

Real-Time Monitoring of Neurocritical Patients with Diffuse Optical Spectroscopies

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jove.com/video/61608

Materials

Name	Company	Catalog Number	Comments
3D Printer	Sethi3D	S2	3D-printer used to print the customizable probes
Arduino UNO	Arduino	UNO REV3	Microcontroller responsible to interleave the DCS and FD-DOS measurements
DCS Correlator	Correlator.com	Flex11-16ch	Component of the DCS module
DCS Detectors IO Boards	Excelitas Technology	SPCM-AQ4C-IO	Component of the DCS module
DCS Detectors	Excelitas Technology	SPCM-AQ4C	Component of the DCS module
DCS Laser	CrystaLaser	DL785-120-SO	Component of the DCS module
DCS Power supply	Artesyn	UMP10T-S2A-S2A-S2A-S2A-IES-00-A	Component of the DCS module (power supply for the DCS detecto; 2, 5 and 30V)
FD-DOS fibers	ISS	Imagent supplies	The fibers used for FD-DOS detection and illumination are provided by ISS
Flexible 3D printer material	Sethi3D	NinjaFlex	Material used to print the flexible customizable probes
Imagent	ISS	Imagent	FD-DOS module
Laser safety goggles	Thorlabs	LG9	
Multi-mode fiber	Thorlabs	FT400EMT	Multi-mode fiber used for DCS illumination
Neutral density filter 1.0 OD	Edmund Optics	53-705	Neutral density filter for the short source detector separations
Single-mode optical fiber	Thorlabs	780HP	Single-mode optical fiber used for the DCS detectors
System battery	SMS	NET4	System battery used for transportation