

# *Acronyms and Abbreviations*

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## **H**

HA Humanitarian Assistance (*e.g.*, special operations)

HA/DR Humanitarian Assistance/Disaster Relief

HAA High Altitude Airship

HAARP High-Frequency Active Auroral Research Program

HAAWC High-Altitude Antisubmarine Weapon Capability (*e.g.*, a GPS-equipped sonobuoy deployable from high altitudes *ca* 2016)

HAB Heavy Assault Bridge

HABE High-Altitude Balloon Experiment

HACMS High-Assurance Military Systems

HACT Helicopter Active Control Technology

HAD Hole Accumulated Diode

HADR Humanitarian Assistance/Disaster Relief

HAE High Altitude Endurance (*e.g.*, HAE UAV); Host Application Equipment

HAHO High Altitude-High Opening (*e.g.*, parachute jump)

HAIL HydroAcoustic Information Link (Australia - a possible text-based replacement for the underwater telephone [2003])

HAIPE High Assurance Internet Protocol Encryptor

HAIPIIS High Assurance Internet Protocol Interoperability Specification

HAL Hardware Abstraction Layer

HALE High Altitude, Long Endurance (Aircraft or UAV)

HALLTS Hailing Acoustic Laser and Light Tactical System (non-lethal)

weapon)

HALO Hostile Artillery Locator; High Altitude Long Operations (communications aircraft); High-Altitude Low-Opening (*e.g.*, parachute jump)

HALTT Helicopter Alert and Threat Termination (DARPA - ca 2010)

HALWR High-Accuracy Laser Warning Receiver

HANAA Handheld Advanced Nucleic Acid Analyzer (*e.g.*, to detect harmful biological agents)

HAPLS High-repetition-rate Advanced Petawatt Laser System (Czech Republic *ca* 2013. NOTE: Petawatt =  $10^{15}$  watts, or a quadrillion watts)

HARD Helicopter and Airplane Radar Detection (system)

HARE Hazard Avoidance Reconnaissance Extender (unmanned ground vehicle)

HARLID High Angular Resolution Laser Irradiance Detector

HARM High Speed Anti-Radiation Missile

HARP Helicopter Active RPG Protection (USN program *ca* 2014)

HARPVSS Homing Anti-radiation Remotely Piloted Vehicle Sensing System

HART Hornet Autonomous Real-time Targeting

HARTS Hardened Artillery Site

HAS Helicopter/Air/Surface

HAW Homing All the Way; Heavy Anti-armor Weapon

HAWK Homing All the Way Killer

HAX Haystack Auxiliary radar

HAZLOC Hazardous Location (*e.g.*, location with hazardous environment)

HB Hairy Buffalo (an "Orion" NP-3 aircraft especially configured as an NCW test-bed)

HBM Human Behavior Modeling

HBMRM High-Band Multifunction Receive System

HBSS High-Band Subsystem (ELINT); Host Based Security System (U.S. Army ca 2010)

HBT Heterojunction Bipolar Transistor

HC Hard Copy; Helicopter Combat (*e.g.*, HC squadron)

HCCC Harbormaster Command and Control Center

HCDE Human-Centered Design Environment

HCDR High Capacity Data Radio

HCI Human Computer Interaction; Human Computer Interface

HCLOS High-Capacity Line-Of-Sight (Army radio)

HCM Hypersonic Cruise Missile

HCO Human Capital Objects (*e.g.*, work and workplace requirements for workers)

HCOT Helicopter Control Officer Trainer (Navy)

HCS Helicopter Combat System; Harbor and Coastal Security

HCTR High-Capacity Trunk Radio

HCV Hypersonic Cruise Vehicle (able to deliver a 12,000 lb. strike payload within two hours from CONUS to any point on globe)

HD High Demand

HD/HS Homeland Defense/Homeland Security

HD/LD High Demand/Low Density (*e.g.*, assets)

HDAM HARM Destruction [of Enemy Air Defense] Attack Module; HARM DEAD Attack Module

HDBTDC Hard and/or Deeply Buried Target Defeat Capability (program - *circa* 2001)

HDD Head-Down Display; Hard-Disk Drive

HDESS High Density Signal Simulator (Denmark)

HDIR High-Definition Infrared

HDL Hardware Description Language; Hardware Design Language

HDLC Light Level Data Link Control

HD/LD High Demand/Low Density (*e.g.*, assets)

HDMS High Density Memory System

HDPS High Density Power Supply

HDR High Data Rate; Hard-Disk Recorder

HDR LOS High Data Rate Line of Sight (*e.g.*, digital radio)

HDS Hardware Design System; High Definition System; Holographic Diffraction Sight

HDSL High-bit-rate Digital Subscriber Line

HDSS Holographic Data Storage System

HDTV High Definition Television

HDX Half Duplex

HE High Explosive; High Energy

HEaDS-UP Helmet Electronics and Digital System - Upgradable Production

HEAT High Explosive Anti-Tank (shaped-charge warhead); HMMWV Egress Assistance Trainer

HED High Energy Density; Hybrid Electric Drive (*e.g.*, for combat vehicles)

HEDI High Endo-atmospheric Defense Interceptor

HEDLight High Efficiency Distributed Lighting

HEDM High Energy Density Material

HEDS Human Exploration and Development of Space (NASA)

HEED Helicopter Emergency Escape Device

HEETE Highly Efficient Embedded Turbine Engine (program *ca* 2006)

HEL High Energy Laser

HELDT High-Energy Laser Technology Demonstration

HELLADS High Energy Liquid Laser Area Defense System (DARPA program *ca* 2003 for a reduced cost and weight High Energy Laser weapon system; *e.g.*, the goal is less than five kilograms per kilowatt, for use by tactical aircraft and unmanned air vehicles.)

HELLO High Energy Laser Light Opportunity (SSDC Program)

HELO Helicopter

HELASER Highly Expeditionary Long-Range Air-Surveillance Radar (to replace the USMC TPS-59 in 2008)

HELS High Energy Laser System

HELWEP High Energy Laser Weapon

HELWEPS High Energy Laser Weapon System (also HELWS)

HELWS High Energy Laser Weapon System (also HELWEPS)

HEMP High-altitude Electromagnetic Pulse

HEMT High Electron Mobility Transistor

HEMTT Heavy Expanded Mobility Tactical Truck (an off-road vehicle)

HEND High-Energy Neutron Detector

HEO Highly Elliptical Orbit

HEP High Explosive Plastic (*e.g.*, used in 165mm demolition projectiles)

HERA High Energy Research and Applications

HERCULES Heavy Equipment Recovery Combat Utility Lift and Evacuation System (for hoisting, winching & towing disabled equipment)

HERETIC HEat REMoval by Thermo-Integrated Circuits

HERF High Energy Radio Frequency (weapon); Hazards of Electromagnetic Radiation to Fuel

HERMES Hyper-wideband Enabled RF Messaging (DARPA program *ca* 2014)

HERMiT Harsh Environment Robust Micromechanical Technology

HERO Hazards of Electromagnetic Radiation to Ordnance

HERP Hazards of Electromagnetic Radiation to Personnel

HERTI High Endurance Rapid Technology Insertion (U.K.)

HET HUMINT Exploitation Team; Heavy Equipment Transporter

HEU Highly Enriched Uranium

HEWS Helicopter Electronic Warfare System; Helicopter Electronic Warfare Suite

HEWSPS Helicopter Electronic Warfare Self-Protection Suite

HF High Frequency (3 - 30 MHz); Hydrogen Fluoride (laser)

HFAARS High Frequency Adaptive Antenna Receiving System

HFAJ High Frequency Anti-Jam

HFCVD Hot Filament Chemical Vapor Deposition (used to deposit nanolayers of Teflon)

HFDF High Frequency Direction Finding (see also HUFF-DUFF)

HF/DF Hydrogen Fluoride/Deuterium Fluoride (laser); High Frequency Direction Finding (see also HUFF-DUFF)

HFDM High-Frequency Digital Modem

HFGeo High Frequency Geolocation (IARPA program *ca* 2013)

HFI Hostile Fire Indication

HFIP High-Frequency Internet Protocol

HFLRI High-Frequency Limited Range Intercept

HFMS High-Frequency Motion Simulator

HFO High-Frequency Oscillator

HFRG High-Frequency Radio Group (*e.g.*, HF Broadband system permitting reduction in quantity of HF antennas)

HFR High-Frequency Receive (*e.g.*, site)

HFSWR High-Frequency Surface-Wave Radar (See HIFAR)

HFT High-Frequency Transmit (*e.g.*, site)

HFTA High-Frequency Towed Array

HGHS High-Gain (antenna) / High Sensitivity (receiver)

HH Hedgehog; Hand Held (*e.g.*, radio)

HHA High Hardness Armor

HHELS Hybrid High Energy Laser System

HHICCS Handheld Information Command Control System

HHR High Hop Rate

HI-MEMS Hybrid Insect Microelectromechanical System (DARPA program ca 2007)

HIAT Helicopter Internal Air Transport

HIC High Intensity Conflict; High-Information Content (display)

HICO Hyperspectral Imager for the Coastal Ocean (NASA)

HID Human Interface Device; High Intensity Discharge (*e.g.*, light)

HIDAR High data rate

HIDAS Helicopter Integrated Defensive Aids System (U.K.); Helicopter Integrated Defensive Aids Suite (U.K.)

HIDE Human Infrastructure Detection and Exploitation

HIDESS High-Density EW Simulator; High-Density Signal Simulation

(system – Denmark)

HIDRAH Hand-held Integrated Directional Receiver and Homing System (for the "electronically-enhanced soldier")

HIFAR High-Frequency surface wave Array Radar

HIIDE Handheld Interagency Identity Detection Device; Handheld Interagency Identity Detection Equipment

HIL Hardware In the Loop; High-Intensity Lighting

HILAST High Altitude Large Area Surveillance Tactic (for locating submarines using sonobuoys)

HIMAD High to Medium Altitude Air Defense

HIMARS High-mobility artillery rocket system

HI-MEMS Hybrid Insect Microelectromechanical System (DARPA program *ca* 2007)

HIO High Interest Object

HIPCOR HIgh Power COherent Radar

HiPERDAC High-Power Efficient RF Digital-to-Analog Converter

HiPOFA High PayOff Focus Area

HIPOT High Potential

HIPPA Health Insurance Portability and Accountability Act

HIPPI High Performance Parallel Interface

HI-QUAMS HIgh QUantity Anti-Material Submunition

HIRES High Resolution (*e.g.*, radar)

HIRF High Intensity Radiated Field; High Intensity Radio Frequency

HIT High-Interest Track; High Impulse Thermobaric Weapon

HITL Hardware-In-The-Loop

HITP High Ignition Temperature Propellant (reduces probability of "cook-



offs" in chamberless weapons such as the H&K G11 battle rifle)

HITRON Helicopter Interdiction Tactical squadron

HITS Hunter Integrated Threat System (U.K. *ca* 2012)

HiVOLT High Voltage (*i.e.*, as used in the Radiation Belt Remediation system)

HKCM Hard Kill Counter Measures (*e.g.*, US Army program *ca* 2014)

HKST Hunter-Killer Standoff Team

HLA High-Level Architecture; Higher-Level Architecture

HLCS Harpoon Launch Control System

HLD Head-Level Display (generally below the HUD and above the main control display on fighters)

HLDA High-Level Design Automation

HLL High-Level Language

HLM High Leverage Munition

HLONS Humvee Laser Ordnance Neutralization System

HLR Home Location Register (part of COPS); Heavy Lift Replacement (*e.g.*, helicopter *circa* 2005)

HLS Helicopter Landing System

HLVW Heavy Logistics Vehicle Wheeled (Unarmoured trucks *ca* late 1980s - U.K.)

HLZ Helicopter Landing Zone

HM Helicopter Mine-countermeasures

HM&E Hull, Mechanical & Electric (also HME)

HMARS High-Mobility Artillery Rocket System

HMD Helmet-Mounted Display; Head-Mounted Display; Helmet Mounted Device

HMDS Husky Mounted Detection System

HME Hull, Mechanical & Electric (also HM&E)

HMI Human-Machine Interface

HMLA Light Attack Helicopter (USMC *ca* 2010)

HMMS Helmet-Mounted Mobility Sensor

HMMWV High Mobility Multipurpose Wheeled Vehicle ("Hummer", or "Humvee")

HMOSP Helicopter Multimission Optronic Stabilized Payload

HMP Helicopter Master Plan (U. S. Navy)

HMS Harbor Management and Security; Handheld Manpack and Small [ form fit ]

HMDS Husky Mine Detection System (*e.g.*, system for the Husky combat vehicle – *ca* 2010)

HNIR Host Nation Information Requirements (NATO)

HNR Highband Networking Radio

HNV Holographic Night Vision

HNVG Holographic Night Vision Goggles

HNVS Helicopter Night-Vision System

HOAP Humanoid for Open Architecture Platform (Japan - strolling humanoid robot)

HOB Height Of Burst (*e.g.*, fuze guidance)

HOBS High Off-Boresight System

HOE Holographic Optical Element

HOIS Hostile Intelligence Service

HOJ Home-On-Jam

HOL High-Order Language

HOLAS Hands On Collective And Stick (*e.g.*, system for helicopters)

HOLC High-Order Language Computer

HOMS HELLFIRE Optimized Missile System

HOOAH - Not an acronym but a slang term used by soldiers - See HOOAH in the definitions.

HORIZON *Helicoptère d'Observation Radar au d'Investigation de ZONE*  
(French airborne sensor platform)

HOS Hostile

HOTAS Hands-On-Throttle-And-Stick

HOTTS Harpoon Operator/Team Training System

HOV-LANE Hypertext On-line Virtual Library for Acquisition News & Electronic information

HP Hand-held Photo

HPA High-Power Amplifier; Human Performance Augmentation (*e.g.*, a wearable biosensor to track a soldier's health *ca* 2014))

HPAS High-Pressure Air System (ship)

HPC High Performance Computing

HPCC High-Precision Contour Control

HPCG High Performance Conjugate Gradient (*e.g.* supercomputer benchmark)

HPCM High-Power Countermeasures

HPCMP High Performance Computing Modernization Program (DoD)

HPCS High Performance Computing System; High Productivity Computing System

HPD High-Power-Discriminator (radar); High-Performance Drive (*e.g.*, gas turbine)

HPEM High Power Electro Magnetic (*e.g.*, weapon)

HPFL High Power Fiber Laser

HPFOTD High-Power Fiber Optic Towed Decoy

HPGTE High Power Ground Threat Emitter

HPI High Probability-of-Intercept

HPKB High Performance Knowledge Base

HPM High-Powered Microwaves; Hierarchical Permanent Memory

HPMTESLA High Power Microwave Technological Electromagnetic Laboratory Application (program)

HPOI High Probability-Of-Intercept

HPRF High Pulse Repetition Frequency; High Power Radio Frequency

HPRT High Power Remote Transmitter

HPS Hops Per Second (*e.g.*, frequency hopping)

HPTL High Payoff Target List

HPVI Hypervelocity Impact

HQ Headquarters

HR Horn Reflector (antenna)

HR High Resolution (imaging)

HRA High Resolution Array

HRDS High Resolution Display System

HREP HICO Remote Atmospheric and Ionospheric Detection System [RAIDS] Experiment Payload (NASA ca 2009)

HRF Homeland Response Force

HRR High Range Resolution; High-resolution Rotocraft Radar; High Resolution Radar

HRSAR High Resolution Synthetic Aperture Radar

HS High Speed; HAVE STARE (radar)

HS/HD Homeland Security/Homeland Defense

HSA High Speed Amphibian

HSARPA Homeland Security Advanced Research Projects Agency

HSBCA High Speed Buoyant Cable Antenna

HSC Helicopter Sea Combat (*e.g.*, HSC squadron)

HSCLCS Harpoon Ship Command Launch Control System

HSCT High Speed Civil Transport

HSD High Speed Data; Horizontal Situation Display (*e.g.*, aircraft EW system)

HSDPA High Speed Downlink Packet Access

HSFB High Speed Fleet Broadcast

HSI Human Systems Integration; Hyper-Spectral Imagery; Horizontal Situation Indicator

HSKT Hunter Standoff Killer Team

HSL Helicopter Sling Loading

HSOK Hunter/Standoff Killer

HSPD Homeland Security Presidential Directive

HSS Hunter Sensor Suite; Hyperspectral System

HSSDB High Speed Serial Data Bus

HSSR High-Speed Solid State Recorder (new version of the SSD)

HSTAMIDS Helicopter STAnd-off MIne Detection System; Handheld STAnd-off MIne Detection System

HSV High Speed Vessel

HTD Hard Target Defeat (program)

HTI Horizontal Technology Integration; Horizontal Technology Insertion; High Temperature Incendiary

HTID Threat Identification at a Distance (*e.g.*, DARPA program, *ca* 2003, for automated biometric identification technologies to detect, recognize, and identify humans at great distances. A biometric technology is a method for identifying an individual from his face, fingerprints, or the way he walks.)

HTISGF Horizontal Technology Integration Second Generation FLIR

HTK Hit To Kill

HTL High-level Transistor Logic

HTM High Temperature Ship (*e.g.*, 3.5 megawatt electric motor); Hierarchical Temporal Memory

HTML HyperText Markup Language

HTP High-Test Peroxide (thermal fuel to achieve high speed in torpedoes - in use since *circa* 1957)

HTS HARM Targeting System; High-Temperature Superconductor; High Tensile Strength

HTSC High -Temperature Superconductor; High-Temperature Superconductivity

HTSF Hard Target Smart Fuze

HTT High-Temperature Transistor

HTTP HyperText Transfer Protocol

HTTPS HyperText Transport Protocol Secure

HTU Hand-held Terminal Unit

HTV Hypersonic Test Vehicle

HUAV Hovering Autonomous Underwater Vehicle (*e.g.*, security system to inspect ship hulls) [ *ca* 2007 ]

HUD Head-Up Display

HUFF-DUFF A World War II (*circa* 1941) system for automatic direction

finding of U-boat radio transmissions (from HF/DF - High Frequency Direction Finding)

HUG Hornet UpGrade (Australia)

HUGIN Not an acronym, but a system named after one of the Norse god Odin's two information-gathering ravens.

HULA Hybrid Ultra-Large Aircraft

HULC Human Universal Load Carrier (*e.g.*, robotic exoskeleton to reduce weight of the loads troops have to carry - ca 2010)

HULS Hull Unmanned Underwater Vehicle Localization System (*e.g.*, ONR program ca 2011)

HULTEC Hull-to-Emitter Correlation

HUMINT Human Intelligence

HUMMER Not an acronym, but jargon for HMMWV [ also called "HUMVEE" ]

HUMP Hydration Utility Multiple Platform (*e.g.*, attachment for back-mounted hydration systems to load bearing equipment (including ALICE). Holds 50, 70 and 100 oz. bladders, and can double as an additional cargo storage pocket. (View photo of HUMP)

HUMRAAM HMMWV-mounted air intercept missile (system)

HUP Horizon Ultraviolet Program; HARM Upgrade Program

HURT Heterogeneous Urban RSTA (Reconnaissance, Search, Track & Acquisition) Team; Heterogeneous Urban Reconnaissance, Surveillance and Target Acquisition.

HV High Voltage

HVAC High VACuum; Heating, Ventilation and Air-Conditioning

HVDC High Voltage Direct Current

HVG Hypervelocity Gun

HVI High Value Individual

HVL High-level Verification Language (used in digital hardware design)

HVM High Velocity Missile (*e.g.*, the U.K. STARSTREAK)

HVP Hypervelocity Projectile; High Voltage Power

HVPS High Voltage Power Supply

HVT High Value Target

HVU High Value Unit

HW Half Wave; Heavy Water

HWCI Hardware Configuration Item

HWIC High-speed WAN Interface Card (*e.g.*, for TCKs)

HWIL Hardware in the Loop

HWITL Hardware in the Loop

HWS Holographic Weapon Sight

HWT Heavyweight Torpedo

HWTS Heavy Weapons Thermal Sight

HYCAS Hyperspectral Collection and Analysis System

HYCAUSE Hypersonic Collaborative Australian/United States Experiment (*e.g.*, scramjet project *ca* 2004)

HYDRA Hierarchical Yet Dynamically Reprogrammable Architecture

HyFly Hypersonic Flight

HYPERION Hypermedia Intelligence Organization and Navigation

Hz Hertz (formerly "cps" for cycles-per-second)