



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, DC 20350-2000

IN REPLY REFER TO  
OPNAVINST 3501.320C  
N85  
13 Apr 2011

OPNAV INSTRUCTION 3501.320C

From: Chief of Naval Operations

Subj: REQUIRED OPERATIONAL CAPABILITIES AND PROJECTED  
OPERATIONAL ENVIRONMENT FOR COMBAT CAMERA UNITS

Ref: (a) OPNAVINST C3501.2K (NOTAL)  
(b) DoD Instruction 5040.04 of 6 Jun 2006  
(c) NTPP 3-61.2, Combat Camera Operations, May 2007

Encl: (1) Projected Operational Environment (POE) for Combat  
Camera (COMCAM) Units  
(2) Required Operational Capabilities (ROC) for Combat  
Camera (COMCAM) Units

1. Purpose. This instruction revises the required operational capabilities (ROC) and the projected operational environment (POE) for the combat camera (COMCAM) units.

2. Cancellation. OPNAVINST F3501.320B.

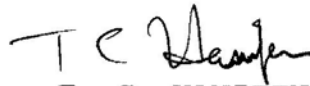
3. Background. COMCAM units are expressly organized, trained and equipped to provide rapid deployment COMCAM assets to support military exercises, operations, and contingencies. This includes providing specialized imaging acquisition and transmission capabilities to document force deployments and activities before, during and after military engagements.

4. Discussion. Enclosures (1) and (2) are prepared pursuant to reference (a). The ROC and POE provide the necessary details to describe the mission areas and operational capabilities for which COMCAM units are responsible in support of Chief of Naval Operations (CNO), Navy component commander (NCC), combatant commander (CCDR), joint force commander (JFC), and joint task force commander (CJTF) tasking and the requirements of references (b) and (c). This instruction provides resource agencies with information concerning COMCAM unit mission

requirements, capabilities, and the types and locations of expected operations. Together the ROC and POE establish tasking which produces a measurable workload used to compute personnel requirements for fleet manpower documents (FMD).

5. Action. Request fleet commanders and Commander, Navy Expeditionary Combat Command, periodically review enclosures (1) and (2) and recommend changes to CNO (Attn: Navy Expeditionary Combat Branch (N857)) when capabilities of COMCAM units are significantly altered. Change recommendations should include comments on expected FMD impact.

6. Records Management. Records created as a result of this instruction, regardless of media and format, shall be managed per Secretary of the Navy Manual 5210.1 of November 2007.



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PROJECTED OPERATIONAL ENVIRONMENT (POE)  
FOR  
COMBAT CAMERA UNITS (COMCAM)

1. COMCAM is defined as the acquisition and utilization of still and motion imagery in support of combat, information, humanitarian, special force, intelligence, reconnaissance, engineering, legal, public affairs, and other operations involving the Military Services. COMCAM forces are composed of U.S. military personnel trained and employed to acquire, process, and transmit classified and unclassified still and motion imagery in support of air, sea, and ground military operations. The Navy COMCAM units consist of trained COMCAM teams ready for rapid worldwide deployment in support of fleet units and joint combatant commands and are equipped with specialized imaging capabilities for the attainment of naval and national objectives. This includes providing specialized imaging acquisition and transmission capabilities to document force deployments and activities before, during and after military engagements.

2. COMCAM units are comprised of active and reserve forces and deploy combat documentation teams in support of CNO, NCC, CDR, JFC or CJTF objectives. COMCAM officers in charge (OICs) maintain non-deployable headquarters staff responsible for organizing, training, equipping and providing administrative support for their unit. OICs ensure COMCAM personnel maintain requisite skills and qualifications to provide a directed imagery capability in support of operational and planning requirements for the range of military operations. Headquarters staff will perform the following functions:

a. Maintain COMCAM force capability to operate in desert, tropical, mountainous and extreme cold weather environments.

b. Provide basic chemical, biological, radiological, nuclear, high yield explosive, survival, small arms, combat life saving, small unit tactics, convoy operations; visit, board, search and seizure; advanced weapons and basic and advanced in-rate training to all assigned personnel.

c. Provide administrative support to meet operational requirements of deploying personnel, such as orders, country clearance messages, individual force protection plans, etc.

d. Procure, maintain and control personal combat equipment, including weapons, ammunition, survival equipment and professional visual information equipment.

e. Provide time-phased resupply to deployed units.

f. Equip and train aerial cameraman (Navy Enlisted Classification (NEC) 8288).

g. Equip and train underwater cameramen (NEC 5345).

h. Provide mobilization training for assigned reserve personnel to augment and integrate with appropriate units.

3. Unit training codes (UTCs) are used to identify personnel and equipment required to complete force deployment packages. There are four basic UTCs assigned to Navy COMCAM which can be modified to meet specialized imagery requirements. Manpower requirements to fulfill the four basic UTCs are listed below:

BILLET TITLE	DESIGNATOR RATE/GRADE	Naval Officer Billet Classification Primary NEC/ Secondary NEC
N26CM (Combat Camera Management/Planner)		
Combat Camera Officer/Planner	6470/LT/MCC	8144/8148
N26IMT (Combat Camera Imagery Management Team)		
Crew Chief	MCC	8144/8148
Videographer	MC1/MC2	8144/8143
Photojournalist	MC1/MC2	8148/8147
Information Systems Technician	IT2	2735/2779
N26DT (Combat Documentation Team)		
Videographer	MC1	8144/8143/8288
Photojournalist	MC2	8148/8147/8288

BILLET TITLE	DESIGNATOR RATE/GRADE	Naval Officer Billet Classification Primary NEC/ Secondary NEC
N26UW (Underwater Combat Documentation Team)		
Self-Contained Underwater Breathing Apparatus (SCUBA)/ Underwater Photographer	MC1	5345/8143
SCUBA/Underwater Photographer	MC2	5345/8143

4. COMCAM units deploy to support CNO, NCC, CCCR, JFC, and CJTF tasking and the requirements across the range of military operations that typically are of significant national interest. Because of wide variations in length and location of deployments, and purpose of mission, COMCAM units are expeditionary forces that provide multiple geographically-separated COMCAM UTCs or teams capable of simultaneous operations with unit compositions as identified in paragraph 3. Specifically, a COMCAM unit is:

a. Capable of deploying one N26CM, one N26IMT, six UTC N26DT, and one UTC N26UW COMCAM teams within 24 hours of activation to conduct 30 days self-sustaining operations in response to respective fleet or CJTF tasking. These UTCs may be comprised of active and or reserve personnel.

b. Capable of deploying one N26CM, one N26IMT, 10 N26DTs, and one N26UW on separate missions simultaneously, when augmented for wartime deployment by reserve components. Capable of deploying one N26CM, one N26IMT, five N26DTs and one N26UW without reserve augmentation.

c. Capable of deploying with all required COMCAM equipment and supplies.

d. Capable of deploying tailored and modified UTCs for specific directed imagery support requirements as tasked.

e. Capable of deploying with Navy and Marine Corps landing and amphibious forces.

f. Capable of deploying with expeditionary forces such as, but not limited to, construction battalion units, special forces teams, underwater construction teams, explosive ordnance detachments, and riverine squadrons.

g. Capable of performing all assigned primary and secondary missions per enclosure (2).

h. Capable of performing all assigned primary missions as tasked by fleet commanders and CJTFs.

i. Capable of performing organizational level maintenance on own unit equipment.

j. Capable of integrating and operating with other services' COMCAM units.

REQUIRED OPERATIONAL CAPABILITIES (ROC)  
FOR  
COMBAT CAMERA (COCAM) UNITS

1. The COMCAM unit's mission is to train for and provide COMCAM teams and specialized man-portable imaging capabilities for the attainment of naval, military and national objectives. This includes providing directed, real-time, hand-held imaging capabilities to document force deployments and activities of the Navy, and when tasked, other services, before, during and after military engagements. In addition, the COMCAM units provide limited area self-defense.

2. Primary missions are those missions that a unit was established to perform during its wartime role. Secondary missions are those missions that a unit could be expected to perform but are not essential to carry out its wartime role. Accordingly, the following primary (P) and secondary (S) warfare mission areas are assigned:

COMBAT CAMERA UNIT								
AMW	CCC	FSO	INT	IO	MOB	MOS	NCO	SUW
P	S	P	S	S	P	P	S	P

AMW = amphibious warfare; CCC = command, control and communications; FSO = fleet support operations; INT = intelligence; IO = information operations; MOB = mobility; MOS = missions of state; NCO = non-combat operations; SUW = surface warfare

3. Two readiness conditions pertain to COMCAM units. The first condition, inactive status, applies when these units are at their parent command conducting normal training and equipment maintenance activities. The second condition, deployed status, applies when a unit or number of units are called to duty by orders to perform their specified mission areas and tasks.

4. ROC symbols are used to specify the desired level of achievement of readiness or other work for or during a particular readiness condition. Readiness normally applies to operations and or evolutions, while other work refers to non-watch activity such as performing maintenance or training. For clarification purposes, the ROC table displays symbols for the COMCAM unit deployed status readiness condition only.

CAPABILITIES

"F" = "Full." The capability is to be fully achieved. For operational functions (watches), this means that installed equipment or systems will be fully manned to design capability.

"L" = "Limited." The capability is to be only partially realized. Even though only limited capability is realized, it is to be sustained. A limiting statement specifying the limitation must support every "L".

MODIFIERS

"A" = "Augmentation." The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using another force or division, added to the existing force, to achieve the required degree of capability. This symbol is always associated with an "F" or an "L" and establishes a requirement for personnel to be trained, available, and on call to augment existing watch stations as required.

"E" = "Special Team." The capability is to be either fully or partially achieved for a limited time during the condition. The capability is achieved by using off-watch special teams or details. This symbol is always associated with an "F" or an "L" and denotes a capability that does not require continuous watch manning. Teams and details as set may either supplement or replace all or part of the existing watch organization.



REQUIRED OPERATIONAL CAPABILITIES

COMBAT CAMERA UNIT	CAPA-BILITY
<b>AMPHIBIOUS WARFARE (AMW)</b>	
<b>AMW 19 PERFORM AMW BATTLE DAMAGE ASSESSMENT (BDA).</b>	
<p>AMW 19.1 Perform AMW BDA.</p> <p>L - Limited to hand-held still and motion imagery.</p>	<b>L</b>
<b>AMW 25 CONDUCT MILITARY OPERATIONS IN URBAN TERRAIN (MOUT).</b>	
<p>AMW 25.2 Conduct MOUT.</p> <p>L - Limited to support of assigned force.</p>	<b>L</b>
<b>COMMAND, CONTROL AND COMMUNICATIONS (CCC)</b>	
<b>CCC 3 PROVIDE OWN UNIT'S C2 FUNCTIONS.</b>	
<p>CCC 3.3 Provide all personnel, services, programs and facilities to safeguard classified material and information.</p>	<b>F</b>
<p>CCC 3.4 Carry out emergency destruction of classified material and equipment rapidly and efficiently.</p>	<b>F</b>
<b>CCC 6 PROVIDE COMMUNICATIONS FOR OWN UNIT.</b>	
<p>CCC 6.1 Maintain tactical voice communications.</p> <p>L - Limited to portable equipment when not embarked.</p>	<b>L</b>
<b>FLEET SUPPORT OPERATIONS (FSO)</b>	
<b>FSO 1 REPAIR AND OVERHAUL SHIPS, AIRCRAFT AND ASSOCIATED EQUIPMENT.</b>	
<p>FSO 1.1 Provide the following services:</p> <p>(q) Photography (including underwater photography, underwater color video tape photography).</p>	<b>F</b>

COMBAT CAMERA UNIT	CAPA-BILITY
FSO 1.14 Provide inspection, test, calibration or repair services for:  (ab)Photographic  L - Limited to own unit.	<b>L</b>
<b>FSO 3 PROVIDE SUPPORT SERVICES TO OTHER UNITS.</b>	
FSO 3.1 Provide the following services to other units:  (zz)Other: Visual information documentation (VIDOC) to support fleet requirements.	<b>F</b>
<b>FSO 5 CONDUCT TOWING/SEARCH/SALVAGE/RESCUE OPERATIONS.</b>	
FSO 5.12 Conduct underwater search operations with video and/or still cameras.	<b>F</b>
<b>FSO 74 CONDUCT/SUPPORT VIDOC USING DIGITAL STILL AND MOTION DATA.</b>	
FSO 74.1 Conduct VIDOC in support of:  (a) Combat operations; (b) Operational requirements; and (c) Technical evaluations.	<b>F</b>
FSO 74.2 Provide the following imaging services:  (a) Hand-held acquisition; (b) Processing; (c) Printing; and (d) Duplication.	<b>F</b>
FSO 74.3 Provide motion media editing, sound mixing and duplication services.	<b>F</b>
FSO 74.4 Provide digital image storage services.	<b>F</b>
FSO 74.5 Provide secure and/or unsecure electronic image transmission services.	<b>F</b>
FSO 74.6 Provide technical guidance and assistance to fleet units in photographic acquisition and production.	<b>F</b>
FSO 74.7 Provide night imagery capability.	<b>F</b>

COMBAT CAMERA UNIT		CAPA-BILITY
<b>INTELLIGENCE OPERATIONS (INT)</b>		
<b>INT 1 SUPPORT/CONDUCT INTELLIGENCE COLLECTION.</b>		
INT 1.3	Support/conduct imagery intelligence information collection at short and long range utilizing organic/non-organic, or assigned imagery sensors and onboard imagery processing systems.  L - Limited to hand-held cameras.	<b>L</b>
INT 1.11	Maintain radar scope photography capability.	<b>F</b>
<b>INT 7 SUPPORT/CONDUCT AIRBORNE RECONNAISSANCE.</b>		
INT 7.4	Conduct strike photography with installed or hand-held cameras, or sensors before, during or after the strike.  L - Limited to hand-held cameras.	<b>L</b>
<b>INT 15 PROVIDE INTELLIGENCE SUPPORT FOR NON-COMBATANT EVACUATION OPERATIONS (NEO).</b>		
INT 15.1	Provide intelligence support for NEO planners and NEO execution.  L - Limited to hand-held still and motion imagery.	<b>L</b>
<b>INT 16 PROVIDE INTELLIGENCE SUPPORT FOR COUNTERNARCOTICS INTERDICTION.</b>		
INT 16.1	Collect and integrate intelligence in cooperation with other services and law enforcement agencies to conduct counternarcotics interdiction.  L - Limited to hand-held still and motion imagery.	<b>L</b>
<b>INFORMATION OPERATIONS (IO)</b>		
<b>IO 17 CONDUCT PSYCHOLOGICAL OPERATIONS (PSYOP).</b>		

13 Apr 2011

COMBAT CAMERA UNIT		CAPA-BILITY
IO 17.1	Produce PSYOP media products such as leaflets, handbills, audio-visual products, video tapes, and AM/FM radio broadcasts in cooperation with the CCCR/JTF PSYOP headquarters.	<b>F</b>
IO 17.2	Disseminate PSYOP media in support of the CCCR/JTF PSYOP campaign plan.	<b>F</b>
<b>MOBILITY (MOB)</b>		
<b>MOB 3 PREVENT AND CONTROL DAMAGE.</b>		
MOB 3.2	Counter and control chemical, biological, and radiological contaminants/agents.  L - Limited to protective clothing.	<b>L</b>
<b>MOB 8 OPERATE FROM A SHIP.</b>		
MOB 8.1	Operate from an aircraft carrier.	<b>F</b>
MOB 8.2	Operate from a ship with a helicopter platform.	<b>F</b>
MOB 8.3	Operate from a submarine.	<b>F</b>
MOB 8.4	Operate from a combatant craft.	<b>F</b>
MOB 8.5	Operate from a sea, air, land (SEAL) delivery vehicle.	<b>F</b>
MOB 8.6	Operate from merchant ships and indigenous craft.	<b>F</b>
MOB 8.7	Operate from a ship capable of supporting air control activities in support of amphibious operations.	<b>F</b>
MOB 8.8	Operate from a well deck equipped amphibious ship.	<b>F</b>
MOB 8.10	Operate from utility and amphibious craft supporting construction operations.	<b>F</b>
MOB 8.11	Operate from an auxiliary submarine rescue ship.	<b>F</b>
MOB 8.12	Operate from an amphibious assault ship (dock) (LHD), amphibious assault ship (general purpose) (LHA).	<b>F</b>

COMBAT CAMERA UNIT	CAPA- BILITY
<b>MOB 11 MAINTAIN MOUNT-OUT CAPABILITIES.</b>	
MOB 11.1 Deploy with organic allowance within designated time period.	<b>F</b>
MOB 11.2 Mount-out selected elements/detachments.	<b>F</b>
<b>MOB 14 CONDUCT OPERATIONS ASHORE.</b>	
MOB 14.1 Operate in climatic extremes ranging from severe cold weather to hot-humid (tropical) to hot-dry (desert) and coastal/ocean environments.	<b>F</b>
MOB 14.5 Conduct peacetime activation, mount-out and movement exercises of selected personnel and equipment to ensure capability of contingencies involving naval forces short of a general war.	<b>F</b>
<b>MISSIONS OF STATE (MOS)</b>	
<b>MOS 2 PROVIDE HUMANITARIAN ASSISTANCE.</b>	
MOS 2.10 Support/provide for the evacuation of noncombatant personnel in areas of civil or international crisis.  L - Limited to hand-held still and motion imagery.	<b>L</b>
<b>MOS 5 PROVIDE FOREIGN INTERNAL DEFENSE ASSISTANCE.</b>	
MOS 5.3 Conduct civil-military activities that isolate the insurgent and exploit his vulnerabilities.  L - Limited to hand-held still and motion imagery.	<b>L</b>
<b>NON-COMBAT OPERATIONS (NCO)</b>	
<b>NCO 2 PROVIDE ADMINISTRATIVE AND SUPPLY SUPPORT FOR OWN UNIT.</b>	
NCO 2.1 Provide supply support services.	<b>F</b>
NCO 2.2 Provide clerical services.	<b>F</b>
NCO 2.7 Provide inventory and custodial services.	<b>F</b>

COMBAT CAMERA UNIT		CAPABILITY
<b>NCO 3</b>	<b>PROVIDE UPKEEP AND MAINTENANCE OF OWN UNIT.</b>	
	NCO 3.1 Provide organizational level preventive maintenance.	<b>F</b>
	NCO 3.2 Provide organizational level corrective maintenance.	<b>F</b>
<b>NCO 8</b>	<b>SERVE AS A PLATFORM FOR OPERATIONAL TEST AND EVALUATION OF SYSTEMS, EQUIPMENT AND TACTICS.</b>	
	NCO 8.1 Provide technical assistance for installed test and evaluation equipment.  L - Limited to imaging equipment.	<b>L</b>
	NCO 8.2 Perform the test and evaluation functions set forth in the appropriate test plans.  L - Limited to imaging equipment.	<b>L</b>
<b>NCO 10</b>	<b>PROVIDE EMERGENCY/DISASTER ASSISTANCE.</b>	
	NCO 10.11 Provide VIDOC support services.	<b>F</b>
<b>NCO 11</b>	<b>SUPPORT/PROVIDE FOR THE EVACUATION OF NON-COMBATANT PERSONNEL IN AREAS OF CIVIL OR INTERNATIONAL CRISIS.</b>	
	NCO 11.6 Provide VIDOC support services.	<b>F</b>
<b>NCO 20</b>	<b>ASSIST AND SUPPORT THE OPERATING FORCES IN THE PLANNING AND CONDUCT OF COVER AND DECEPTION.</b>	
	NCO 20.9 Provide visual imaging services in support of psychological operations.	<b>F</b>
<b>SURFACE WARFARE (SUW)</b>		
<b>SUW 16</b>	<b>PERFORM SUW BATTLE DAMAGE ASSESSMENT (BDA).</b>	
	SUW 16.1 Perform SUW BDA.  L - Limited to hand-held still and motion imagery.	<b>L</b>