QUALIFY WITH THE AN/PEQ-2A

DANGER

INVISIBLE LASER RADIATION - AVOID DIRECT EXPOSURE TO THE BEAM

BINOS OR REFLECTIVE SURFACES
AN/PEQ-2A

TRAINING OUTLINE

1. CHARACTERISTICS
2. PMCS
3. PUT INTO OPERATION
4. ZEROING PROCEDURES
5. FIRING TABLES AND STANDARDS
6. PRACTICAL EXERCISE
7. PERFORMANCE EVALUATION
8. WRITTEN TEST
9. FIELD FIRE
10. PRACTICE QUAL. AND QUALIFICATION
CHARACTERISTICS

DANGER

25 METER DANGER AREA IN DUAL LO
220 METER DANGER AREA IN TACTICAL MODE

TRAINING MODE “LO” IS EYESAFE

LO mode + magnification = not eye safe
CHARACTERISTICS

POWER LED - GREEN=POWER ON
SAFETY BLOCK - BLACK/BLUE=TNG MODE
MOUNTING SCREW – USE SLOT TO TIGHTEN
BATTERY COMPARTMENTS - 2 - AA
CHARACTERISTICS

ILLUMINATOR FOCUS RING
ILLUMINATOR FILTER

ILLUMINATOR
AIMING POINT
REMOTE

AIMING POINT FILTER

STORAGE PLUG IS NOT RE-USABLE
CHARACTERISTICS

PUSH BUTTON SWITCH
HOLD = ON
DOUBLE TAP = CONTINUOUS ON
TAP AGAIN TO TURN OFF

MODE SELECTOR MUST BE ON TO ACTIVATE PUSH BUTTON SWITCH

TRAINING MODES
TACTICAL MODES

NEAR TARGETS
FAR TARGETS OR IN BRIGHT IR LIGHT

Remote works in same manner as push button switch
CHARACTERISTICS

PUSH BUTTON SWITCH

INSERT BATTERIES AND ACTIVATE
**CHARACTERISTICS**

0  = Off  
1.  = Aim LO  
2.  = Dual LO  
3.  = Aim HI  
4.  = Dual LO/HI  
5.  = Dual HI/HI  

Eye safe  
Not eye safe  

Tactical Mode  
Black  

2 - Eye safe beyond 25m  
3-5 eye safe beyond 220m  

Training Mode  
Blue  

#1 When used with bino’s, glasses, 3x extender or any other magnification is not eye safe
CHARACTERISTICS

ALL ADJUSTERS: 1 CLICK = 1 cm AT 25 METERS

AIMING POINT ADJUSTERS
ILLUMINATOR ADJUSTERS
MECH ZERO = FULL CW, BACK 5.5 TURNS
DO NOT OVER TURN ADJUSTERS

TOP = ELEVATION
SIDE = WINDAGE

CW TO STOP
5.5 TURNS CCW
FRONT FLANGE
CHARACTERISTICS

Left side mounted UP/LEFT = CW

Top side mounted UP/RIGHT = CW
CHARACTERISTICS

ZEROED ← ILLUMINATOR → UNZEROED

AIMING POINT FILTER - SMALLER & REFINED

ILLUMINATOR FILTER - EXPANDS & DISPERSES

WARNING: SIGNATURE INCREASED WITH NVD’S IN SMOKE, RAIN AND FOG
ZERO YOUR ILLUMINATORS
CHARACTERISTICS

MILES ADAPTER

20” REMOTE

12” REMOTE

BRACKET ASSEMBLY

RETAINER STRAP
CHARACTERISTICS

Insight Rail Grabber

You must use the slot to tighten the rail grabber
Tighten during initial mounting
Retighten after the first 3 round shot group
CHARACTERISTICS

Picatinny Rail Grabber

You must double click the rail grabber
Tighten during initial mounting
Retighten after the first 3 round shot group
PMCS on the AN/PEQ-2A

- **Dirt** - Remove any lose dirt and wipe off outer case
- **Damage** - Broken casing or Broken lens
- **Moisture** - look through lenses for condensation or wetness

Inspect battery caps:
- Caps present
- Threads clear
- O-rings present
- Battery fresh

O-rings waterproof the PEQ-2A
Ensure lens caps are not cracked or missing
PMCS
TROUBLE SHOOTING

1. PUSHED ACTIVATOR SWITCH, WON’T COME ON
2. TURNED ON SELECTOR SWITCH WON’T COME ON
3. AN/PEQ-2A WON’T STAY ON CONTINUOUSLY
4. TOO MUCH BLOOMING ON ZERO TARGET
5. AIMING LIGHT TOO DIM DOWN RANGE
6. ILLUMINATOR IS NOT ON
7. YOU CAN SEE TWO AIMING POINTS DOWN RANGE
8. IN DUAL LO YOU CAN’T FIND THE ILLUMINATOR
9. ILLUMINATOR DOESN’T ILLUMINATE AIMING POINT
10. IN DUAL LO YOU GET TWO AIMING POINTS

OR
REDUCE THE ILLUMINATOR SIZE
AN/PEQ-2A into Operation
M16A1/A2 and M4Carbine  M16A4/Modular Weapon System
USE SLOT TO TIGHTEN

NOTE: Upper heat shield must be modified by D.S. Tighten screw nearest front sight first
AN/PEQ-2A into Operation
M16A4 and Modular Weapon System

Use slot to tighten
or
Tighten 2 clicks

Zero Retention
Must use the same slot
Rail Grabber & Rail only

Note Locking bar position

If you remove the PEQ-2A from rail grabber
you will not retain zero

Top or left mount
Remove heat shield
Push in on detent and slide off adapter rail
SAW WITH IFTC
OPERATION 249

Units without TWS will use PVS-4 mount w/ spacer
New M-249s will come with the new feed tray cover
OPERATION 240B

Laser off and install batteries
Mount rail grabber on PEQ-2A (Use slot)
Mount rail grabber onto Picatinny rail

NOTE: TIGHTEN RAIL GRABBER UNTIL IT CLICKS TWICE OR USE SLOT TO TIGHTEN
OPERATION
M16/M4 ADAPTER

MILES ADAPTER

Insight Rail Grabber only
ZERO THE AN/PEQ-2A at 25M
WINDAGE & ELEVATION

1 CLICK ON ALL ADJUSTERS = 1 cm AT 25M

TOP = ELEVATION
SIDE = WINDAGE

TOP MOUNTED CW = UP/RIGHT

LEFT MOUNTED CW = UP/LEFT

ILLUMINATOR ADJUSTERS

AIMING POINT ADJUSTERS
STORAGE CONFIGURATION

RETURN AN/PEQ-2A

Remove Batteries

Rail Grabber tightened

Put all of the accessories back into the bag

Remove filters from illuminator and aiming point

Return AN/PEQ-2A back into bag
ZERO PROCEDURES
M16A1/2 AND M4 CARBINE

INSIGHT

NOTE: RETIGHTEN PEQ-2A AFTER INITIAL 3 ROUND SHOT GROUP

TOP
UP .5 LEFT 1.5
ZERO PROCEDURES

M16A4 and M4 MWS

INSIGHT

TOP
UP .5 LEFT 1.5

LEFT
UP 3 RIGHT 3

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP
ZERO PROCEDURES

M16A4 and M4 MWS

PICATINNY

ZERO TARGET DATA
1. Rotate rear sight elevation knob to the 8/3 setting, then up (right) one click past the 300 mark, for zeroing at 25 meters.
2. Aim at target center, adjust sights to move shot group center as close as possible to the white dot in center of the target.
3. After completion of the 25 meter zero, rotate the rear sight elevation knob back one click to the 300/600 meter mark, the weapon will be zeroed for 300 meters.

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP

TOP
DOWN .5 LEFT 2

LEFT
UP 2 RIGHT 4.5
ZERO PROCEDURES

M249

INSIGHT

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP
ZERO PROCEDURES

M249

PICATINNY

TOP
DOWN .5 LEFT 1.5

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP
ZERO PROCEDURES

M240

INSIGHT

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP

TOP
UP 6.5 LEFT 1.5
ZERO PROCEDURES
M240

PICATINNY

TOP
UP 4.5 LEFT 1.5

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP
ZEROING PROCEDURES

ADJUSTERS

AIMING POINT
ELEVATION  1=1cm@25 METERS
WINDAGE    1=1cm @25 METERS

ILLUMINATOR
ELEVATION  1=1cm@25 METERS
WINDAGE    1=1cm @25 METERS

Note: Field zero the illuminator
Don’t field zero aiming point

ALL WEAPONS
25 METER ZERO PROCEDURES
ALL WEAPONS

1. PUT AN/PEQ-2A INTO THE LO MODE WITH FILTER (ONLY)

2. RETIGHTEN RAIL GRABBER

3. FIRE A THREE ROUND SHOT GROUP (ALL WEAPONS)

4. TURN OFF LASER

5. INSPECT TARGET

6. MAKE NECESSARY ADJUSTMENTS

NOTE: RETIGHTEN AFTER THE FIRST SHOT GROUP FIRED

REPEAT 1-6 UNTIL 5 / 6 ARE WITHIN THE 4 CM SQUARE (M4/16)
REPEAT 1-6 UNTIL 5/12 ARE WITHIN THE 4 CM SQUARE (M249)
REPEAT 1-6 UNTIL 5/12 ARE WITHIN THE 4 CM SQUARE (M240)
Engage Targets with the AN/PEQ-2A

SCANNING
IR DISCIPLINE
WALKING
EQUIPMENT AND POSITION
Engage Targets with the AN/PEQ-2A

FOUR FUNDAMENTALS:

1. STEADY POSITION:
   - M16A1/2/4, M4 AND MWS:
     NO MORE CHEEK TO STOCKWELL
   - M249/240B
     POSITION TO CONTROL GUN AND SEE TARGET

2. AIM (ALL WEAPONS) CENTER MASS

3. BREATH CONTROL (ALL WEAPONS) NO CHANGE

4. TRIGGER CONTROL (ALL WEAPONS) NO CHANGE
Qualify with the AN/PEQ-2A M16A2/4, M4 AND MWS:

FF2 - 50, 150 & 250 METER TARGETS
SCANNING
IR DISCIPLINE
WALKING
EQUIPMENT & POSITION ADJUSTMENTS

PRACTICE QUAL 50M – 250M
RECORD QUAL 50M – 250M

STANDARD 17-23, 24-34 AND 35-40 TO QUALIFY
Qualify with the AN/PEQ-2A M249

FF 100 – 400 METER TARGETS
SCANNING
IR DISCIPLINE
WALKING
EQUIPMENT & POSITION ADJUSTMENTS

PRACTICE QUAL 100M – 400M
RECORD QUAL 100M – 400M

6 out of 11 TO QUALIFY
Qualify with the AN/PEQ-2A M240B

FF 200 – 600 METER TARGETS
SCANNING
IR DISCIPLINE
WALKING
EQUIPMENT & POSITION ADJUSTMENTS

PRACTICE QUAL 200M – 600M
RECORD QUAL 200M – 600M

6 out of 11 TO QUALIFY
Qualify with the AN/PEQ-2A

Practical exercise

A. WALK THROUGH
   PMCS
   MOUNTING PROCEDURES
   AN/PEQ-2A OPERATIONAL PROCEDURES
   ZERO PROCEDURES AT 25 METERS
   SHOT GROUP ANALYSIS

B. ASK QUESTIONS

Practical exercise evaluation  GO/NO GO
Qualify with the AN/PEQ-2A

Score at least of 14/20 questions on written test

Meet qual standards with your assigned weapon

SUMMARY

REVIEW WRITTEN EXAM

ANSWER QUESTIONS

QUALIFY WITH THE AN/PEQ-2A
BORESIGHT THE AN/PEQ-2A
WINDAGE & ELEVATION

ILLUMINATOR ADJUSTERS

AIMING POINT ADJUSTERS

TOP=ELEVATION
SIDE=WINDAGE
BORESIGHT PROCEDURES
M16A1/2 AND M4 CARBINE
USE OFFSET FOR SELECTED WEAPON

STABILIZE WEAPON (CRUCIAL)
ZERO BORELIGHT
BORESIGHT AIMING POINT WITH NVGs
BORESIGHT ILLUMINATOR WITH NVGs (NARROW BEAM)
BORESIGHT PROCEDURES
M16A4 and M4 MWS

STABILIZE WEAPON (CRUCIAL)
ZERO BORELIGHT
BORESIGHT AIMING POINT WITH NVGs
BORESIGHT ILLUMINATOR WITH NVGs (NARROW BEAM)
BORESIGHT PROCEDURES
M249/60/240B

STABILIZE WEAPON ON TRI-POD AND T&E (CRUCIAL)
ZERO BORELIGHT
BORESIGHT AIMING POINT WITH NVGs
BORESIGHT ILLUMINATOR WITH NVGs (NARROW BEAM)
Zero with the AN/PEQ-2A M16A1/2/4, M4 and MWS

**NOTE:** A LIVE FIRE ZERO CONFIRMATION OF THE OFFSET IS NOT NECESSARY IF BORESIGHTED RETIGHTEN AFTER INITIAL 3 ROUND SHOT GROUP
ZERO M249

STABILIZE WEAPON ON TRI-POD AND T&E (CRUCIAL) BORESIGHT AN/PEQ-2A TO WEAPON CENTER ILLUMINATOR ON AIMING POINT

NOTE: RETIGHTEN AFTER INITIAL ROUND IS SHOT
ZERO M240B

STABILIZE WEAPON ON TRI-POD AND T&E (CRUCIAL)
BORESIGHT AN/PEQ-2A TO WEAPON
CONFIRM ZERO AT 500M (MAKE FINE ADJUSTMENTS)
CENTER ILLUMINATOR ON AIMING POINT

NOTE: RETIGHTEN AFTER INITIAL 3 ROUND BURST
AN/PEQ2A WITH MILES BRACKET