions featured in our field offers

Software	Receiver and data-logger	T-sens sensor	Or / And
L7000 Premier (page 6)	T-LOG (page 7)	T-sens sensors (pages 9 to 16)	Ambient measurement Vibration measurement Eyetracker

Training courses

- + Expert operation of CAPTIV Solutions
- + Gestures and postures (PRAP)
- + Expertise Physiology and Biomechanics





Unchallenged experience with CAPTIV NeuroLab for understanding the behavior and emotions of your customers

Scre	en kit	Screen & Mobile kit
ftware		Software
		Data-receiver
a-receiver		GSR sensor
R sensor	(and	Datalogger

Contact TEA :

Technopôle de Nancy-Brabois,3 rue du Bois Chêne Le Loup, 54500 VANDOEUVRE-LES-NANCY, FRANCE Tel : +33 (0)383 440 809 - Fax : +33 (0)383 900 321 E-mail : contact@teaergo.com

site : www.teaergo.com in F 🕥 돈