

Test Thought Armor - X01 "LAMIA Agura"

History and Background

Designed in YE 30 as part of [Kage Yaichiro's Project THOUGHT](#), the Agura is an early effort at making a Thought Armor. While not initially successful, modifications would later allow it to serve its purpose of testing various limb designs.

About the LAMIA Agura

Built from a salvaged [Lamia M1 Space Mecha](#), the LAMIA Agura is the first Project THOUGHT development machine ever built. Its main purpose is to test various limb configurations and designs, to find the best design for the limbs, head, shoulders, and hips to be most humanoid in movement as possible while remaining strong and accurate.

Unfortunately, this model suffers from a cramped and primitive mecha cockpit design, and never sees mass production. So much so, in fact, that it lost the designation of "Alpha" and gained the nickname "LAMIA Agura" (or just "Agura") which stuck. It does serve its purpose admirably, but this is only after the addition of the [Test Thought Component - Remote Control](#) was made after several failures to test the unit successfully.

Statistical Information

Government: None Organization: [Project THOUGHT](#) Type: Prototype Research and Development Thought Armor, with mecha cockpit Class: Modified LAMIA M1 Development Machine Designer: Original: [Star Army Research Administration](#) (PROJECT REBECCA) Modifications: [Kage Yaichiro](#) Manufacturer: Original: [Ketsurui Fleet Yards](#), Modifications: [Kage Yaichiro](#), [Project THOUGHT](#) Production: One Prototype R&D unit. Will never see mass production.

Crew: 1. Maximum Capacity: 1. **Appearance:** A large armor with a heavily shielded cockpit/torso, and plate shielding on the head and arms. It has an elliptical shield and is painted white with yellow and black stripes to denote its R&D nature.

Width: ~3.5 feet Height: ~8 feet **Mass:** 136.1 kg/300 lbs.

Speeds

Ground speed: ~113 kmh/~70 mph with [Test Thought Component - X01M "Mixed Limbs"](#) equipped **Air speed:** Mach 5 **Zero Atmosphere:** 0.25c STL, 500c FTL Range: 15 days travel (about 20.5 ly at max speed) **Lifespan:** 10 years+

Weapons Systems

No Weapons exist on the LAMIA Agura. This R&D Machine lacks any kind of weapon system, though it does have mockups of them for testing the speed and accuracy of the limbs and reaction time of the pilot.

Systems Descriptions

Armor

Outer Armor is a mixture of plates of Zesuaium-coated Titanium Boron Carbide, Zesuaium-chainmail mesh, and a Tungsten Carbide metal-ceramic alloy base. The mecha is most armored on the main body, and the outside section of the limbs (where the Zesuaium plating is). The mecha can still function without its limbs and weapons pods, so long as the core and engine “backpack” are intact.

Agura Control Pod

The original control pod for the NH-12 has been removed, and replaced with this cramped prototype mecha cockpit. It also uses layers of Zesuaium and Titanium Boron Carbide. While the original design called for a more fetal seating arrangement, the cross-legged form of the Agura won out, eventually influencing the name of the cockpit, and the Thought Armor as a whole. Still, it was notoriously uncomfortable, to the point where alternatives would be sought.

In addition to 15 days of food and water, the cockpit had a helmet, which was plugged directly into the LAMIA’s computer access port. There were no other visible controls except for a trio of heavy levers. One lever shuts down the LAMIA’s power, the other detaches the limbs, hips, and head from the torso, and the third ejects the cockpit from the torso. This is to be used only in emergencies.

When using the cockpit; the image the helmet sees as well as the HUD is implanted into the brain’s visual centers, audio communications is sent to the auditory section of the brain, and the helmet also scans for commands from the pilot to perform maneuvers. Unfortunately, the Optical Tracking System does not work when the Thought Armor is piloted in this manner. Furthermore, pilots found that the thought control system of the helmet, while manageable, was counter-intuitive and primitive at best.

All in all, this cockpit is a first generation model which would not live into the next design phase, but lessons learned from it would eventually advance the project further as the later Beta models would be developed from the data. Of course, the X01 was intended more as a test bed for the various new limb designs, than the thought technologies.

SM-1 Zesuaium Shield

The shield consists of an effectively invincible transparent Zesuaium center mounted in a gray Zesuaium-

coated paintable frame. The "lens" of the shield itself is actually hollow inside (it contains a permanently-sealed vacuum), making the shield surprisingly light. The back of the shield contains flexible attachment straps for mounting on the forearm of the power armor, as well as six adjustable pouches along the inner frame for any storing ammunition, grenades, explosives, or batteries desired.

Communications

Radio: Full spectrum, Dual-Modulation, range theoretically unlimited except by interference. Practical range is short, since the waves only travel at light-speed. Frequency-hop and multi-channel capable. In order to use the secure modes of communication, correct variables must be loaded prior to battle. Such codes are changed on a frequent basis.

Laser: For close-range transmissions, it is more difficult for the enemy to intercept, because they have to be in the area of the beam. Also limited to light-speed. Text only.

Conformal ADN Device: The ADN is a form of psionic and telepathic protection, capable of nullifying all such activity. The device can selectively allow channels to permit secure telepathic operation and to maintain communication even under psionic attack. The ADN devices also negate 'magical' attacks and effects. This newest ADN is safe enough to remain active (older ones operate on standby) at all times. The ADN field protects only the mecha, and extends only two inches out past the surface of the armor (thus, it will not create an obvious "dead zone").

TTC-RC (Test Thought Component - Remote Control): Was added as an upgrade to resolve key issues. See: [Test Thought Component - Remote Control](#)

Sensors

- **Wide-Band Variable Optical Imaging Array (head):** The majority of the sensor systems are located in the head, including a high-resolution variable optical system capable of monitoring a very wide spectrum. By default, the system displays visual and infrared data.
- **Optical Tracking System (skin):** Much like the NH-17S neko, the Ki-M1 can see through its Active Camouflage sensors, giving it a clear view of its surroundings at all time. Unfortunately, this option can't be used with the Agura Cockpit design.
- **Time-Modulated Ultra-Wide Band Radar:** Signals transmitted by UWB radars are pulses generated pseudo-randomly in time. They are only .1 nanoseconds in duration. The energy content in any conventional frequency band is below the noise, making TM-UWB transmission highly covert unless ones knows the specific pseudo-random sequence. TM-UWB has no carrier frequency, no conversion either up or down, and because of the low frequency content of TM-UWB signals, they are capable of seeing through foliage and nonmetallic objects better than regular radar can. Ideal for atmospheric operations and nebulae.

Stealth Systems

- **Active Camouflage:** Puts the image of what is on one side of the craft onto the other, creating the effect of invisibility. The mecha can also use this system to project holograms.

Faux Weapon Systems

- **Faux Rifle:** This false rifle is used to measure the accuracy of the shot, the speed of the aim, and the speed of pulling the trigger, but is nothing more than a multi-sensor, a trigger, and clock. It is made of a durable light yellow plastic, and its weight is meant to mimic that of a real Beam Rifle. It's commonly called the R&D's "Toy Gun".
- **Faux Cannon:** This is built into the arm of the Agura, replacing the Scalar Pulse Cannon. All it does is calculate aim and firing speed, as well as accuracy. It has the same sensor, trigger, and clock as the Faux Rifle. It can detach from the limb.
- **Faux Launcher Pods:** These pods mimic the Missile and Augmentation pods of the LAMIA. They launch spreads of missile-like drones which have sensors and transmitters on them to measure aim/launch response time and accuracy. They swerve around before hitting the target and return, typically able to indicate a successful hit or miss. They can detach from their limbs.

Optional Limb and Head Components

- [Test Thought Component - X01L "Linear Limbs"](#)
- [Test Thought Component - X01R "Rotary Limbs"](#)
- [Test Thought Component - X01D "Doll Limbs"](#)
- [Test Thought Component - X01M "Mixed Limbs"](#)

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