SCONTEL
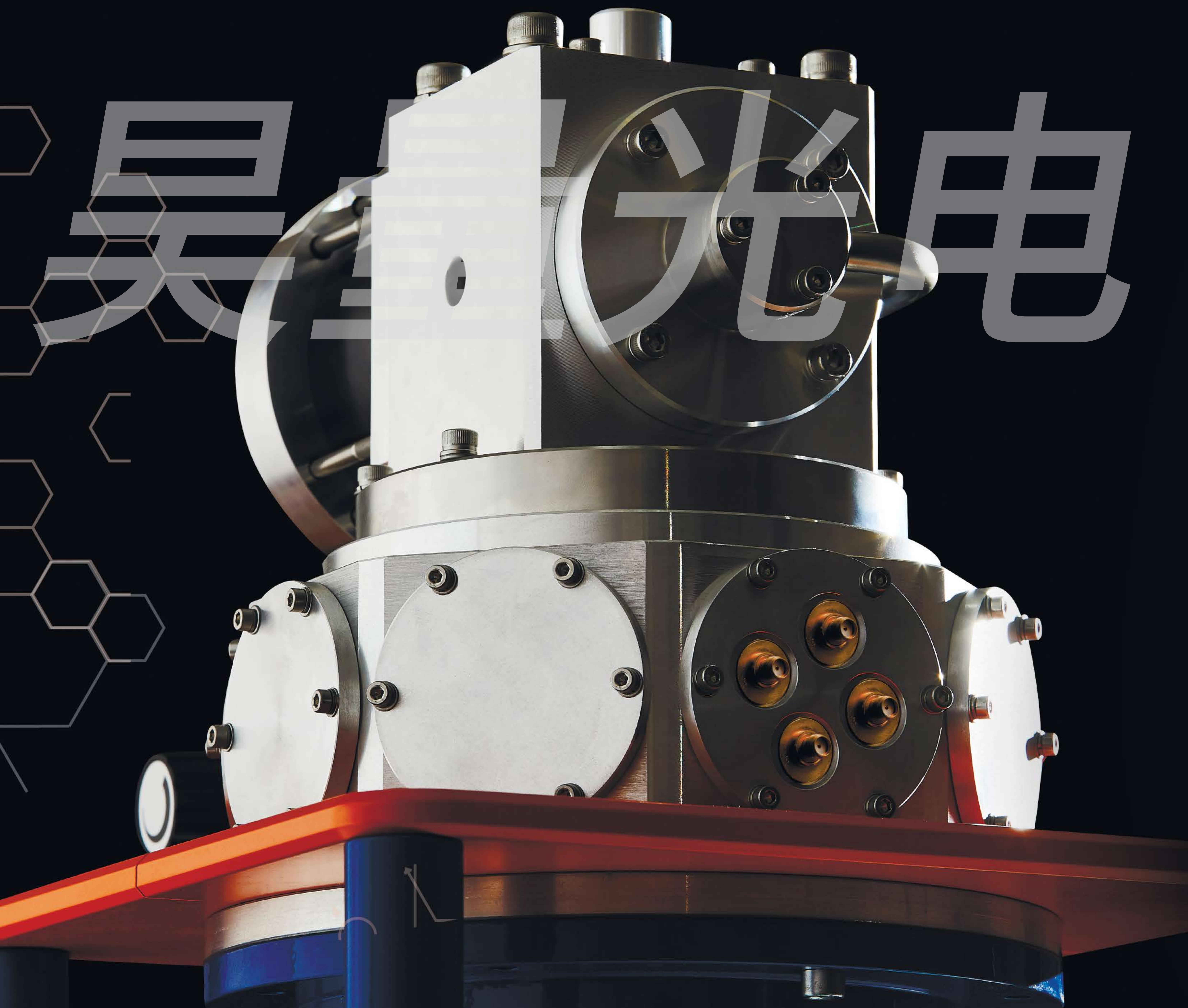## SUPERCONDUCTING NANOTECHNOLOGY
DETECT EVERYTHING YOU WANT

ULTRA-SENSITIVE OPTICAL DETECTORS
FOR ANY EXPERIMENTAL DEMANDS

CUSTOMIZED CRYOGENIC EQUIPMENT

Feel free to contact us to configure a cryostat to be dedicated to the needs of your experiment. Our experience in low-temperature equipment for optical, DC and RF experiments allows building a cryostat that meets unique requirements.

Dipsticks

#	ID	Details	Temperature	Internal ø	Outer ø	Optical input		RF cable	DC wiring	DC connector	Thermometer	Pressure gauge
1	Cryogenic Insert-30	low temperature is reached by pumping out the helium vapors	1.7 K	24 mm	38 mm	fiber	up to 2 channels	up to 2 channels	optional	+	+	+
2	Cryogenic Insert-50			30 mm	46 mm	fiber	up to 4 channels	up to 4 channels	optional	optional	+	+

Cryogen-free systems

#	ID	Details	Heat load / min temp	Cold plate ø	Chamber height	Optical input		RF cable	DC wiring	DC connector	Thermometer	Pressure gauge
3	Cryogen-free-fiber	cryostat is equipped with radiation shields (1st and 2nd cryo stages)	0.1 W @ 4 K Tmin 2.3 K	90 mm	55 mm	fiber	up to 4 channels per flange, up to 6 flanges	up to 4 channels per flange, up to 6 flanges	+	+	+	–
4	Cryogen-free-window	cold plate is equipped with a rectangular grid of tapped holes (M3 on a 10 mm grid)				window* opening	ø 18 mm up to 6 channels	up to 4 channels per flange, up to 6 flanges	+	+	+	–
5	Cryogen-free-fiber-1K	Standard GM cryocooler equipped with additional sorption stage	0.1 mW @ 1 K Tmin 0.8 K	50 mm	50 mm	fiber	up to 8 channels	up to 8 channels	+	+	+	–

LHe cryostats

#	ID	Details	Temperature	Cold plate ø	Chamber height	Optical input		RF cable	DC wiring	DC connector	Thermometer	Pressure gauge
6	LHe-window	LHe cryostat is equipped with 80 K and 150 K vapor cooled radiation shields	4.2 K	120 mm	80 mm	window* opening	ø 18 mm up to 2 channels	up to 2 channels	+	+	+	–
7	LHe-fiber	cold plate is equipped with a rectangular grid of tapped holes (M3 on a 10 mm grid)	4.2 K	120 mm	80 mm	fiber**	up to 2 channels	up to 2 channels	+	+	+	–

* any window can be preinstalled by request

** a sealed fiber connector is preinstalled using window opening