

PARAMETER	DESIGN VALUE
Momentum range	3-8 GeV/c
π /K rejection factor	Not less than 500
K/p rejection factor	Not less than 100
Angular coverage	5° to 25°
Cherenkov light radiator	Aerogel
Aerogel refraction index	1.05
Photodetector	64 channels photomultipliers (MA-PMTs)
Number of PMTs	391
Total number of readout channels	25024
Electronics	MAROC3 and FPGA on detector boards fully integrated into the CLAS12 DAQ
Data transfer to CLAS12 DAQ	Fiber optics cables
Spherical mirror	Carbon-fiber-reinforced polymer (CFRP) Radius of curvature =2700 mm Area= 3.38 m ²
Flat mirror	Sandwich with glass skin (0.7+0.7 mm) and Al honeycomb core 8.6 mm thick