

VBFG Disintegrator – Speculative Engineering Blueprint

Overview

The **VBFG Disintegrator** is a highly advanced directed-energy weapon designed for ultimate lethal effect. It not only disintegrates a target's physical body into microscopic fragments, but also **scrambles the target's consciousness** so thoroughly that even if some form of reincarnation or revival were possible in-universe, the victim retains no memory of their past identity. In essence, the VBFG achieves a **permanent erasure** of both body and mind. This is accomplished via an integration of exotic energy technologies and quantum effects far beyond conventional weaponry. The device is roughly the size of a heavy rifle or shoulder-mounted cannon, with a reinforced barrel and an ominous energy core at its center. Despite its power, it is engineered for field use by a single operator, featuring integrated stabilization and a sophisticated user interface for control. The following blueprint breakdown details the VBFG Disintegrator's design, including an external schematic, an internal cross-section of components, and descriptions of its core systems.

High-Level Design & External Diagram

*Figure 1: High-level external schematic of the VBFG Disintegrator. The blueprint outlines the weapon's major sections, including the barrel, energy core housing (center), grip and stock, and various field generator arrays. The VBFG's form factor resembles a futuristic heavy rifle: a **long barrel** with multiple segmented rings and focusing elements, an armored central housing for the energy core, and a sturdy stock with embedded control interfaces. Externally, the weapon's **barrel assembly** is sheathed in a prismatic array of emitters and lenses, hinting at its beam-focusing technology. Durable plating made from **neutronium alloy** covers critical areas – a material so dense and strong that it is *virtually impervious to conventional energy blasts* ¹. Visible along the barrel are **apertures and crystalline nodes** that form part of the prismatic dispersion array (detailed later). The overall aesthetic is of an engineered, almost industrial device with glowing conduits along its length, signifying the immense power coursing through it.*

Despite the weapon's bulk, ergonomic design considerations are evident. The rear stock and grip section incorporate shock-absorbing materials and **gyroscopic stabilizers**, allowing an operator to handle the recoil from exotic energy discharges. The trigger guard area also houses biometric sensors and interface ports (described in the User Interface section), emphasizing that this is as much a piece of advanced technology as it is a firearm. **From this high-level view, one can identify at least three distinct subsystems:** the power core at the center, the acceleration/focusing barrel in front, and the control and support systems toward the rear.

Internal Cross-Section & Component Layout

Figure 2: Simplified cross-section of the VBFG Disintegrator, revealing internal components. Key parts such as the Exotic Matter Energy Core (A), the Particle Fragmentation Accelerator coils (B) lining the barrel, the Consciousness

Disruption Wave Generator emitters (C), focusing crystal array at the muzzle (D), and cooling systems (E) around the core are illustrated. This cutaway view shows how the VBFG's **major subsystems are arranged within the chassis**. At the heart (A) is the **Exotic Matter Energy Core**, nested in a containment chamber surrounded by circular **quantum resonance coils**. Forward of the core, along the barrel (B), run the **particle acceleration waveguides** – a series of magnetic coil segments that accelerate and shape the disintegrator beam. Near the muzzle, the cross-section shows a cluster of **prismatic focusing crystals** (D) that split and collimate the beam output. In proximity to the core and lining various cavities (E) are **coolant channels and thermal regulators** (depicted as pipe-like structures), which prevent the weapon from overheating during firing.

Also visible in this schematic are the components of the **Consciousness Disruption Wave Generator** (C), positioned adjacent to the main barrel. These appear as smaller ring emitters or antennae-like structures branching off the accelerator. They inject a secondary field into the primary beam. The cross-sectional diagram labels these parts, indicating where each subsystem fits in relation to the others. For example, one can see how the **quantum resonance chamber** encloses the energy core, and how the **beam focusing array** is mounted just behind the forward muzzle aperture. The integration of these parts is critical: the energy core feeds power into the accelerator, the accelerator charges particles and coalesces the destructive beam, and the wave generator modulates the beam with the consciousness-disrupting effect, all while stabilization and cooling systems maintain operational integrity.

Core Components Breakdown

Each key component of the VBFG Disintegrator is described below, with its function and design features:

- **Exotic Matter Energy Core:** This is the power heart of the weapon. The core contains a small artificially-created pocket of exotic spacetime energy – essentially a “**miniature universe in a bottle**” in the words of one theorist ² ³. It harnesses **exotic matter** with *negative energy density*, a speculative substance posited in advanced physics (e.g. for wormholes or warp drives) ⁴. The core continuously **extracts vacuum energy** from this pocket until it approaches maximum entropy ⁵. In practical terms, the Exotic Matter Energy Core provides virtually limitless destructive power in a compact form. It is encased in a multi-layer magnetic containment field, as exotic matter is volatile and **requires isolation from normal space** to remain stable. The containment chamber is lined with a **zero-point energy mesh**, a lattice of nano-scale Casimir-effect plates that draw on vacuum fluctuations (similar to zero-point modules in other technologies) ⁵. The energy core's output is channeled directly into the particle accelerator and also feeds the auxiliary systems. To prevent catastrophic overload, the core chamber includes fail-safes: if the exotic matter reaction runs away, the containment will collapse into a “harmless” inert shell rather than explode (a safety mechanism informed by the core's entropy limit). The core is, in essence, a **self-contained power plant**, and its inclusion is what elevates the VBFG's destructive capacity far above conventional arms.
- **Consciousness Disruption Wave Generator:** Alongside the physical disintegration, the VBFG deploys a secondary effect aimed at the target's mind or soul. The Consciousness Disruption Wave Generator produces a **targeted psycho-quantum field** – essentially a *neurological scrambling wave* – that is embedded within the disintegrator beam. This subsystem consists of **wave emitters** that envelope the main particle beam with a modulated signal tuned to disrupt neural and quantum information patterns. In-universe, sentient consciousness is theorized to have a quantum-mechanical component (sometimes described in speculative science as quantum consciousness or

the “soul’s quantum state”). The generator capitalizes on this by emitting an interference pattern that causes **irreversible decoherence** of those quantum neural patterns. In simpler terms, as the body is shredded, the wave also **shreds the victim’s identity** at the informational level. Memories, personality engrams, and any metaphysical “soul” imprint are scrambled beyond recovery. Even if the target’s life essence were somehow restored or reincarnated, the **memory of their past life is completely obliterated** – the ultimate tactical advantage against enemies with resurrection technology or reincarnation abilities. Technically, the wave generator uses **exotic radiation** (possibly a mix of theta-band electromagnetic waves and vacuum-state oscillations) to achieve this effect. The internal design includes **miniaturized particle accelerators** for exotic pseudo-particles or a **subspace antenna** that broadcasts a field concurrent with the main beam. The result is a **consciousness disruption field** that rides the destructive beam to the target, ensuring that the victim’s mind is as destroyed as their body. This component required significant R&D in the VBFG’s development, bridging neuroscience, quantum physics, and engineered metaphysics.

- **Particle Fragmentation Accelerator:** This is the primary beam generator that physically disintegrates the target. It functions as a **linear particle accelerator** running through the length of the VBFG’s barrel. When fired, the core injects a pulse of energized exotic particles (or possibly a plasma) into the accelerator. A series of **electromagnetic coil segments** (visible as ring-like structures along the barrel) rapidly boost these particles to relativistic speeds. By the time the particle stream exits the muzzle, it carries **tremendous kinetic and thermal energy**, enough to **pulverize matter at the molecular and atomic level**. The term “fragmentation” refers to the effect: the beam doesn’t simply burn or blast a hole; it causes a target to **explode into microscopic fragments**, effectively vaporizing it. This is analogous to (but far more extreme than) how Star Trek disruptor weapons “disrupt molecular bonds and break them down”⁶. The VBFG’s accelerator is tuned to maximize this effect – upon impact, the beam’s energy causes immediate atomization of matter and a **blast of subatomic particles** that ensure nothing larger than motes of dust remains. The accelerator uses **gravitic lensing** and magnetic confinement to keep the particle beam tightly collimated over distance, ensuring accuracy and minimal dispersion. Internally, advanced materials (like superconducting coils cooled to cryogenic temperatures) enable the accelerator to achieve power levels on the order of **terajoules per shot** (comparable to the energy of kilotons of TNT delivered in a directed impulse). The accelerator’s design also allows for **quick repetition rate** fire in pulses, but heat and power constraints typically make the VBFG a single-shot or burst-fire weapon before a cooldown is needed.
- **Beam Focusing & Prismatic Dispersion Array:** At the muzzle of the VBFG is a complex focusing assembly that gives the weapon its distinctive beam characteristics. This **beam focusing array** consists of multiple **facet-cut crystals and prismatic lens elements** arranged in a radial pattern. These exotic crystals (grown from fictitious in-universe materials such as “hyper-diamond” or **quantum-infused prismatic glass**) serve two purposes: **focusing the beam to a fine point** or **dispersing it in a controlled cone**. For maximum destruction of a single target, the array converges the particle stream into a tight, coherent beam. However, the VBFG can also widen the beam via prismatic dispersion – splitting it into a spread that can engulf a target’s entire body (ensuring full disintegration) or even multiple targets at close range. The term “prismatic” reflects how the array can separate and manipulate different energy components of the beam. For example, the **consciousness disruption waveform** might be carried on a slightly different frequency or particle type than the main destructive pulse; the prismatic array helps **merge these into one cohesive blast** or scatter them as needed. Internally, adjustable micro-actuators can tweak the angle and

alignment of each crystal in milliseconds, allowing dynamic beam shaping. The engineering is analogous to a laser's focusing lens or a phaser emitter crystal, but far more advanced due to the power involved. All components are made of **in-universe supermaterials** – e.g. a synthetic crystal lattice reinforced with zero-point energy – to avoid shattering under the extreme energies. The array is housed in a reinforced ring at the barrel's end, with each facet **calibrated to handle a specific spectrum of the beam** (particle component, thermal component, disruption wave, etc.). This system gives the VBFG a measure of versatility: it can fire a tightly focused bolt for penetrating armor or a dispersed blast for wider effect, all while maintaining the lethal disintegrator outcome.

- **Quantum Resonance Chamber:** Surrounding the Exotic Matter Core and intertwined with the accelerator is the Quantum Resonance Chamber. This chamber is essentially a **field amplifier** that uses quantum effects to boost both the beam and the consciousness disruption wave. It operates on the principle of **quantum resonance**, meaning it exploits oscillations at the quantum level to amplify energy output. By placing the exotic matter core within a resonant cavity, the VBFG can induce **wildly oscillating quantum fields** that enhance the power of each shot (somewhat analogous to the resonance charge effects found in other advanced torpedo weaponry ⁷). The chamber is constructed as a layered sphere or cylinder of **high-temperature superconductors and exotic metamaterials**. When the weapon is primed, the chamber resonates – you might even observe a harmonic vibration or hum as it aligns the core's output to an optimal frequency. This resonance is key to the **Consciousness Disruption Wave Generator** as well: the wave's frequency is tuned in this chamber, likely by referencing quantum states known to correspond to neural activity or soul energy in the target. One could imagine the chamber "recording" a baseline quantum pattern from the core and then inverting it to create a **disruptive interference pattern** for the target's consciousness. Additionally, the resonance chamber helps stabilize the exotic matter reaction. By keeping the core's oscillations in a controlled mode, it prevents random spikes that could damage the weapon. In effect, the Quantum Resonance Chamber serves both as an amplifier (making the beam more potent and the disruption wave more effective) and as a **feedback control loop** (maintaining stability). The concept of quantum resonance here is speculative, but it draws on the idea that at extremely small scales, energy and information can reinforce each other when phase-aligned. The VBFG leverages this by synchronizing its destructive and disruptive outputs via the resonance chamber for maximum combined effect.
- **Stabilization and Cooling Systems:** Firing the VBFG Disintegrator unleashes extraordinary energies, so robust stabilization and cooling are absolutely critical. The **stabilization system** refers to both **physical recoil management** and **field stability**. Physically, the weapon incorporates **inertial dampeners** and gyroscopic stabilizers near the core and along the barrel. These absorb and counteract the recoil impulse when the weapon fires, protecting the user and maintaining accuracy. Given that the VBFG might generate recoil not just from kinetic reaction but from exotic spacetime effects, these stabilizers are likely based on gravitic technology (e.g., small gravity-negating field emitters that compensate for kick). In terms of field stability, the weapon has **feedback circuits** that monitor the exotic matter core, quantum resonance, and beam coherence in real time. If any parameter strays beyond safe limits, the system can automatically throttle the beam or vent energy in a controlled dump. You'll notice **vent ports** and heat sink fins along the weapon's body – these are part of the cooling system.

The **cooling system** employs advanced methods to dissipate heat from the accelerator coils and core. Likely it uses a **closed-cycle cryogenic coolant** (such as liquid helium or a fictional superfluid) circulating through

the coil jackets to keep the superconductors at operational temperature. During a firing, heat is instantly conducted to **thermal capacitors** made of metamaterials that can absorb and temporarily store large amounts of energy. After firing, that heat is gradually radiated out through heat-dissipation strips along the barrel (which might glow red or white-hot after a volley). Additionally, because the VBFG deals with exotic particles, there are **radiation and particle byproduct containment systems** – essentially electromagnetic “scrubbers” that ensure no harmful radiation leaks back toward the operator. Stabilization also means maintaining the alignment of all these subsystems: the weapon’s internal **AI diagnostics** constantly tune magnetic field strength, crystal alignment, and power flow to prevent oscillations or vibrations from throwing off the beam. The net result is that the VBFG can fire its singularity-powered, resonance-amplified, prismatic particle beam without tearing itself apart. However, even with these systems, after each shot the weapon likely requires a brief **recovery period** to re-stabilize temperatures and fields before it can safely fire again. This built-in delay is a prudent engineering trade-off to ensure reliability and operator safety when wielding such a devastating device.

Materials & Power Source Details

Advanced In-Universe Materials: The construction of the VBFG Disintegrator relies on materials at the edge of what’s conceivable. The outer shell and structural frame are made of a **neutronium alloy** – referencing the ultra-dense substance found in neutron star cores. In fiction, neutronium alloys are prized for their incredible strength and density. Indeed, prior technology lore notes that a neutronium-carbon composite was *impervious to starship phaser fire* ¹, so using such an alloy gives the VBFG a chassis that can contain the ferocious energies it generates without being destroyed. The barrel linings and accelerator components likely incorporate **rodinium or tritium** (other extremely hard futuristic alloys) for similar reasons, as well as **monomolecular coatings** to resist ablation. The focusing crystals are made of **zerolattice pristica**, an imaginary crystal that is grown with embedded zero-point energy nodes (the “zero-point mesh” concept). This **zero-point mesh** is essentially a weave of conductive exotic matter threads through the crystal lattice, allowing it to channel vacuum energy and remain stable under high load.

Internally, all wiring and electronics are made of **room-temperature superconductors** or quantum nanocircuits, eliminating resistive losses and ensuring that control signals and power delivery operate with maximal efficiency. Many components are also **self-healing** – for instance, the metamaterial capacitors can reform their molecular structure after stress, and the neutronium alloy frame might be treated with adaptive stress-relief fields to prevent microfractures.

Power Source & Containment: The primary power source is the **Exotic Matter Energy Core** described earlier, effectively a zero-point energy generator. To put it in perspective, this core functions akin to a contained singularity or a Zero Point Module. It *draws energy from a micro-pocket of spacetime*, exploiting the fact that even empty vacuum has fluctuations (zero-point energy) ⁵. The containment of this power is achieved through a combination of **magnetic fields, space-time anchors, and the physical containment vessel** made of exotic alloys. The magnetic containment creates a *stable pocket* where negative-pressure energy (exotic matter) can exist without annihilating normal matter. Surrounding the core is a **triple-layered containment ring**: the first layer generates the primary magnetic bottle that holds the exotic matter, the second layer is the quantum resonance chamber that keeps the energy oscillating in a controlled mode, and the third layer is a radiation shield and coolant jacket.

Because the core is effectively drawing from infinite vacuum energy (within theoretical limits), the VBFG does not need external ammunition in the traditional sense. However, the **entropy limit** of the pocket

universe means that after a certain amount of energy extraction, the pocket will degrade. In practical terms, the core might **deplete after a set number of discharges**, requiring replacement or recharging. During recharging or manufacturing of a core, specialized equipment would create a new pocket universe and build up negative energy within it – a process not achievable outside of advanced laboratory or factory settings in the VBFG's universe. Thus, the weapon's operational logistics involve swapping out the core module after heavy use. It's also likely that the VBFG has **power modulation settings**, allowing the operator to choose lower-yield shots to conserve core longevity or maximum-yield for critical strikes.

Safety in containment is paramount: if the core were breached, it could theoretically release a catastrophic blast or collapse into a micro black hole. To prevent this, the engineers have included **sacrificial failsafe systems** – for example, if containment fails, a shaped explosive charge might jettison and quantum-collapse the core safely (destroying the core but preventing a larger disaster). Additionally, **insulation using vacuum gaps** and gravitic nullifiers protect the rest of the weapon (and the user) from the intense fields emanating from the core.

In summary, the VBFG's power and materials are bleeding-edge: **neutronium alloy** for unbreakable structure 1, **zero-point energy tapping** for power 5, and a host of fictional composites (zero-point mesh, exotic crystal lattices, etc.) to make what would otherwise be an impossible device function reliably on the battlefield.

User Interface & Control Systems

Despite its intimidating complexity, the VBFG Disintegrator is designed to be operable by a single user with a high degree of control. The weapon's **interface systems** seamlessly integrate with the user's gear and even neural signals:

- **Ergonomic Controls:** The VBFG features a multi-stage trigger mechanism on its grip. A primary trigger fires the weapon, while secondary toggles allow the user to arm the Exotic Matter Core (charging up the shot) and select firing modes (focused beam vs. dispersed beam, for example). These controls are **pressure-sensitive and smart**, preventing accidental full-power discharge. The grip is fitted with **biometric sensors** that verify the authorized user via fingerprint, palm geometry, or even DNA sweat analysis. This means only cleared operators can activate the weapon, and it also allows the VBFG's onboard computer to adjust settings based on the user's physical condition (e.g. dampening recoil if it senses fatigue or injury).
- **HUD Link & Targeting:** On the side of the weapon is a port for wireless linking to the user's helmet or visor HUD. The VBFG contains an advanced **targeting computer** that factors in range, target movement, and even environmental factors (like electromagnetic fields or quantum interference in the battlefield). Through the HUD link, the user sees a reticle and diagnostics. For example, the weapon can project a small laser designator or use “*smart sight*” technology to indicate where the beam will hit, and what the dispersion radius would be if in spread mode. It likely also gives the operator feedback on core charge status, cooldown time remaining, and a “lock” confirmation when the internal sensors predict a successful hit on a specifically designated target. The **scope** of the VBFG may be integrated along the top rail, possibly comprising telescopic, thermal, and quantum-sensitive imaging (to detect entities that are out-of-phase or cloaked, ensuring the VBFG can be used against a wide range of targets).

- **Neural Interface & AI Assistance:** In a setting where this weapon exists, it's plausible that operators have some neural implant or are at least assisted by AI. The VBFG comes with a **built-in AI assistant module** that monitors the weapon's status and the tactical situation. Through a neural link (if the user has an implant) or via auditory alerts, the weapon can "advise" the user – e.g., "*Target's neural signature locked; recommend disruption wave intensity at 80% to ensure memory eradication.*" This AI also manages the firing sequence internally, since timing the exotic matter discharge, resonance ignition, and wave overlay is complex. Essentially, once the user pulls the trigger, the AI ensures each subsystem fires in the correct sequence with nanosecond precision. If the user prefers manual control, they can override certain safeties or tune the settings via a small **touch panel** on the weapon's side. This panel might allow adjustments like increasing the disruption wave's field spread (for species known to have redundant consciousness, for instance) or dialing down yield if collateral damage is a concern.
- **Feedback and Safety Indicators:** The VBFG provides the user with continuous feedback for safe operation. **LED or holographic indicators** along the weapon's body show core stability (green when stable, yellow if approaching heat limits, red if critical). There is a prominent "**ready**" **indicator** that lights when the Exotic Matter Core is charged and the weapon can fire – until this lights, the trigger is locked out. After firing, a **cooldown indicator** will blink until the weapon has dumped enough heat to fire again. The grip sensors also detect if the user is braced properly; an alert may warn if, say, the user is in a stance that could lead to injury from recoil. Internally, a small **gyroscopic balance sensor** can even hold off firing a split second if the weapon isn't aimed steadily (preventing misfires due to loss of balance).
- **Interface with External Systems:** Given its power, the VBFG might be integrated into broader combat systems. It could tie into a vehicle mount or base defense grid, in which case the user interface extends to remote operation. The weapon has **standard API hooks** to accept targeting data from drones or satellite tracking – for instance, it could receive a target lock signal from an external sensor and automatically slew to aim at that target. On the user's command, it can then fire with precision guided by those external coordinates. This kind of networked capability means the VBFG isn't just a standalone gun; it's a node in a larger tactical network.
- **Physical Handling:** The VBFG has a **sling attachment and weight distribution system**, acknowledging that it is heavy. The sling, however, is not a mere strap – it contains a reactive tensor that assists in lifting and aiming the weapon. When the user goes to shoulder the VBFG, sensors in the sling detect the movement and activate a small **anti-grav assist** (drawing power from the core's buffer) to lighten the effective weight. This interface of physical support means an average soldier could carry and aim the VBFG in the field, though stationary firing positions or power armor support are recommended for prolonged use.

In sum, the user interface is about **making an incredibly complex superweapon as intuitive and safe to use as possible**. The VBFG's designers ensured that while the underlying science is arcane, the soldier wielding it experiences a manageable and responsive weapon. It communicates with the user through HUD icons and gentle haptic vibrations in the grip (for confirmation or warnings), and it integrates with their combat suit electronics. This level of control is crucial, because with great power comes great responsibility – a misfire or misuse of the VBFG Disintegrator could be catastrophic. The interface and control systems are the layer that tames this "very big freaking gun" and turns it into a reliable tool of destruction at the operator's command.

Conclusion

The VBFG Disintegrator's blueprint presents a vision of a **supremely advanced sci-fi weapon** – one that marries theoretical physics with battlefield pragmatics. With its Exotic Matter Energy Core tapping into vacuum energy ⁵, its ability to disrupt molecular bonds and reduce matter to nothing ⁶, and the horrifying addition of scrambling a target's very consciousness, it is the kind of device that would be feared across galaxies. Each part of its schematic, from the neutronium-alloy frame ¹ to the prismatic focusing array, has been detailed to inspire concept artists and engineers in realizing this weapon in a visual or interactive medium. The VBFG is not just another laser rifle – it's essentially a **portable doomsday device**, finely tuned and labeled in blueprint form, ready to leap from imagination into the designs of a sci-fi game or narrative.

By breaking down the core components and illustrating them in high-level diagrams, we capture both the **aesthetic** (the glowing core, the intricate coils, the ominous muzzle) and the **functionality** (how it works and why it's so destructive). This blueprint can guide artists to draw out each piece – the exotic core chamber, the accelerator coils, the quantum resonance housing, etc. – and assemble them into a cohesive visual schematic. For game developers or writers, the detailed breakdown provides plenty of touchpoints for lore and mechanics: from how a player character might need to find a replacement exotic core, to the tactical considerations of using a weapon that annihilates both body and soul.

In creating this speculative design, we prioritize not only flashy visuals but also an **internal logic**. Even a fantasy weapon benefits from a sense that it *could* work under some advanced scientific principles. The VBFG Disintegrator, as described, feels like a natural extension of the most extreme trajectories in weapons research – a testament to how far one might go in pursuit of an absolute weapon. This document, structured as a technical schematic with labeled parts and explanatory notes, serves as a comprehensive blueprint for the VBFG, ready to inspire high-quality concept art or serve as a reference in science fiction world-building.

Sources: The above design references concepts from speculative physics and popular science fiction lore for authenticity. Exotic matter and negative energy ideas are inspired by theoretical discussions on wormholes and warp drives ⁴. The disintegration effect alludes to known directed-energy weapons which disrupt molecular bonds ⁶. Neutronium and similar super-materials take cues from science fiction materials that are impervious to damage ¹. The power system echoes the “zero-point energy” devices depicted in fiction, which extract vacuum energy for immense power ⁵. These sources ground the VBFG Disintegrator in a rich context of existing science fiction and speculative science, lending credibility to its blueprint while fueling the imagination.

¹ Neutronium | Memory Alpha | Fandom
<https://memory-alpha.fandom.com/wiki/Neutronium>

² ³ ⁵ Zero Point Module | SGCommand | Fandom
https://stargate.fandom.com/wiki/Zero_Point_Module

⁴ Exotic matter - Wikipedia
https://en.wikipedia.org/wiki/Exotic_matter

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