

December 2015 Fleet Upgrade & Replacement Catalog

Flight Global: F-35 aircraft equip w/ AGM-154 Joint Stand-Off Weapons [JSOW] designed to attack fixed & moving land & maritime targets

Defense News: MC-27J multi-mission cargo lift & gunship aircraft equip w/ electro-optic sensors, side-mount GAU-23 30mm cannon & PG munition

Defense News: PPA Multi-purpose Offshore Patrol Ships equip w/ fixed-array radars, 3D acoustic imaging sonar array, missiles & EW system

Diplomat: F-35 aircraft equip w/ 5th-gen long-range, precision-guided, stand-off Joint Strike Missile [JSM] for ASuW & fire support missions

Defense News: C-130 aircraft equip w/ submarine-hunting torpedoes, sonobuoys, life rafts & advanced Electro-Optical Infrared [EO/IR] sensors

Defcon: EA-18G Growler aircraft equip w/ Next Generation Jammer [NGJ] feature solid state electronics replace AN/ALQ-99 jamming pods

USNI: EA-18G Growler aircraft equip w/ AN/ALQ-227/Communications Countermeasures Set [CCS] using Frequency Difference of Arrival [FDOA]

Flight Global: B-52 aircraft equip w/ extended-range Joint Air-to-Surface Standoff Weapon [JASSM] & derivative of AGM-86 cruise missile

Flight Global: H145M helicopter equip w/ M134 7.62mm mini-guns, MAG 58 door guns, axially-configured 12.7mm guns & unguided rockets

Defense News: F-16s equip w/ Joint helmet-mounted cueing systems [JHMCS], AN/APX-126 IFF interrogator/transponders & 92 Link-16 terminals

Defcon: P-8 Poseidon aircraft equip w/ modular sensor pod for electronic intelligence [ELINT] capability & Rivet Joint SIGINT platform

Defcon: P-8 Poseidon aircraft equip w/ Advanced Airborne Sensor [AAS] electronically scanned array [AESA] radar system for maritime ISR&T

Defcon: RQ-4 Global Hawk Block 40 aircraft equip w/ AESA radar to provide Synthetic Aperture Radar for air surveillance of cruise missiles

Flight Global: F/A-18E/F aircraft equip w/ Long-Range Anti-Ship Missile [LRASM] based on Joint Air-to-Surface Standoff Missile [JASSM] tech

Defense News: CH-47F Chinook helicopter equip w/ Blue Force Tracking [BFT] system, [CMWS], H-764 Embedded GPS/INS & IR Signature Suppression

HeliHub: AH-1Z Cobra attack helicopter equip w/ Target Sight System provide passive target for Hellfire missiles & laser-designate capable

IHS4: Maritime Surveillance Aircraft [MSA] equip w/ Seaspray7300 active electronic scan array [AESA] synthetic aperture radar & EO/IR turret

Defcon: Ground-Launched Small Diameter Bomb [GLSDB] guidance section provide anti-jam capable, anti-spoofing module [SAASM] & ACP 2 module

Defcon: Long-Range Ground-Launched Small Diameter Bomb [GLSDB] combines SDB I air-launched weapon & M26 ground-based rocket motor capability

Marine Corps Times: Shoulder-launched Multipurpose Assault Weapon [SMAW] fire 83mm Dual Purpose [HEDP], Anti-Armour [HEAA] & SMAW-NE rockets

November 2015 Fleet Upgrade & Replacement Catalog

Defcon: MQ-9 Reaper aircraft equip w/ GBU-38, GBU-54 laser JDAMs, Hellfire M34 Dummy Missiles, GBU-49 Laser Guided Bombs & M-299 launcher

Defcon: MQ-9 Reaper aircraft equip w/ Hellfire II AGM-114R2 & Hellfire II M36-E8 Captive Air Train Missiles [CATM] & GBU-12 Laser Guide Bomb

Defense News: M1A1 Abrams tank equip w/ M256 Armament Systems, M2 .50-caliber machine gun, M240 7.62mm machine gun & 120mm test cartridges

Flight Global: Hawk aircraft equip w/ air-to-air, air-to-surface missiles, PG bombs/rockets & centerline pylon-mounted laser designation pod

Flight Global: Archangel aircraft equip w/ laser-guided bombs, countermeasures dispense system, anti-tank missiles & electro-optical sensor

Defense News: F-15 aircraft equip w/ Sniper Advanced Targeting Pods for air-ground & air-air targeting, LANTIRN ER navigation pods & IRST

Flight Global: Tornado aircraft equip w/ ELT/568 escort jammer pod feature solid-state transmitter/receiver & active phased array antennas

Defense News: J-31 aircraft equip w/ advanced radar, high maneuvering capable, multi-spectrum low-observable, SDB, guided & unguided weapons

IHS4: Erieye Swing Role Surveillance System [SRSS] feature EW suite include countermeasures dispensing & IFF subsystems, C2 capabilities

IHS4: Erieye Swing Role Surveillance [SRSS] is combined AWACS [Airborne Warning & Control], JSTARS [Joint Surveillance Target Attack Radar]

Flight Global: Predator XP aircraft equip w/ high-resolution synthetic aperture radar, laser designator & range finder, EO/IR sensor turret

Defense News: Typhoon aircraft equip w/ Paveway IV PG munitions, Storm Shadow cruise missile integrate Meteor beyond visual air-air missile

USNI: MH-53E helicopters tow AN/AQS-24B side scan sonar feature High Speed Synthetic Aperture arrays w/ laser detect for mine-hunting ops

Defcon: Short-range, Solid-propellant Guided multiple-launch rocket [GMLRS] fired from M270A1 MLRS & M142 high-mobility artillery launcher

Defense News: Tejas Light Combat Aircraft [LCA] equip w/ self-protect jammer, active electronic scan array [AESA] radar & air-to-air refuel

IHS4: Type 052D Destroyer equip w/ phased array radar, VLS for long-range surface-to-air, surface-to-surface, anti-sub & land-attack ops

IHS4: Global Hawk UAV equip w/ AN/ZPY-2 radar feature X-Band active electronic scan array [AESA] sensor & synthetic aperture radar [SAR]

October 2015 Fleet Upgrade & Replacement Catalog

IHS4: Type 26 Combat Ship [GCS] equip w/ MIFS Integrated Gunnery System [IGS] include Mk 45 Mod 4 5in/62 calibre gun & fire control system

Defcon: DDG-51 destroyers equip w/ Integrated Air & Missile Defense [IAMD], Fire Control-Counter Air [NIFC-CA] & SM-6 Surface-Air Missiles

Defense News: F-15 C2040 aircraft equip w/ IR Search & Track [IRST] sensor, Eagle Passive/Active Warning Survivability [EPAWSS] & AESA radar

Defense News: Typhoon aircraft equip w/ Brimstone 2 missile, Meteor air-to-air missile, Storm Shadow cruise missiles & Paveway IV munitions

Flight Global: Hero Rotary UAV equip w/ active electronically-scan array radar, electro-optical/IR sensor & electronic support measures

Defense News: LCS equip w/ TRS-3D radar, SM-2 Standard surface-air missiles, Mark 41 vertical launch system & fire control illuminator radar

Flight Global: Wing Loong II UAV equip w/ laser-guided missiles & bombs, electronic recon, electronic countermeasures & communications relay

Flight Global: Wing Loong II UAV equip w/ electro-optical sensor/targeting system, synthetic aperture radar [SAR] & radar warning equipment

Defense News: Ground/Air Task Oriented Radar [G/ATOR] track fixed-wing, rotor-wing, cruise missile, counter-rocket artillery & mortar rounds

USNI: Ford-class aircraft carrier equip w/ Dual Band Radar [DBR], Advanced Arresting Gear [AAG] & Electromagnetic Launch system [EMALS]

IHS4: LCS equip w/ RIM-116 Rolling Airframe Missile [RAM] on SeaRAM Anti-Ship Missile System engage manoeuvring supersonic & subsonic threat

Flight Global: MQ-9 Guardian UAS equip w/ Seaspray 7500E active electronic scan array radar [AESA] & dual-mode Brimstone air-surface missile

USNI: CG Guided missile cruiser equip w/ AEGIS system, AN/SQQ-89A[V]-15 anti-sub warfare [ASW] suite with multi-function towed array [MFTA]

USNI: CG Guided missile cruiser equip w/ Integrated fire control-counter air [NIFC-CA], SPQ-9B multipurpose radar & electro-optical sight

September 2015 Fleet Upgrade & Replacement Catalog

Flight Global: F-15SA aircraft equip w/ Eagle Passive Active Warning System [EPAWSS] replace ALQ-135 tactical electronic warfare suite

Defense News: MQ-9 Reaper UAS equip w/ GPS/Inertial Guidance, Multi-Spectral Targeting Systems & Lynx AN/APY-8 Synthetic Aperture Radar

IHS4: Mi-2MSB-W helicopter equip w/ 80mm rockets, machine guns, auto grenade launch in defence of man-portable air defence systems [MANPADS]

USNI: MH-60R helicopter equip w/ Mk.54 Lightweight Hybrid anti-sub Torpedo & AGM-114N Hellfire air-ground missile for anti-surface ops

Diplomat: Type 71 ships equip w/ Z-8 or Z-18 helicopters, 76 mm AK-176 gun, AK-630 Close-in Weapons Systems [CIWS], chaff & decoy launchers

Defense Tech: Pike miniature laser-guided missile fired by M203 rocket-propelled grenade launch replace FGM-148 Javelin anti-tank missile

Flight Global: AH-64D Apache Longbow helicopter equip w/ precision-guided munitions, Distributed Aperture Semi-Active Laser Seeker [DASALS]

Flight Global: RQ-21 Blackjack unmanned air system equip w/ electro-optical camera, wide area imager, short wave IR hyperspectral imager

USNI: Future Frigate equip w/ torpedo decoy, variable depth sonar, multi-function towed array & 7-meter rigid-hull inflatable boats [RHIB]

USNI: Future Frigate equip w/ Mk 50 30mm guns, SeaRAM anti-ship missile, Hellfire missiles & over-the-horizon surface-to-surface missile

Defense News: Stryker lightweight, armoured personnel carriers for recon equip w/ 30mm cannons, machine guns & Javelin anti-tank missiles

HeliHub: UH-60M Black Hawk Utility Helicopters equip w/ AN/AAR-57 Common Missile Warning Systems [CMWS], EO/IR & M240H 7.62mm Machine Guns

DID: F-16 aircraft equip w/ Sniper XR Advanced Target Pod [ATP] feature high-res, mid-wave Forward Looking Infrared [FLIR] & dual-mode laser

August 2015 Fleet Upgrade & Replacement Catalog

Diplomat: Mi-171Sh helicopter equip w/ S-8 unguided rockets, GSh-23L 23mm cannons & nose & rear fuselage sections mounted 7.62mm PKT gun

Diplomat: Mi-171Sh helicopter equip w/ High-precision-guided missile system launch supersonic missiles feature warhead vs armoured targets.

Flight Global: J-20, J-31 aircraft equip w/ EOTS-89 electro-optical target system [EOT] & EORD-31 infrared search and track [IRST] for ISR

Flight Global: T-50 aircraft equip w/ NIIP active phase array radar feature forward-looking X-band radar, side-scan arrays & L-band antennas

USNI: LCS equip w/ MH-60R helicopter, MQ-8B Fire Scout unmanned aircraft system feature FLIR, Rigid-hull inflatable boats [RHIB] & 30mm guns

Defcon: Tiger helicopter equip w/ 30mm turret cannon, wing-mount missiles & rockets, electro warfare for escort, ground fire support & recon

HeliHub: AH-64E Apache aircraft equip w/ KOR-24A Link 16 terminals, M211 & M212 Advanced Infrared Countermeasure Munitions [AIRCMM] flares

HeliHub: AH-64E Apache aircraft equip w/ AN/APR-39D[V]2 Radar Signal Detecting Sets & Integrated Helmet & Display Sight Systems [IHDSS-21]

HeliHub: AH-64E Apache aircraft equip w/ AN/APR-48B Radar Frequency Interferometers & AAR-57[V]3/5 Common Missile Warning Systems [CMWS]

HeliHub: AH-64E Apache aircraft equip w/ AN/AAR-11 Pilot Night Vision Sensors [PNVS], IFF transponders & AN/APG-78 Fire Control Radars [FCR]

HeliHub: AH-64E Apache aircraft equip w/ AN/ASQ-170 Modernise Target Acquisition & Designate Sights [M-TADS] & M206 IR countermeasure flares

Flight Global: LCS ships equip w/ MQ-8C Fire Scout unmanned aircraft feature AN/ZPY-4 wide-area radar & APKWS 70mm laser-guided rockets

Defcon: Carriers, Destroyers & Frigates equip w/ AN/SLQ-32[V]7 feature active radar-jamming capability & electronic warfare threat detect

Defcon: Z-19E helicopter equip w/ tank-killing missiles & air-to-air missiles, machine gun EO turret & 57-1AH rockets from HF25G launchers

Flight Global: Gripen NG aircraft equip w/ Active electronically scanned array radar, IR search & track sensor & air-to-air AIM-120B AMRAAMs

Diplomat: Sea Oryx Missile System is ship-based short-range air defence system equip w/ launcher, infrared seeker & enhanced rocket motor

Diplomat: MD 530F Cayuse Warrior light attack gunship equip w/ kinetic ballistic armour, M260 seven-tube air-surface launch for 70mm rockets

Diplomat: MD 530F Cayuse Warrior light attack gunships equip w/ twin FN Herstal 12.7mm Heavy Machine Gun Pods [HMPs] & M3AR tactical radios

Defense News: F-110 Frigates equip w/ Aegis, 24-cell Mk 41 vertical launch system for Sea Sparrow missiles & 5-inch/62 caliber Mark 45 gun

Defense News: CV-22 aircraft equip w/ Common Infrared Countermeasures [CIRCM] defend infrared missiles feature direct laser jamming capable

IHS4: Light Combat Helicopter [LCH] equip w/ electro-optical pods, rocket launch, turret gun & air-air missile launch basic configuration

Diplomat: Dreadnought 2050 ship equip w/ defensive hypersonic missile tubes, directed energy weapons & unmanned underwater vehicles [UUVs]

Flight Global: F-35 aircraft equip w/ Electro-optical targeting system [EOTS] feature short-wave IR, IR marker & image detection resolution

July 2015 Fleet Upgrade & Replacement Catalog

USNI: F-35B aircraft equip w/ GBU-32 Joint Direct Attack Munition [JDAM], GBU-12 Paveway II laser-guided munition & AIM-120C AMRAAM

Defense News: AH-1Z Viper helicopter equip w/ dual-mode seek in AGM-114R Hellfire body combine semi-active laser, fire& forget mm wave radar

Defcon: Blighter A400 Series radars equip w/ freq modulated continuous wave & passive electronic scan array tech detect medium & small UAV

IHS4: Type 26 frigates equip w/ launchers for Sea Ceptor air defence system; Phalanx Block 1B CIWS & 30 mm auto small-calibre gun systems

IHS4: Type 26 frigates equip w/ 127 mm Mk 45 Mod 4 gun system, Mk 41 vertical launch system [VLS] for anti-surface & anti-submarine weapons

Defcon: RQ-21A Blackjack UAS equip w/ electro-optic & mid-wave infrared sensors feature infrared marker & laser rangefinder for land/sea ops

IHS4: AC-130J Ghost Rider aircraft equip w/ 30mm GAU23/A Bushmaster chain gun, GM176 Griffin laser-guided missiles, GBU39 SDBs & EO/IR sensor

Defcon: Lazar 2 8x8 multi-role armoured vehicle equip w/ RCWS fit 30mm M86 automatic cannon, ATGW launch & 7.62mm M86 coaxial machine gun

IHS4: C28A corvette equip w/ 76mm main gun, Smart-S Mk2 radar antenna, Radome for Type364 air & surface search radar, air defence C3I system

IHS4: C28A corvettes equip w/ Type 730 Close-in weapon system [CIWS] turrets & quad launch for YJ-82 [C-802] surface-to-surface missiles

IHS4: C28A Corvettes equip w/ FM-90N launcher for short-range HQ-7 surface-to-air missiles & Type 345 or 343G fire control radar system

Flight Global: RQ-4B Global Hawk aircraft equip w/ ISR feature Optical Bar Camera [OBC], SYERS-2C, MS-177 multi-spectral electro-optical I

USNI: Type 052D Luyang III class guided missile destroyer equip w/ YJ-18 anti-ship cruise missile [ASCM] & HHQ-9 surface-to-air missile

USNI: Type 052D Luyang III class guided missile destroyer equip w/ Type 346 Dragon Eye radar active electronically scanned array [AESA]

IHS4: Rafale aircraft equip w/ AM39 anti-ship missile & SCALP [Système de Croisière Autonome à Longue Portée] long-range deep strike weapon

IHS4: Rafale aircraft equip w/ Short & Beyond Visual Range [BVR] air-to-air missile, active radio freq seek & dual waveband imaging IR seek

IHS4: Rafale aircraft equip w/ Armement Air-Sol Modulair [AASM] Hammer [Highly Agile Modular Munition Extended Range] air-to-ground missile

Flight Global: P-8I long-range recon aircraft equip w/ APY-10 surveillance radar, TAPS-143C [V] 3 radar & rear magnetic anomaly detector

Flight Global: P-8I long-range recon aircraft equip w/ AGM-84L Harpoon Block II missiles, Mk 54 lightweight torpedoes & Mk-82 depth charges

Defcon: C-130 aircraft equip w/ Lanza LTR-25 3D long-range deploy air defence radars include ballistic missile detect & mono-pulse capable

Diplomat: Protected Response Vehicle [PRV] equip w/ RCWS: 40mm auto grenade launch, 12.7mm heavy machine gun & 7.62mm coaxial machine gun

Flight Global: F-22 Raptor aircraft equip w/ auto ground collision avoid system, new data-link, AIM-9X & AIM-120D AMRAAM air-to-air missiles

Flight Global: RQ-4B Global Hawk aircraft equip w/ ISR payload adaptor carry Optical Bar Camera [OBC] & Electro-optical Recon System [SYERS]

DID: RBS-70 Man Portable Air Defense Systems [MANPADS] equip w/ adaptable proximity fuse, all-target missile, clip-on thermal imager & IFF

DID: RBS-70 Man Portable Air Defense Systems [MANPADS] 'unjammable' laser beam-riding missile handled from tripod w/ no seeker head at front

June 2015 Fleet Upgrade & Replacement Catalog

IHS4: UH-60M Blackhawk helicopter equip w/ AN/APR-39A[V]4 radar warning receivers, AN/AAR-57 missile warning & AN/AVR-2B[V]1 laser warnings

IHS4: UH-60M Blackhawk helicopter equip w/ MX-15Di or Brite Star II electro-optical/infrared designators & AN/AVS-9 night-vision goggles

IHS4: UH-60M Blackhawk helicopter equip w/ T700-GE-701D engines, 7.62mm M134 Miniguns, 12.7mm GAU-19 Gatling guns & 70 mm Hydra rocket pods

Diplomat: JF-17 aircraft equip w/ PL-12/SD-10B medium-range AAMs; C-802A anti-ship missiles & twin launchers for MK-20, GBU-12 munitions

Diplomat: JF-17 aircraft equip w/ PL-5, -7, -8 or -9 short-range air-air missiles [AAMs] or PL-12/SD-10B medium-range AAMs & GBU-10 munition

Flight Global: JF-17 aircraft equip w/ active electronic scan array [AESA] radar, IR search & track sensor & pod stations under fuselage

Flight Global: Scorpion aircraft equip w/ twin-payload configuration combines MX-15 electro-optical/IR sensor & Synthetic aperture radar

Flight Global: S2R-T660 turboprop aircraft equip w/ 2.75 inch rockets, laser-guided munitions & electro-optical/infra-red [EO/IR] sensor pod

Flight Global: I-Derby ER beyond visual range air-to-air missile equip w/ two pulse booster & seeker radar [SDR] for fire & forget capable

Flight Global: Fokker 100 aircraft equip w/ RBE-2 Active electronically scan array radar [AESA], NG targeting pod & Mica air-to-air missiles

IHS4: Puma Armoured infantry fighting vehicle [AIFV] equip w/ turret utilise dual-feed 30mm MK 30-2 cannon & 5.56mm MG4 co-axial machine gun

Diplomat: AS-565 Panther helicopter equip w/ Mk 46 or A.244/S lightweight ASW torpedoes & DS-100 helicopter long-range active sonar [HELRAS]

Flight Global: Anti-UAV Defence System [AUDS] equip w/ scan radar, electro-optical & thermal image cameras, radio frequency inhibitor/jammer

Flight Global: F-15C Eagle aircraft equip w/ rail-mount OpenPod sensor for infrared search & track [IRST], Light detect & range [LIDAR] ops

Diplomat: Project 973 Divine Eagle UAV equip w/ AESA radars [AMTI, SAR & GMTI types] & Target Indicate [AMTI] for fighters & cruise missiles

Diplomat: Project 973 Divine Eagle UAV high-altitude, long-endurance [HALE] multi-mission platform for long-range surveillance & strike ops

USNI: DDGH-39 Destroyer equip w/ SPY-1D air search radar, RIM-162 SeaSparrow Missile [ESSM] & 48-cell Mark 41 Vertical Launch Tubes for SM-2

USNI: LCS equip w/ Mk 38 25mm machine guns, Multi-Function Towed Array detection system, torpedo decoy & SeaRAM anti-ship missile system

HeliHub: Ka-31 helicopter equip w/ on-board early radar warning system & retractable radar antenna detect missiles, helicopters, aircraft

May 2015 Fleet Upgrade & Replacement Catalog

HeliHub: MH-60R helicopters equip w/ AGM-114Q Hellfire Missiles, Advanced Precision Kill Weapons System [APKWS] rockets, M-240Ds & GAU-21s

HeliHub: MH-60R helicopters equip w/ AN/SSQ-36/53/62 Sonobuoys, AGM-114R Hellfire II missiles, AGM-114 M36-E9 Captive Air Training missiles

HeliHub: MH-60R helicopters equip w/ AN/AAS-44C[V] Multi-Spectral Target, FLIR, GPS/Inertial Navigate, Select Available/Anti-Spoofing Module

HeliHub: MH-60R helicopters equip w/ APS-153[V] Multi-Mode radars, T-700 GE 401 C engines, APX-123 Identification Friend or Foe transponders

Flight Global: Gripen aircraft equip w/ AIM-9L/M Sidewinder short-range air-air missiles, 27mm cannon & AIM-120C5 med-range air-air missiles

Defense News: BMP-1 IFVs equip w/ 9M133 anti-tank missiles, AGS-30 30mm auto grenade launch, 30mm 2A42 main gun & 7.62mm coaxial machine gun

IHS4: J-11B aircraft equip w/ imaging/IR [IIR] air-air missiles, infrared search & track system [IRST] & fly-by-wire flight control system

Defcon: V-22B Osprey aircraft equip w/ AN/ASN-163 mini airborne global position system receivers & AN/ARN-153 tactical airborne navigation

Defcon: V-22B Osprey aircraft equip w/ AN/APN-194 radar altimeters, AN/ARN-147 high-frequency omni-direction range instrument landing system

Defcon: V-22B Osprey aircraft equip w/ AN/APR-39 radar warning receivers, AN/ALE-47 countermeasure dispensers & AN/APX-123 IFF systems

Defcon: V-22B Osprey aircraft equip w/ AE1107C engine, AN/AAQ-27 Forward-looking infrared radars [FLIR] & AN/AAR-47 missile warning systems

Defcon: MQ-4C Triton aircraft equip w/ multi-function active sensor [MFAS] active electronic scanned array [AESA] radars for 360° coverage

Defense Tech: Carriers, Amphibs equip w/ Ship Self Defense Systems [SSDS] utilise Fire Control Loop [F-CLIP], common sensor & radar display

Defense Tech: Carriers, Amphibs equip w/ Evolved Sea Sparrow Missile [ESSM] target guide by receive & active send electromagnetic signals

Flight Global: F-16 aircraft equip w/ Joint helmet-mount cue systems [JHMCS], AN/APX-126 IFF interrogator/transponders & Link-16 terminals

April 2015 Fleet Upgrade & Replacement Catalog

Defcon: Gripen C/D aircraft equip w/ PS-05/A Mk4 radar integrates AMRAAM & Meteor for Air-to-Air mode detect targets at low altitudes

Flight Global: Gripen C/D aircraft equip w/ PS-05/A Mk4 mechanically-scanned fire-control radar for detect high-altitude air-to-air scenario

Flight Global: C-130J tactical aircraft equip w/ countermeasure-dispensing systems, radar warning receivers & flare cartridges for transport

Diplomat: JF-17 Thunder aircraft equip w/ PL-12/SD-10B medium-range AAMs, C-802A anti-ship & anti-radiation missiles, MK-20, GBU-12 munition

Diplomat: JF-17 Thunder combat aircraft equip w/ internal GSh-23-2 twin-barrel cannon & PL-5, -7, -8 or -9 short-range air-to-air missiles

Defcon: SMART-L 3D multi-beam digital control Active Electronic Scanned Array [AESA] radar provides long-range air & surface surveillance

Flight Global: MV-22 Osprey tiltrotor aircraft equip w/ special mounted Griffin tube-launch precision-guided missile utilise targeting laser

USNI: DDG Destroyers equip w/ SPY-1D radar & MK 41 vertical launch system tubes to detect & launch Standard Missile 3 interceptors for BMD

Flight Global: Gripen E aircraft equip w/ Skyward-G Infrared search and track [IRST] system for high-fidelity, long-range target track info

Flight Global: UH-1Y Venom, AH-1W Cobra helicopters equip w/ Advanced Precision Kill Weapon [APKW] convert Hydra rockets to precision strike

Defense News: Flight III Arleigh Burke-class destroyers equip w/ Air Missile Defense Radar [AMDR] primary sensor system replace SPY-1D radar

Flight Global: F-15E aircraft equip w/ BRU-61/A carriage system for SDB II w/ tri-mode seeker, mm-wave radar, IR & laser-guidance sensors

USNI: JHSV equip w/ electromagnetic rail gun for anti-surface warfare [ASUW], ballistic missile defense [BMD] & CIWS against cruise missiles

USNI: LCS equip w/ multi-functional towed array, over-the-horizon radar, light-weight torpedo CM, 30mm gun & rigid-hull inflatable boats

March 2015 Fleet Upgrade & Replacement Catalog

HeliHub: AH-64E Apache attack helicopters equip w/ AGM-114R1 Hellfire air-to-surface missiles & Block I 92H Stinger air-to-air missiles

Diplomat: Type 041 submarine [SSK] equip w/ YJ-2 anti-ship missiles, Yu-4 passive homing & Yu-3 active/passive homing torpedoes

Defcon: AH-1W Cobra attack helicopter equip w/ BGM-71 tube-launch, optically-track, wireless-guided [TOW] 2A RF long-range anti-tank missile

IHS4: Type 051B Destroyer equip w/ twin 100 mm turret, twin 37 mm guns, HQ-7 short-range surface-to-air missiles & C-802 anti-ship missiles

USNI: LHD-1 Amphib equip w/ close in weapon systems [CIWS], Mk 38 25mm guns, RIM-7 Sea Sparrow & Rolling Airframe Missile [RAM] & EW suite

IHS4: DDH 183 helicopter carrier equip w/ OQQ-22 bow-mounted sonar, RIM-116 Rolling Airframe Missile, SeaRAM launchers & two Phalanx CIWS

Defcon: SGPV-LCS equip w/ 57mm Mk3 naval stealth gun, Seahawk 30mm cannons, 16-cell surface-air missiles & SMART-S Mk2 3D multi-beam radar

IHS4: UH-60M Black Hawk utility helicopters equip w/ AN/APR-39A[V]4 radar-AN/AAR-57 missile- & AN/AVR-2B [V]1 laser-warning countermeasures

IHS4: UH-60M Black Hawk utility helicopters equip w/ MX-15Di or Brite Star II electro-optical/IR designators & AN/AVS-9 night-vision goggles

IHS4: UH-60M Black Hawk utility helicopters equip w/ 7.62mm M134 Miniguns, 12.7mm GAU-19 Gatling guns & 70mm laser-guided Hydra rocket pods

Flight Global: MQ-9 Reaper UAV & fixed-wing aircraft fit w/ dual-mode seeker-equip Brimstone air-surface missiles for moving ground targets

IHS4: Super Lynx 300 helicopter equip w/ infrared Sea Venom/ANL anti-ship missile replace Sea Skua missile w/ semi-active radar-guidance

Defense News: DDG 1000 destroyers & CVN 78 carriers equip w/ dual band radar [DBR] combines SPY-3 X-band w/ SPY-4 S-band volume search radar

February 2015 Fleet Upgrade & Replacement Catalog

Helihub: UH-1Y Huey helicopters equip w/ GAU-17/A Gatling gun, GAU-21 .50-caliber machine gun & 70 mm rocket fire for close air support

Defcon: Missile Launch System [MLS] fire Lightweight Multi-role Missile [LMM] feature two-axis gyro-stabilised turret, EO target track suite

Defense News: UH-60 helicopter equip w/ Hellfire missiles, .50-calibre GAU-19 machine guns, 7.62mm M134 minigun & FLIR Systems EO/IR sensor

Flight Global: AW101 Merlin HM2 helicopters equip w/ airborne early warning radar replace Sea King 7 Airborne Surveillance & Control [ASaC]

Defense News: Typhoon aircraft equip w/ Brimstone 2 dual-mode sensor missiles on outboard pylons, other air-to-air & air-to-ground missiles

Defcon: M-ATV equip w/ R-400 fire control system, M230LF 30mm lightweight automatic chain gun & three-axis stabilised remote weapon station

Flight Global: F-15E aircraft equip w/ precision-guide Small Diameter Bomb II [SDB II] w/ tri-mode seek, millimetre-wave radar & IR sensor

Defcon: Predator XP UAS equip w/ SATCOM link, automatic take-off & landing system, full-motion optical & IR camera, Lynx multi-mode radar

USNI: Destroyers, Carriers & Amphib equip w/ AN/SLQ-32[V] Electronic Attack for anti-ship missile early detect & protect, replace AN/SLQ-32

Defcon: AN/TPS-80 Ground/Air Task Oriented Radar [G/ATOR] w/ active electronic scanned array radar for ground weapon locating, air defence

Defense News: F/A-18 aircraft equip w/ Sniper targeting pod featureIRST21 Infrared sensor/receiver & passive, long-range sensor system

Navy Times: F/A-18, B-2 aircraft equip w/ Long Range Anti-Ship Missile [LRASM] from vertical launch tubes for passive homing replace Harpoon

USNI: Littoral Combat Ship [LCS] equip w/ MH-60S helicopter-based laser airborne detect [ALMDS], Remote Mission Vehicle[RMMV], AQS-20A sonar

Defense News: Tiger helicopter equip w/ targeting system, external fuel tanks, Hellfire & Spike air-to-ground missile & air-to-air weapon

January 2015 Fleet Type Upgrade/Replace Catalog

Defcon: EA-18G electronic warfare aircraft equip w/ ultra-high-frequency Joint Tactical Terminal-Receivers [JTT-R] for over-the-horizon ops

Defence Talk: J-10B aircraft equip w/ active phased-array radar, electronic jam & search, short-range ammo & medium-range intercept missile

IHS4: Type 054A guided missile frigate equip w/ 324 mm tubes for Yu-7 anti-sub torpedo, HHQ-16 surface-to-air & C-802 anti-ship missiles

IHS4: Type 054A guided missile frigate equip w/ 76 mm main gun, Type 730A 30mm Close-in weapon system turrets & RBU 1200 anti-sub launchers

Flight Global: B-52 aircraft equip w/ AGM-158 joint air-to-surface standoff missile [JASSM] & ADM-160 miniature air-launched decoy munitions

Defcon: SM-6 supersonic air & missile defence interceptor engage UAV, fixed & rotary-wing aircraft, land-attack & anti-ship cruise missiles

Flight Global: F-35 aircraft equip w/ AIM-132 short-range air-to-air missile, Paveway IV laser-guided & GBU-39 small diameter munitions

Defence Talk: F/A-18C/D Hornet aircraft equip w/ APG-79[V]X AESA radar system, air-to-air & air-to-ground capable, high-resolution SAR

Defence Talk: Type-055 destroyer equip w/ digital phased radar, electromagnetic guns, lasers, anti-ship & ship-to-ground cruise missiles

Defence Talk: S-400 Triumph long, medium-range surface-air missiles engage aircraft, unmanned aerial vehicles, cruise & ballistic missiles

Breaking Defense: Type 052C/Ds & Type 055 guided-missile cruisers equip w/ phased-array radars, long-range anti-aircraft warfare [AAW] tech

Defcon: AW189 SAR Helicopter equip w/ dual rescue hoist, search radar, high def FLIR, searchlight, FMS & Auto Flight Control System [AFCS]

HeliHub: MH-60 helicopter equip w/ multi-spectral targeting system & airborne, electro-optic, FLIR, turreted sensor package for target track

Defence Talk: Charles de Gaulle aircraft carrier equip w/ surface-air anti-missile system for weapon assign & short, medium-range engage

Defcon: Medium Extended Air Defence System [MEADS] equip w/ jammer signal track & cancel, ground search for next-gen air & missile defence

Defcon: River-class Offshore patrol vessel [OPV] equip w/ SCANTER 4100 radar for close-in & stand-off target detect vs air & surface targets

Defcon: C-17 aircraft & CH-47 helicopter transport AN/TSQ-135 Mobile Tower Systems [MOTS] equip w/ communications radios replace AN/TSW-7A

Insider: Jinan 052C guided missile destroyer equip w/ long-range early-warning & air-defence system, cruise missile vertical launch cells

Defense Tech: DDG 51 Arleigh Burke-class destroyers equip w/ Laser Weapons [LaWS], Block II SEWIP & SPY-1D radar detect incoming missiles