PHOTON CLASS (w/o modules) WARP DRIVE Nacelles: Type 8 138 Class and Type: Photon-Class Fast Surveyor Speed: 8.4/9.9/9.982 [1 Power/.2 warp speed] Commissioning Date: 2372 Special Configuration: Variable Geometry 5 (-2 Power for Sustained / Maximum) **HULL SYSTEMS** PIS: Type J (48 hours of Maximum Warp) 20 Upratings Size: 3 Typ 4 (+0.4 to standard) 8 Length: 81.50 meters Typ 3 (+0.3 to sustained) 6 Beam: 42 meters Typ 1 (+0.1 to maximum) 2 Height: 16.80 meters Decks: 4 **IMPULSE SYSTEMS** Mass: 53,249 metric tons Type: 5 (0.8c/0.95c) [7/9 Power / round] 25 SU s available: 1,000 Location: Deck 3, port and starboard SU s used: 915 Acceleration Uprating: Class Gamma [100%] 8 [1 Power / round when active] HULL 3 Reaction Control System (.025c) Outer 12 [2 Power / round when in use] Inner 12 6 Impulse Thrusters (+0.1/+0.05 to Impulse Speed) RESISTANCE Outer Hull: 6 6 **POWER SYSTEMS** Inner Hull: 6 6 WARP ENGINE STRUCTURAL INTEGRITY FIELD Type: Class 6/K (generates 349 Power/round) 75 21 Main: Class 3 (Protection 60/90) Location: Deck 3, Deck 4 [1 Power / 10 Protection / round] Impulse Engine: Class 5 (generate 40 power/round) Backup: Class 3 (Protection 30) 11 Auxilliary Power: 1 reactor (gen. 5 Power/round) 3 [1 Power / 10 Protection / round] Emergency Power: Type A (gen. 25 Power/round) 25 EPS: Standard Power flow, +100 Power transfer 25 **SPECIALIZED HULL:** Atmospheric Capability 3 Standard Usable Power: 389 Planetfall Ability **OPERATIONS SYSTEMS** PERSONNEL SYSTEMS **Bridge: Saucer section dorsal** 15 Crew / Passengers / Evac: 6 / 6 / 120 COMPUTERS (BIO-NEURAL): **CREW QUARTERS** Core 1: Deck 2, port [5 Power / round] 9 Spartan: None Core 2: Deck 2, starboard [5 Power / round] 9 2 Basic: 12 Uprating: Class Beta (+2) Expanded: None [2 Power / Computer / round] Luxury: None ODN 9 Unusual: None Navigational Deflector [5 Power / round] 12 **ENVIROMENTAL SYSTEMS** Range 10/20,000/50,000/150,000 Basic Life Support [3 Power / round] 12 Accuracy 5/6/8/11 6 Reserve Life Support [2 Power / round] Location: Forward ventral, Deck 4 **Emergency Life Support** 6 3 3 Auxiliary Deflector: Forward Deck 1 Gravity [2 Powers / round] Consumables: 1 year worth 3 Food Replicators [3 Power / round] 3 Industrial Replicators 3 Type: Network of small replicators [2 Power/round] Medical Facility: 3 (+1) [3 Power / round] 15 Recreation Facilities: 2 [4 Power / round] 16 Personnel Transport: Jeffries tubes, antigrav-shaft 3 Fire Suppression System [1 Power / round] 3 Cargo Holds: 500 cubic meters 1

PROPULSION SYSTEMS



Escape Pods

Number: 6

Locations: 2 on Deck 3, Deck 4

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SENSOR SYSTEMS Long Range Sensors [5 Power / round] 46 SCIENCE SYSTEMS Range Package: Type 6 (Accuracy 3/4/7/10) Rating 1 (+0) [5 Power / round] 8 High-Resolution: 5 light-years Specialized Systems: None 2 Low-Resolution: 16 light-years Laboratories: 1 (Deck 1) Strength Package: Class 8 (Strength 8) **TACTICAL SYSTEMS** Gain Package: Class Beta (+2) Coverage: standard 22 32 Lateral Sensors [5 Power / round] Saucer Dorsal Phaser Array: Strength Package: Class 8 (Strength 8) Type X Gain Package: Class Beta (+2) Damage 200 [20 Power] Coverage: standard Number of Emitter: 120 (up to 3 shots / round) Navigational Sensors [5 Power / round] 20 Auto-Phaser Interlock: Accuracy 4/5/7/10 Strength Package: Class 8 (Strength 8) Range: 10/30,000/100,000/300,000 Gain Package: Class Beta (+2) Location: Saucer top Probes: 60 probes of varying types 6 Firing Arc: 405 degrees Firing Modes: standard, continuous, pulse, wide Flight Control Systems 15 Autopilot: Flight Control 4, Coordination 3 Forward Torpedo Launcher 13 [1 Power / round] Standard Load: Type II photon torpedo (200 Damage) Navigational Computer Spread: 6 Main: Class 3 (+2) [2 Power / round] Range: 15/350.000/1.500.000/4.050.000 Targeting System: Accuracy 5/6/8/11 Backup: 1 Inertial Damping Field Power: [20 + 5 per torpedo fired] Main 12 Location: Forward, Deck 3 Firing Arc: Forward, but are self guided Strength: 9 [3 Power / round] Number: 2 3 3 Backup Torpedos carried: 30 Strength: 6 [2 Power / round] TA / T / TS: Class Gamma [2 Power / round] 12 Number: 2 Attitude Control [1 Power / round] 1 Strength: 9 Bonus: +2 **COMMUNICATIONS SYSTEMS** Type: Class 6 [2 Power / round] 12 Shields: (Forward, Aft, Port, Starboard) 24 (x4) Strenath: 6 Shield Generator: Class 4 (Protection 610) [61 Power / shield / round] Security: -2 **Emergency Communications: Yes** 1 Shield Grid: Type B (+33% increase to 812 Protection) [2 Power / round] Subspace Field Amplifiers: Class Delta (Threshold 200) Recharging System: Class 1 (45 seconds) **TRACTOR BEAMS** Backup Shield Generators: 4 (1 per Shield) 4 Emitter: Class Delta [3 Power / STR used / round] 12 Accuracy: 4/5/7/10 **Auto Destruct System** 3 Location: Forward ventral, Deck 3 Emitter: Class Alpha [3 Power / STR used / round] **DESCRIPTION AND NOTES** Accuracy: 4/5/7/10 Location: Aft. Deck 4 Fleet Data: The Photon-Class was designed as small, fast and versatile vessel. Due to the restrictions in space offered it was built **TRANSPORTERS** modular with 2 mission-specific modules attachable. Type: Personnel [2 Power / use] 16 Described above is the basic ship, without any modules connected Pads: 6 Emitter/Receiver Array: Personnel Type 6 (40,000 km) Installation of a module requires a Shipboard Systems (Hull) roll Energizing/Transition Coils: Class G (Strength 7) against a difficulty of 6 and at least 30+3D6 minutes. Number and Location: 1 on Deck 1 In each configuration the Photon-Class is one of the fastest ships in Type: Cargo [2 Power] 10 the federal navy and with the unique impulse thrusters one of the Pads: 400 kg most manouverable. Emitter/Receiver Array: Cargo Type 3 (40,000 km) Intended as a ship of peace and science it was built with only one Energizing/Transition Coils: Class C (Strength 3) phaser, but surprisingly strong shields. Number and Location: 1 on Deck 4 Noteworthy vessels/service records/encounters: **Cloaking Device: None** U.S.S. Photon, prototype; U.S.S. Ion, lost in unexplored space; **SECURITY SYSTEMS** Rating: 1 4



Anti-Intruder System: Yes [1 Power / round]

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OPERATION SYSTEMS Operation Systems **SENSOR SYSTEMS (CHANGED)** SENSOR SYSTEMS (CHANGED) Long Range Sensors [5 Power / round] 76 Probes: 30 probes of varying types (changed) 3 Range Package: Type 8 (Accuracy 3/4/7/10) High-Resolution: 6 light-years TACTICAL SYSTEMS Low-Resolution: 18 light-years Strength Package: Class 10 (Strength 10) Port Phaser Array: (added) 15 Gain Package: Class Gamma (+3) Type X Coverage: +4.000 Substances/phenomena Damage 200 [20 Power] Lateral Sensors [5 Power / round] 41 Number of Emitter: 40 (up to 1 shot / round) Strength Package: Class 10 (Strength 10) Auto-Phaser Interlock: Accuracy 4/5/7/10 Gain Package: Class Gamma (+3) Range: 10/30,000/100,000/300,000 Coverage: +4.000 Substances/phenomena Location: Port, Deck 3 Navigational Sensors [5 Power / round] 28 Firing Arc: 360 degrees Strength Package: Class 10 (Strength 10) Firing Modes: standard, continuous, pulse, wide Gain Package: Class Gamma (+3) Starboard Phaser Array: (added) 15 SCIENCE SYSTEMS (CHANGED) Type X Rating 4 (+3) [5 Power / round] 23 Damage 200 [20 Power] Specialized Systems: None Number of Emitter: 40 (up to 1 shot / round) 2 Laboratories: 5 (4 on Deck 3, 1 on Deck 1) Auto-Phaser Interlock: Accuracy 4/5/7/10 Range: 10/30,000/100,000/300,000 Location: Starboard, Deck 3 Firing Arc: 360 degrees Stealth Module (+19 SU, total 934)(only paired) Firing Modes: standard, continuous, pulse, wide **HULL SYSTEMS** Port Torpedo Launcher (added) 13 Standard Load: Type II photon torpedo (200) **SPECIALIZED HULL:** Spread: 6 9 Energy Sheath (added) Range: 15/350,000/1,500,000/4,050,000 Targeting System: Accuracy 5/6/8/11 PERSONNEL SYSTEMS Power: [20 + 5 per torpedo fired] Location: Port, Deck 3 Crew / Passengers / Evac: 6 / 38 / 120 Firing Arc: Backwards, but are self guided **CREW QUARTERS** Starboard Torpedo Launcher (added) 13 Spartan: 32 (added) 1 Standard Load: Type II photon torpedo (200) Spread: 6 **Escape Pods (changed)** 1 Range: 15/350.000/1.500.000/4.050.000 Number: 12 Targeting System: Accuracy 5/6/8/11 Capacity: 4 persons per pod Power: [20 + 5 per torpedo fired] Location: Starboard, Deck 3 **OPERATIONS SYSTEMS** Firing Arc: Backwards, but are self guided

War Module Alpha (+62 SU, total 977)(only paired)

Torpedos carried: 3 x 40 (changed/added)

Scientific Module (+57 SU, total 972)(only paired)



HULL HOLOEMITTERS

Class Beta [20 Power / round] (added)

9

War Module Beta (+62 SU, total 977)(only paired)

T_{A}

TACTICAL SYSTEMS		PEI
Inner Pulse Phaser Array: (added) Type X pulse Damage 250 [25 Power] Number of Emitter: 120 (up to 3 shots / round) Auto-Phaser Interlock: Accuracy 3/4/6/9	31	,
Range: 10/30,000/100,000/300,000 Location: Deck 3		Col
Firing Arc: Forward Firing Modes: standard, wide		PEI
Outer Pulse Phaser Array: (added)	31	(
Type X pulse Damage 250 [25 Power]		(
Number of Emitter: 120 (up to 3 shots / round) Auto-Phaser Interlock: Accuracy 3/4/6/9 Range: 10/30,000/100,000/300,000 Location: Deck 3		1
Firing Arc: Forward Firing Modes: standard, wide		ΛD

Medical ER Module (+50 SU, total 965)(paired)

RSONNEL SYSTEMS

ENVIROMENTAL SYSTEMS	
Medical Facility 8 (+2)[8 Power / round] (added)	40
EMH: Mark I (Port) (added)	5
EMH: Mark I (Starboard) (added)	5

ourier Module (+33 SU, total 948)(paired)

RSONNEL SYSTEMS

Crew /	Passengers I	/ Evac : 6 /	/ 10 /	120
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CREW QUARTERS Expanded: 4 (added)	1
Escape Pods (changed)	1
Number: 10	
Capacity: 4 persons per pod	

OPERATIONS SYSTEMS

COMMUNICATIONS SYSTEMS (CHANGED)	
Type: Class 10 [2 Power / round]	30
Strength: 10	
Security: -7	
Basic Uprating: Class Beta (+2)	
Security Updating: Class Delta (-2)	
Holocommunications: Yes	1

Shuttle Module (+18 SU, total 933 SU)(paired)

OPERATIONS SYSTEMS

TRACTOR BEAMS (added)	
Emitter: Class Alpha [3 Power / STR / round]	3
Accuracy: 4/5/7/10	
Location: Port, Deck 3	
Emitter: Class Alpha [3 Power / STR / round]	3
Accuracy: 4/5/7/10	
Location: Starboard, Deck 3	

AUXILIARY SPACECRAFT SYSTEMS (added)

Shuttlebay(s): Capacity for 6 Size worth of ships	12
Standard Complement: 6 Type 15 Shuttlecraft or	
2 Type 10 Shuttlecraft	
Location(s): Deck 3, port and starboard	



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Freight Module (+21 SU, total 936)(paired)

PERSONNEL SYSTEMS

Environmental Sy	/stems
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Cargo Holds: 1,250 cubic meters (changed) 1 Locations: 4 on Deck 3, Deck 4

OPERATIONS SYSTEMS

TRANSPORTERS

Type: Cargo [2 Power] 20 Pads: 400 kg Emitter/Receiver Array: Cargo Type 3 (40,000 km)

Energizing/Transition Coils: Class C (Strength 3)

Location: 2 on Deck 3

Medical ER / Courier Module Combination (+54 SU, total 969)

PERSONNEL SYSTEMS

Crew / Passengers / Evac: 6 / 8 / 120

CREW QUARTERS

Expanded: 2 (added) 1

ENVIROMENTAL SYSTEMS

25 Medical Facility 5 (+1)[5 Power / round] (added) EMH: Mark I (added) 5

1

1

Escape Pods (changed)

Number: 8 Capacity: 4 persons per pod

OPERATIONS SYSTEMS

COMMUNICATIONS SYSTEMS (CHANGED)

Holocommunications: Yes

Type: Class 8 [2 Power / round] 21 Strength: 8 Security: -4 Basic Uprating: Class Alpha (+1) Security Updating: Class Gamma (-1)

Medical ER / Shuttle Module Combination (+39 SU, total 954)

PERSONNEL SYSTEMS

ENVIROMENTAL SYSTEMS

Medical Facility 5 (+1)[5 Power / round] (added) 25 EMH: Mark I (added) 5

OPERATIONS SYSTEMS

TRACTOR BEAMS (added)

Emitter: Class Alpha [3 Power / STR / round] 3 Accuracy: 4/5/7/10 Location: Shuttle-Module, Deck 3

AUXILIARY SPACECRAFT SYSTEMS (added)

Shuttlebay(s): Capacity for 3 Size worth of ships 6 Standard Complement: 3 Type 15 Shuttlecraft or 1 Type 10 Shuttlecraft Location(s): Deck 3, Shuttle-Module



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Medical ER / Freight Module Combination (+44 SU, total 959)

PERSONNEL SYSTEMS

ENVIROMENTAL SYSTEMS

Medical Facility 5 (+1)[5 Power / round] (added) 25
EMH: Mark I (added) 5
Cargo Holds: 875 cubic meters (changed) 1
Locations: 2+1 on Deck 3, Deck 4

OPERATIONS SYSTEMS

TRANSPORTERS

Type: Cargo [2 Power] 10
Pads: 400 kg
Emitter/Receiver Array: Cargo Type 3 (40,000 km)
Energizing/Transition Coils: Class C (Strength 3)
Location: 1 on Deck 3 in Freight Module

Courier / Shuttle Module Combination (+33 SU, total 948)

PERSONNEL SYSTEMS

Crew / Passengers / Evac: 6 / 8 / 120

CREW QUARTERS

Expanded: 2 (added) 1

Escape Pods (changed) 1

Number: 8

OPERATIONS SYSTEMS

COMMUNICATIONS SYSTEMS (CHANGED) Type: Class 8 [2 Power / round]

Capacity: 4 persons per pod

Strength: 8
Security: -4
Basic Uprating: Class Beta (+1)
Security Updating: Class Delta (-1)
Holocommunications: Yes

1

TRACTOR BEAMS (added)

Emitter: Class Alpha [3 Power / STR / round] 3
Accuracy: 4/5/7/10
Location: Shuttle Module, Deck 3

AUXILIARY SPACECRAFT SYSTEMS (added)

Shuttlebay(s): Capacity for 3 Size worth of ships
Standard Complement: 3 Type 15 Shuttlecraft or
1 Type 10 Shuttlecraft
Location(s): Deck 3, Shuttle-Module

Courier / Freight Module Combination (+35 SU, total 950)

PERSONNEL SYSTEMS

Crew / Passengers / Evac: 6 / 8 / 120

CREW QUARTERS

Expanded: 2 (added) 1

ENVIROMENTAL SYSTEMS

Cargo Holds: 875 cubic meters (changed) 1 Locations: 2+1 on Deck 3, Deck 4

1

Escape Pods (changed)

Number: 8 Capacity: 4 persons per pod

OPERATIONS SYSTEMS

COMMUNICATIONS SYSTEMS (CHANGED)

Type: Class 8 [2 Power / round] 21
Strength: 8
Security: -4
Basic Uprating: Class Beta (+1)
Security Updating: Class Delta (-1)
Holocommunications: Yes

TRANSPORTERS

Type: Cargo [2 Power] 10
Pads: 400 kg
Emitter/Receiver Array: Cargo Type 3 (40,000 km)
Energizing/Transition Coils: Class C (Strength 3)
Location: 1 on Deck 3 in Freight Module



Shuttle / Freight Module Combination (+33 SU, total 948)

PERSONNEL SYSTEMS

ENVIROMENTAL SYSTEMS

Cargo Holds: 875 cubic meters (changed) Locations: 2+1 on Deck 3, Deck 4

1

10

6

OPERATIONS SYSTEMS

TRACTOR BEAMS (added)

Emitter: Class Alpha [3 Power / STR / round] 3 Accuracy: 4/5/7/10 Location: Shuttle Module, Deck 3

TRANSPORTERS

Type: Cargo [2 Power]

Pads: 400 kg

Emitter/Receiver Array: Cargo Type 3 (40,000 km) Energizing/Transition Coils: Class C (Strength 3) Location: 1 on Deck 3 in Freight Module

AUXILIARY SPACECRAFT SYSTEMS (added)

Shuttlebay(s): Capacity for 3 Size worth of ships
Standard Complement: 3 Type 15 Shuttlecraft or
1 Type 10 Shuttlecraft
Location(s): Deck 3, Shuttle-Module

DESCRIPTION AND NOTES

Science Module: The Science Module, before the Dominion War one of the most frequently used, improves the already good sensors to some of the best in Starfleet.

Also installed are four state-of-the-art laboratories with excellent science systems.

Due to the massive sensor-enhancments this module is only available in paired installation.

War Module Alpha: The first War Module set adds a potent phaser strips and a standard torpedo launcher per module. Together these at least double the offensive potential of the Photon-Class. The amount of torpedos is expanded to 120, at the cost of 30 probes.

This module is only installable as pair.

War Module Beta: After the successful test of pulse-phaser cannons on the U.S.S. Defiant a second, stronger set of wartime modules with a total of two pairs of 120-emitter pulse-phaser cannons were developed. This vastly enhances the offensive value of the ship.

This module is only installable as pair.

Stealth Module: Sometimes even Starfleet has need of some special operations. For this purpose this module is equipped with a energy sheath hull to avoid detection and the hull can be camouflaged with holo-emitters.

Being stealthy the Photon-Class can transport up to 32 special forces undetected to their destination.

The installed holo-emitters allow for installation in paired configuration only.

Courier Module: For urgent diplomatic missions or fast personal transport a courier module was developed. It adds two expanded crew quarters for the leading diplomats and enhances the communication systems to secure standards.

This Module can be installed alone or paired.

In paired installation the communications are even further enhanced and are one of the best in Starfleet.

Medical Emergency Module: In times of medical emergencies this module can be installed to bring medical help as soon as possible to the place needed.

Enhanced medical capabilities and an EMHs (Mark I) can treat several injured at once and the module has beds for up to 6 patients.

In paired configuration up to twelve patients can be supported and the medical rating increases even further.

Each module then has its own EMH which can work in any of the modules or even in the holodeck of the Photon-Class

Shuttle Module: Normally the small ships of the Photon-Class are not equipped with shuttles. With this module three small Type 15 Shuttlepods or one Type 10 Long-Range Shuttles can be transported. A small Class Alpha tractor beams assist in operating the shuttles.

This module can operate in single or paired configuration.

Freight Module: To transport more cargo the freight modules adds an areas of 375 cubic meters of cargo-space. The module is equipped with a standard cargo transporter and has a large door. This module can also be used alone or in paired configuration.



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