






CNS Monitor Acquisition Devices





The following devices are components of the CNS Monitor that directly acquire data.










	Device Name	Model(s)	Manufacturer	Measurements
	CNS Advanced ICU Amplifier	EEG-300 (US) EEG-320 (EU & Canada)	Moberg	EEG (up to 33 referential inputs; up to 4 differential input pairs)
	CNS 16 Input EEG Amplifier	EEG-200 (US) EEG-220 (EU & Canada)	Moberg	EEG (up to 16 referential inputs)
	CNS Video Camera	VID-300 (US) VID-320 (EU & Canada) VID-200 (US) VID-220 (EU & Canada) VID-100	Moberg	Patient Video






External Device Integration

The CNS Monitor collects and integrates data from the following devices. Each interface consists of CNS software and the appropriate cable. Digital communications help ensure accuracy.

Patient Monitor Interfaces				
	Device Name	Model(s)	Manufacturer	Measurements
	Draeger Infinity®	Delta, IACS	Draeger Medical	<i>Numerics only:</i> ABP, BIS, BIS SQI, BIS EMG, BIS PWR, BIS SEF, BIS SR, CPP, CPP2, CVP, EtCO2, FiO2, HR, ICP, ICP2, inCO2, LAP, NBP, PAP, RAP, RR, RRc, rSO2, SpO2, T
	GE CARESCAPE	B650, B850	GE Healthcare	<i>Numerics and Waveforms:</i> ABP, ART, CVP, ICP, ICP2, LAP, PAP, RAP, UAP, UVP <i>Numerics only:</i> BIS, BIS SQI, BIS EMG, BIS PWR, BIS SEF, BIS SR, CPP, CPP2, EtCO2, FiO2, HR, NBP, RR, SpO2, Temperatures <i>Waveforms only:</i> ECG, Pleth, RESP







	Device Name	Model(s)	Manufacturer	Measurements
	GE Solar	8000M, 8000i, Dash® Note: Waveforms require GE Unity Network	GE Healthcare	<i>Numerics and Waveforms:</i> ART, CVP, ICP, ICP2, LAP, PAP, RAP, UAP, UVP <i>Numerics only:</i> CPP, CPP2, HR, NBP, RR, SpO2, Temperatures <i>Waveforms only:</i> ECG, Pleth, RESP
	Philips IntelliVue	MX800, MP 20/30/40/50/60/70/80/90 Note: Requires MIB/RS232 option	Philips Medical Systems	<i>Numerics and Waveforms:</i> ABP, Ao, ART, BAP, CVP, FAP, IC1, IC2, ICP, LAP, P, P1, P2, P3, P4, PAP, RAP, UAP, UVP <i>Numerics only:</i> BIS, BIS SQI, BIS EMG, BIS PWR, BIS SEF, BIS SR, CPP, EtCO2, HR, NBP, RR, SpO2, Temperatures <i>Waveforms only:</i> CO2, ECG, Pleth, RESP
	Philips CMS	M1165/66/67/75/76/77A M1205A V24 and V26 Note: Requires RS-232 option	Philips Medical Systems	<i>Numerics and Waveforms:</i> ABP, ART, CVP, ICP, LAP, PAP, RAP, UAP, UVP <i>Numerics only:</i> CPP, HR, NBP, RR, SpO2, Temperatures (up to 4) <i>Waveforms only:</i> ECG, Pleth, RESP
	Spacelabs Ultraview	Note: Requires PDL option	Spacelabs	<i>Numerics only:</i> ART, CPP, CVP, HR, ICP, LAP, NBP, PAP, RAP, RR, SpO2, Temperatures

Neuro Device Interfaces				
	Device Name	Model(s)	Manufacturer	Measurements
	Bowman Perfusion Monitor	Bowman 500	Hemedex	<i>Numerics only:</i> Perfusion, ΔT_{perf} , T_{perf} , K, PPA
	CASMED FORE-SIGHT	MC-2000 Series, ELITE	CASMED (CAS Medical Systems, Inc.)	<i>Numerics only:</i> StO ₂
	Covidien BIS Monitor	A-2000, View, Vista	Covidien	<i>Numerics only:</i> BIS, BIS SQI, BIS EMG, BIS PWR, BIS SEF, BIS SR
	Covidien INVOS®	5100B, 5100C	Covidien	<i>Numerics only:</i> rSO ₂ (2 or 4 locations)
	Integra Camino®	CAM01, MPM-1	Integra LifeSciences	<i>Numerics and Waveforms:</i> ICP <i>Numerics only:</i> ABP, CPP, ICT
	Integra Licox® CMP	AC31	Integra LifeSciences	<i>Numerics only:</i> ICT, PbtO ₂
	ISCUSflex	ISCUSflex	MDialysis	<i>Numerics only:</i> Glucose, Glutamate, Glycerol, L/P Ratio, Lactate, Pyruvate
	NeuroOptics Pupillometer	NPi®-200	NeuroOptics	<i>Numerics only:</i> NPi, Pupil Size, Pupil MIN, Pupil CH, Pupil LAT, Pupil CV, Pupil MCV, Pupil DV, NPi Diff, Pupil Size Diff, Pupil MIN Diff
	Spencer TCD	ST3/PMD150	Spencer Technologies	<i>Numerics only:</i> TCD Depth, Dias, Length, Mean, P.I., Peak, Power, Emboli Rate <i>Waveforms only:</i> Env

Other Device Interfaces				
	Device Name	Model(s)	Manufacturer	Measurements
	Arctic Sun® Temperature Management System	2000, 5000e	Bard Medical Division	<i>Numerics only:</i> ASMode, FlowRate, Tinlet, Toutlet, Tpatient1, Tpatient2, Ttarget
	CSZ Blanketrol® III	233	Cincinnati Sub Zero	<i>Numerics only:</i> Tcore, TsetPt, Twater
	Edwards Vigileo		Edwards	<i>Numerics only:</i> CCI, CCO, CVP, OxSQI, SV, SVI, SVR, SVRI, SVV, ScvO2, SvO2
	Edwards EV1000		Edwards	<i>Numerics only:</i> AP, BT, CCI, CCO, cHGB, CFI, CVP, DO2, DO2I, EVLW, ELWI, GEDV, GEDI, GEF, iAvgPR, iBT, iCO, iCI, iCVP, iHGB, iMAP, iSpO2, iSV, iSVI, iSVR, iSVRI, ITBV, ITBI, OxSQI, PR, PVPI, SV, SVI, SVR, SVRI, SVV, ScvO2, SvO2, VO2, VO2e, VO2I, VO2le
	Pulsion PiCCO2	Note: PulsioFlex is not supported	Pulsion Medical Systems	<i>Numerics and Waveforms:</i> AP <i>Numerics only:</i> AP, CFI, CI, CO, CPI, CPO, CVP, DO2, DO2I, dPmx, ELWI, EVLW, GEDI, GEDV, GEF, HR, ITBI, ITBV, PCCI, PCCO, PDR, PPV, PVPI, R15, ScvO2, SpO2, SV, SVI, SVR, SVRI, SVV, VO2, VO2I <i>Waveforms only:</i> TB

Device Interfaces Supported for Investigational/Research Use

The following interfaces are still investigational and/or supported only for use within IRB-approved research.

Image	Device Name	Model(s)	Manufacturer	Measurements
	Hamilton Ventilator	S1/G5	Hamilton Medical	Cstat, EtCO ₂ , ExpMinVol, fTotal, FiO ₂ , I:E, PEEP, P _{insp} , P _{mean} , P _{minimum} , P _{peak} , P _{plateau} , R _{insp} , RSB, SpO ₂ , TE, TI, V _{te} , fSpontPct
	Precess Patient Monitor	3160DCU	Invivo	Vital sign numerics
	Oridion Capnostream	Capnostream 20	Covidien (formerly Oridion)	CO ₂ , EtCO ₂ , FiCO ₂ , IPI, PR, RR, SpO ₂
	NIRO Oxygenation Monitor	NIRO-200, NIRO-300	Hamamatsu	Δ CtOx, Δ O ₂ Hb, Δ Hb, Δ cHb, TOI, nTHI
	CDI 101 Monitor		Terumo	
	Quest Sound Level Meter	1900, 2900	3M (formerly Quest Technologies)	LEQ, L _{max} , L ₁₀ , L ₉₀ , L _{peak}

Don't see your device listed?

The CNS Monitor is generally capable of interfacing to any device with a digital output. Please contact us to discuss the development of new device interfaces.