C5b

The C5b is a modified version of the C5 hull that sports a large sensor array.

About the Ship

The C5b is a large thermal and subspace sensor designed for use as part of a large telescopic array. The primary sensor is inset into the hexagonal hull of the craft, and detection antennas extend from the exterior while all of the important electronics, engines, and other equipment needed for operation is bolted to the hull where appropriate.

The ship intentionally lacks FTL systems and weapons to cut down on production cost. As such it has to be moved to its final destination by another FTL capable craft.

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C5b	
Class Overview	
Class	C5-0ba
Manufaturer	usostarorganization
Mission Specialization	Telescope Array
General Characteristics	
Type	Science Ship
Radius (W/ Antenna)	168 m
Radius (Body Only)	76m
Lifespan	15 Years
Power Source	Hyperspace Taps
Propulsion	
Sublight	0.25c
Defenses	
Hull Armor	SDR 20
Shield Capacity	SDR 20
Shield Threshold	2
Stealth	N/A
Detection	
Optical	Unlimited
Subspace	.5 LY
Thermal	Unlimited

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Appearance

The C5 has a hexagonal ring as a main body with a large antenna array extending out and behind it from each corner. The sides of the hexagon have thrusters stored in huge size standard star ship cargo containers that are bolted to the hull. In the center of the ship is a hexagonal fuel tank. The front of this fuel tank has several golden hexagonal reflectors that make up the ship's electro-optical telescope. This fuel tank also has 12 huge cargo containers connected to it which house the ship's electronics and some additional power generators. Looking from the rear of the ship, the red warm coolant tube, blue cold coolant tube, and yellow power transmission tube are visible. Six long antenna extend back and out from the ship at the corners.

History and Background

The original c5 design was a fairly simple craft that was always intended to be modified and used later for other tasks. The first 'other task' for the ship would be to fulfill Wazu's desire to build a large scale telescope. As payment for providing usostarorganization with the original design, an agreement was made to build a large telescopic array near 188604. The array itself would be housed inside of C5 type star-ship hulls carrying the appropriate equipment for the Array.

Deployment

The C5b lacks its own FTL drive, so it is reliant on other star-ships to tow it to its final destination. Once there it can use its own STL drives for station keeping.

Ship Systems

- Electronics Container x12
- Engine Containers x36

Armor

The C5 is built with fairly simple yet sturdy composite materials throughout, with a focus on failing gracefully through well protected and redundant systems. For DR rating purposes it is considered in the 'heavy' armor class.

Breadboard

The Breadboard makes up the main superstructure of the craft. The six panels here contain both power and coolant distribution systems, allowing engineers to punch holes in the external shell to bolt in

components to a shared network of power and coolant lines. The volume of this system stores more than enough coolant for the entire ship, which also doubles as reaction mass for the engines.

Optical/Thermal Sensor

Mounted on the front of the ship is a highly accurate telescope designed to see the upper ends of the visible spectrum and do thermal imaging. The sensor's range is really only limited by the speed of light, and the sensor can only really look directly in front of the ship.

The sensor is fairly large, and slow to focus, making it far more suited for focusing on objects millions of light years away, but rather poor at viewing objects that are in the local area.

Shields

The C5 has six fairly basic shield generators located around the front of the hexagonal main structure. These generators can project the standard anti-gravity distortion shield for protecting the ship against scalar attacks as well as the more conventional electrostatic barrier that can absorb projectile and energy attacks.

Subspace Sensor

Extending from the corners of the main body of the ship are the subspace antennas. These sensors can track the subspace disruptions usually put out by super-tech such as Aether drives or gravitational manipulation. Like the other sensors on the ship, these are better at viewing objects further away, and are only marginally capable of sensing objects relatively close by with any accuracy.