



Sniper Conference Attendees	
• 1st, 3rd, 5th, 7th, 10th, 19th, and 20th GRP OPS DET Sniper personnel • 5th GRP CIF Sniper SME • 7th GRP CIF Snipers SMEs • 10th GRP CIF Sniper SMEs/SGM • SWC Sniper Cadre • CAG Sniper SMEs • 75th Ranger Regiment Sniper LNO/Sniper SME • AWG Sniper SME • MARSOC Sniper SME • USAJFKSWC DOTD/TDD • USASFC G3 SGM	• USASFC G7 • USA5OC G8 • PM Soldier Weapons • NAVSEA SOPMOD PMO Crane • Crane USSOCOM Customer Advocate • GAPO • USSOCOM PED-SP • TSWG CTTSO • Wexford Group • TRADOC ARCIC • PM Soldier lasers and sensors • SRD USAIC
87 Participants	
5010100000 Range 27 18 JUN 2008 0000 - 0000 0000:00 Scale 2.0" 40	

Range 37 Sniper Conference Intent

Purpose: To build rapport within the sniper community while establishing a road ahead for the education, sustainment, and development of the modern day sniper and their equipment.

Key Tasks:

- Build rapport among the sniper community
- Educate sniper community on the organization, support, sustainment, and employment of sniper units/Sniper support organizations.
- Establish relevant solutions to current issues by comparing current directives with real world requirements.
- Use a one voice approach when possible when establishing requirements.
- Develop repairs/enhancement to current Sniper systems
- Develop requirements for 21st Century Sniper Team organic equipment
 - PSR and organic components
 - Observer - Sniper Support Weapon / Designated Marksman Rifle and organic components
 - Organic Day/Night Observer Equipment
- Establish a central hub for the exchange of all information relating to snipers.

Endstate: Sniper community speaks with one voice on the road ahead for the education, sustainment, and development of the modern day sniper and their equipment.

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Sniper Issues

SGM Gould, Range 37
19 Jan 2008
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Sniper Issue # 1 Procurement

• Finding

- An educated and factual consensus amongst the current and relevant sniper community need be harnessed before decisions are made.
- It is paramount that the 21st century sniper community work in unison with one voice where possible.
- No one service makes decisions for another on sniper issues that impact other services and organizations.
- Make decisions based on facts not hearsay or opinions.
- SME's from all branches need to be used to bridge the gap between Requirements Documents and the "scientists" that design and develop IAW those documents.
- If procurement and development assets do not get feedback due to CPTMFC with Sniper SMEs then go to them, do not rely on feedback in official mails based on deadlines. This has always resulted in decisions at procurement agency levels being pushed at the last minute without all the relevant information.
- Procurement process should allow updated equipment be injected in the fielding process.

SCIP00002 Range 27
 18 Jan 2005
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Sniper Issue #2 Range

- Finding

The required capability to meet current mission and mission support requirements (Not specifically within one shot)

Interdict enemy personnel / positions / non-technical vehicles with crew served weapons out to 1500 meters / 1640 yards

Defeat Level 3 body armor out to 750 meters / 820 yards

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Sniper Issue #2 Range

• Finding

Realistic and reasonable expectation of first round hit capability based on weapons/ammo, ability to judge correct range within trajectory danger space to result in a hit and ability to judge environmental effects that effect horizontal dispersion with currently issued equipment. This assumes the shooter has sustained his advanced marksmanship and sniper skills.

M107 50 cal - DAY 300 meters NIGHT 300 meters

M110 SASS - DAY 550 meters NIGHT 400 meters

M24 SWS - DAY 600 meters NIGHT 450 meters

MK13 - DAY 700 meters NIGHT 500 meters

.338 Lapua Magnum rifle - DAY 800 meters NIGHT 600 meters

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Ballistic Comparison

[illegible]

9/20/2006 Range: 1
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UPR: 0000-000-00
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[illegible]

Realistic capabilities simplified

Parameters

- #1 = range limitation where a 0.1 Mil error in range determination with a mil reticle subtends to missing a 20" kill zone (torso)
- #2 = max Range capability based on miss estimation of wind speed

7.62 Weapon firing M118LR at 2500fps

#1 = 625m

#2 = 1mph error max 1000m, 2mph error max 714m, 3mph error max 625m

300 Magnum Weapon firing A191 at 3000fps

#1 = 750m

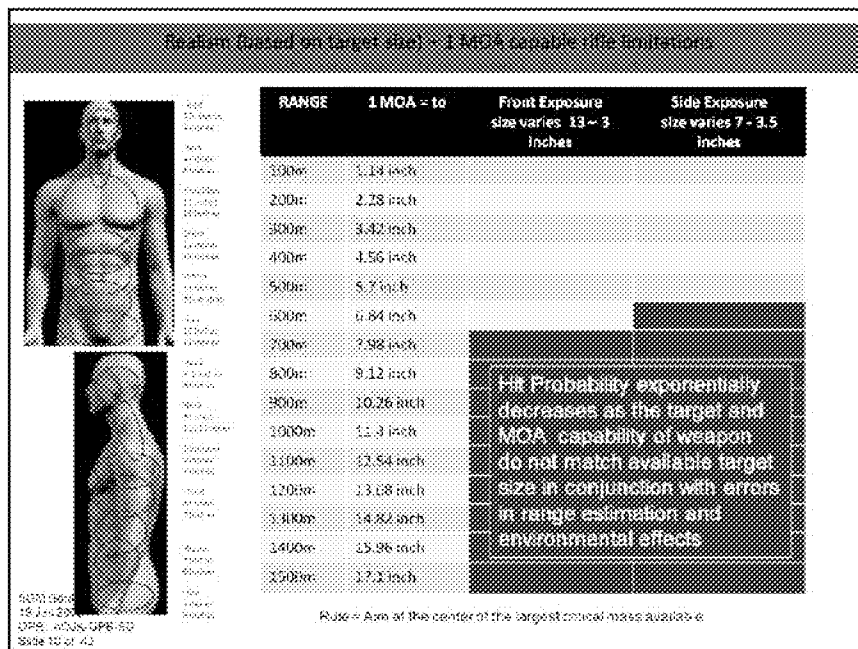
#2 = 1mph error max 833m, 2mph error max 625m, 3mph error max 500m

.338 Lapua Magnum (used by 17 countries snipers worldwide) firing a 300gr HPBT, BC .768 at 2800fps

#1 = 800m

#2 = 1mph error max 1250m, 2mph error max 1000m, 3mph error max 900m

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Sniper Issue #3 VAS

- Finding

- Current Day Spotting Scopes do not allow accurate determination of environmental effects beyond 800m.

- MK13 has an max effective range of 1100m, this range cannot be exploited with current systems beyond observing shot impact and making burst to target corrections

- .338 magnum weapons have Max Effective range of 1500m, this range cannot be exploited with current systems beyond observing shot impact and making burst to target corrections

- Current Night Vision Systems do not allow determining environmental effects beyond 500m or identifying targets clearly as combatant or non-combatant beyond 400m.

- Exploiting IR Augmentation illuminators to gain additional range capability with current NVD systems cannot be used with regularity as the enemy now has IR detection capabilities.

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Sniper Issue #3 VAS

- Finding

•To ensure Snipers can exploit sniper systems Maximum Effective ranges during daylight hours and up to 75% of their capability in night conditions new and enhanced Day and Night Visual Augmentation is required. This includes the following;

- A laser range finder that can determine target range of a man with as little as 10% reflection to 2000m

- A laser device that can determine environmental effects accurately (CARPA One Shot Program)

- Thermal /IR night site with clarity to see environmental effects, determine combatant or non-combatant out to at least 75% of the weapons Maximum effective range

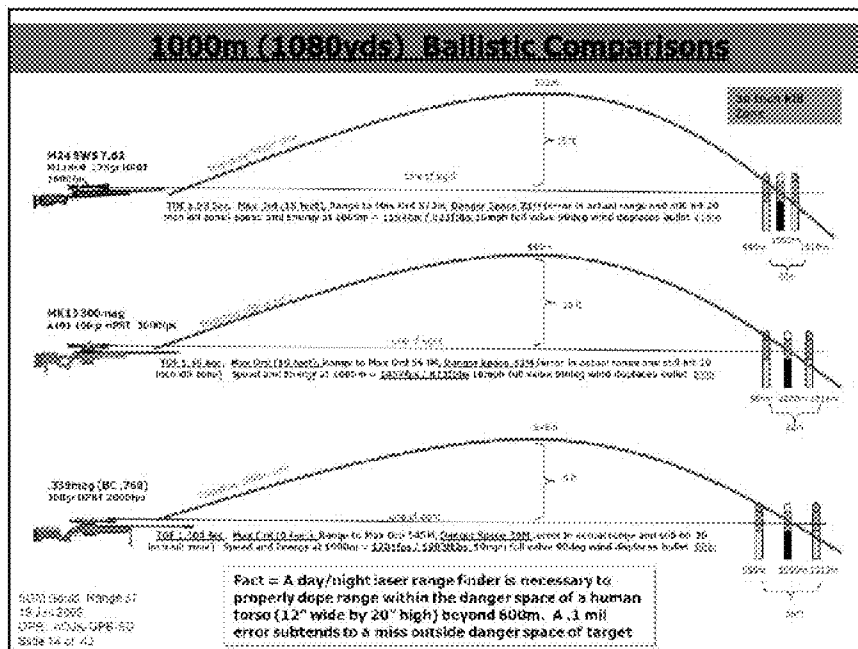
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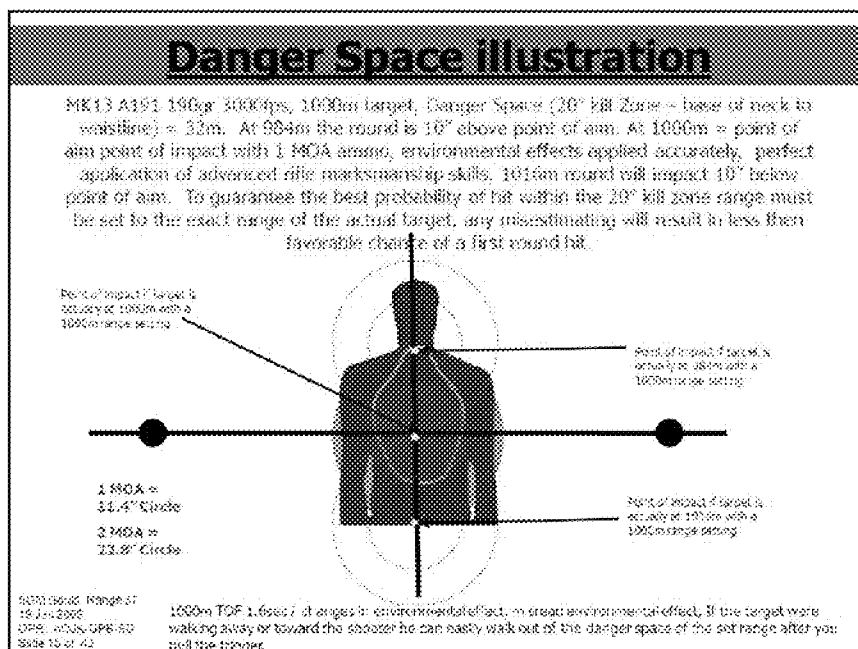
Sniper Issue #4 Laser Range Finder

Data/discussion to justify absolute requirement for a sniper to have a laser to determine range to the target

Sniper Req. a sniper does not always have the luxury to take time to set and determine range. This often results in the sniper having to guess the range to the target. This often results in range estimation which results in a target miss at long range. Increasing the immediacy and effectiveness of the long range sniper rifle on target almost immediately results in target destruction and lethal engagement increasing hit probability during the close range cycle.

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OPR: ADON/DPE/SD
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Sniper Issue #5 Sniper less Observer

• Finding

•In the current fight snipers are often employed as singletons or simply carry with them their sniper system in the event it is needed. These operations require the sniper to conduct observer responsibilities as well as interdiction. Result;

•Each sniper needs to be issued all organic equipment required to exploit their sniper rifles capabilities. These systems need be mounted on the weapon system so it can be used unilaterally. This includes;

- A clip on laser range finder that allows accurate ranging of a man with as little as 10% reflection to the weapons maximum effective range
- Night thermal/IR sights
- IR flood/seek illuminator to exploit limitation in IR sight shortfalls

A sniper rifle is system and needs to have all items organic to exploit the rifles capability

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Current Sniper Shortfalls, Recommended solutions

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M-110 SASS (Replaces M24)

M110 SASS (15 lbs, 17 lbs w/ supp, 47.25" long w/ supp)
 RANGE - 1 MCA to 600m/675yds



Shortfalls:

Current First Focal Plane scope, does provide 10x
 Scope mount will not allow placement of scope to get correct eye relief
 Scope mount powered out onto front rail off stable upper receiver
 2 stage trigger - affects accurate identification and creates confidence for exposure targets.
 incorrect, inconsistent trigger setting - requires shooter to read the trigger before firing - away from the
 range - difficult under stress with four day personnel in the vicinity of the target
 Second stage break over
 Cheated too thick on rails - scope base attachment and rail without joint removal
 Rail forward bent in last round (after a pressure check)
 Rails and bolts falling off during shooting
 Frequent crawling back
 Inexpensive built right for short range identifier
 Not organic, Laser not organic
 No organic IR illuminator - Single IR clip dependent
 Not built capable of identification to 600m effective range
 Suppressor is too long and will not install zero when getting on and off

Recommendations

Replace scope with 4-16x First Focal plane variant with 6.1 mil adjustments
 Replace scope mount with a mount that allows scope to be placed IAW eye relief needs and still
 attach to the upper receiver, add MRD with and mounting solution, replace 2 stage with single
 stage trigger, Replace stock with collapsible, adjustable LCP and Comb type, Outfit with laser
 rangefinder and Long Range IR clip on scope (PVS-27)

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M-24 SWS

Part no. 1 for 1 M24 SWS
 USAF/AF on hand

M24 SWS (13lbs / 43" long)
 RANGE - 1 MOA to 800m/875yds



Shortfalls:

- scope: one power (5x)
- scope to mount 600 on bases
- No adjustable cheek piece
- No integral MRD sight for short range shooting
- 600mm cheek piece break
- No integral suppressor
- No integral laser rangefinder
- 600mm IR (3.4 micron) - Sniper only range marker
- No M24 capable of transition to short effective range

Recommendations

Replace scope with 5-25x First Focal plane variant with 0.1 mil adjustments

Replace stock with AI stock and MARS rail identical to MK13 or Remington M40/PSR type monolithic stock, re-barrel with barrel affixed recoil reducing muzzle break and integrated suppressor, add MRD with and mounting solution, Outfit with laser rangefinder and Long Range IR clip on scope (PVS-27)

Maintain Weapons in full course and cadre numbers at OPS Dets for training

600mm Range 27
 18 Jan 2000
 OPS - AFOS, OPB/50
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MK-13 300 Mag

MK13 (17lbs / 47.5" long)
 RANGE = 0.8 MOA to
 1100m/1200yds



Shortfalls:

- One eye, main power 15x, second focal plane, no means to determine elevation (perfect form basis only)
- No night vision device
- Trigger breaking inconsistent, set at varying pull weights right up to the end
- Spring disbond on holding stock release comes loose and is easily lost
- WABH rail failure
- Suppressor does not consistently suppress effect on target
- Recoils faster than 1000 to 1300yds
- No optical laser rangefinder
- Swedish 3x40mm (300gr) range-finder
- Not able to determine elevation to near effective range

Recommendations

- Replace scope with 5-25x First Focal plane variant with 0.1 mil adjustments
- Replace stock Remington M40/PSR type monolithic stock, re-barrel with barrel affixed recoil reducing muzzle break and integrated suppressor, add MRD with and mounting solution, Outfit with laser rangefinder and Long Range IR clip on scope (PVS-27). Develop a High BC 210gr bullet to improve rifle performance.

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M107 Barrett .50 cal

M107 (36.9lbs, 57" long)
 RANGE ~ 1830m max effective
 3 MOA accuracy with M33 Ball, 1 MOA with Grade A MK211
 In use in over 17 countries



Shortfalls:
 Second focal plane scope, max power 19x
 Inconsistent scope
 No integral laser rangefinder
 No optical IR detector - longer long range precision
 No IR/AR means of indication to max effective range
 Training ammunition that matches MK211 Ballistics

Recommendations
 Replace scope with 5-25x First Focal plane variant with 0.1 mil adjustments
 Outfit with laser rangefinder and Long Range IR clip on scope (PVS-27)
 Develop Training ammunition that matches MK211 ballistics

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Observer Systems & Kit

Shortfalls

No program of record

Very weak definition (Resolution), no redundancy

Current Observer kit will not allow day/night range and environmental effects at current/next weapons maximum effective ranges

Recommendations

Develop a program of record Observer kit – supports current weapons and growth of FSR

10-60x spotting scope with HORUSI 32 reticle mounted in lower 1/2 of scope, first focal plane

Enhanced clarity and resolution is key, Scope has video and still capture capability – video out controls, coarse and fine focus ability

Day/night Laser range finder +/- 1 M to 2000m (man size with 10% reflection)

Device provides Angular deviation, Compass azimuth, Grid at target

PDA with ballistic software – Wireless link with Weather station

Kestrel 3500 weather instrument (station)

IR Illuminator

NVG/Thermal or fused scope capable of friend or threat locating and Id at weapons

Maximum effective range

Small Light weight stable/Durable Tripod (adjusts 5 – 18 inches)

Large light weight stable/durable tripod (adjusts 12-72 inches)

1/4 – 20 thread attachment hub/head (Manfrotto flexible tool head)

Picatinny rail/cage that houses spotting scope, range finder, Illuminator, and Clip on NVG/Thermal in front of spotting scope and clip on camera in front of scope (allows all items to be bore sighted together)

Sniper Log book

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Sniper Rifle/Team Requirements

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Generic Sniper Rifle Selection Criteria

General Parameters:

- Tolerable Weight and overall size for the mission = Objective (O) 14lbs Threshold (T) 18lbs
- Ammunition meets terminal ballistic requirements at max effective range and has a variety of proven capabilities (O) defeat Level 4 Body Armor at 100% of Maximum Effective range, (T) level 3 at 65% Max Eff. Range.
- Recoil/concussion effect that will not interfere with shooter or observer or act as a tool for enemy to locate the sniper
- Recoil suppression muzzle break that integrates with QD locking Suppressor
- Magazine fed (5rds minimum)
- Need be durable and simple so it can be employed easily under dire stress and physical duress
- Adequate rails on all sides for clip on devices and VAS. Top Rail will have 20 MOA cant from back to front and run the length of the receiver and stock
- Visual Augmentation organic to the system that allows fine aiming and range adjustment to maximum effective range day and night
- Mass production that can meet the capabilities to ensure the rifle can shoot 1 MOA (O), 1.5 MOA (T) at costs that are reasonable for the end product.

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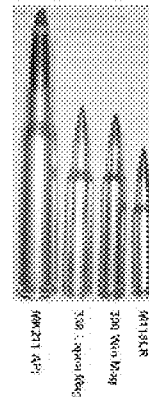
Specifications for the Long Range Sniper Rifle (PSR)

- Caliber = current production caliber with .338 capability (.338 in use in over 21 countries – exponentially increases hit probability at short ranges. Carbin .338 ammo cost \$3 dollars a round and attains 1/2 to 1/4 MOA).
- Action = Bolt Action, Heavy duty
- Range = 1500 meters
- Accuracy = Objective 1 MOA group size – not mean radial dispersion. Threshold 1.5 MOA
- Suppressor = Quick detach (QD) w/ minimum 30% recoil reduction muzzle break that remains fixed. No deviation from zero with suppression on or off.
- Trigger = Single Stage adjustable for weight 3-5lbs, creep, and over travel
- Weight = fully loaded w/ scope, bi-pod and sling = objective 14lbs, threshold 18lbs
- Length = Stock extended with suppressor not to exceed 50in
- Multiple Barrel configuration = lengths based on optimal performance of ammunition, not to exceed 27" maximum, minimum 300000 barrel life (7.62, 300 mag, .338 like barrels and bolts)
- Magazine = detachable, min load 5 rounds and allow 10A variants in chosen ammunition
- Stock = see Stock recommendation slide
- Visual augmentation = See VAS recommendation slides
- Removable Bi-pod front, mono-pod rear – height and cant adjustable, quick lock
- Sling = allow tactical carry and comfortably on the back
- Hard carry case = store rifle and support equipment for overland/air transport

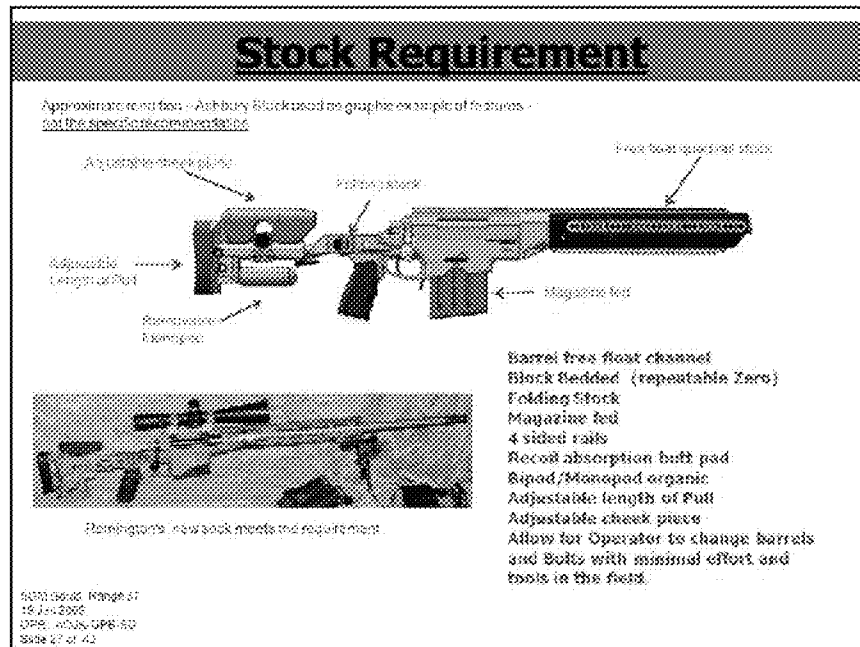
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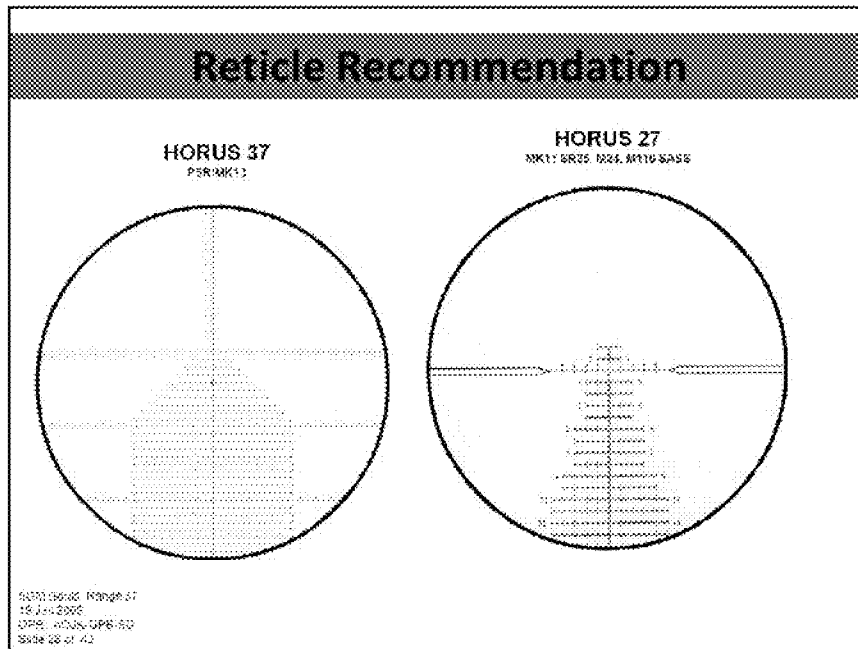
Sniper Caliber Selection Parameters

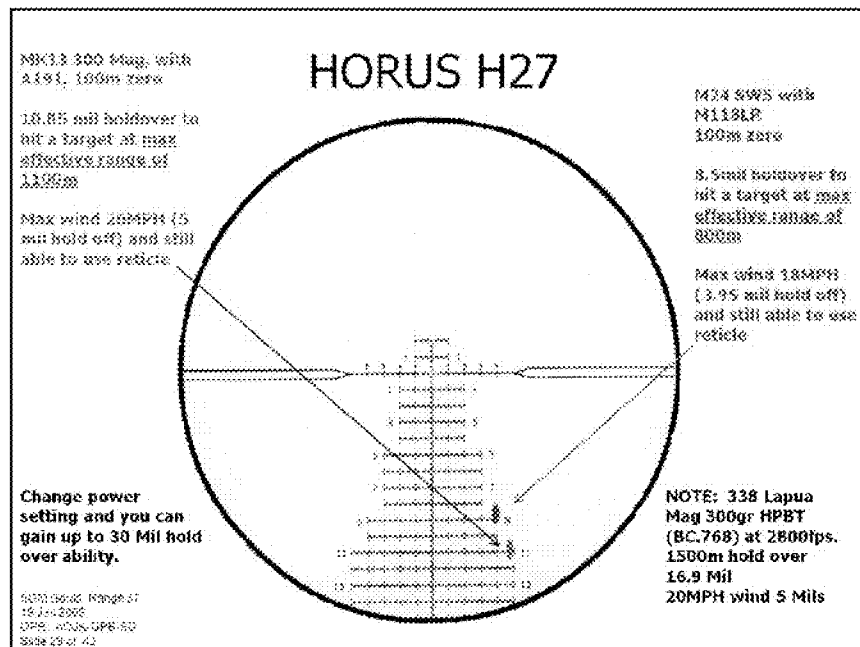
- Adequate Terminal Ballistic qualities to penetrate Level IIIA with Level III plate and kill/disable the target at 50% Maximum Effective Range
 - M24 = 490m
 - Mk13 = 350m
 - 338 = 750m
 - 50 cal = 900m
- Have a low trajectory to allow for larger danger space and range estimation errors (this correlates to speed and high BC) See danger space illustration for clarity.
- Have a speed and weight that can negate environmental effects beyond that of standard ammunition (Function of Speed / High BC) See Danger Space illustration for clarity.
- Not be sized to interfere with mission requirements / quantities carried by the individual. A basic load of 120rds min.
- Allow for mass production with 1.0 MCA capability at reasonable costs
- Barrel life to exceed 3000rds. Maintain 1.5 MCA at 3000rds.



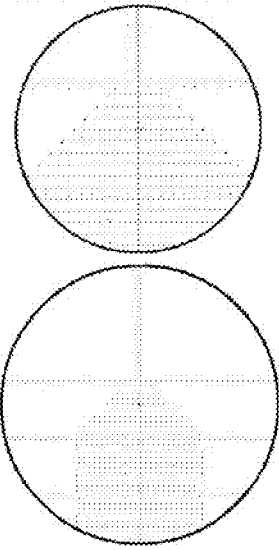
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HORUS H37



MR13 300 Mag, with
A191, 100m zero

10.85 mil holdover to
hit a target at max
effective range of
1100m

Max wind 39MPH (10
mil hold off) and still
able to use reticle

Ideal for excessively
high winds with
accurate holds. Ideal
for sloping meyers
speeds. Ideal for
accurate mil ranging.
Ideal for "burst to
target" second shot
hits w/ or w/out an
observer

Scout Scope Range 27
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M24 SWS with
M118LR
100m zero

8.5mil holdover to
hit a target at max
effective range of
800m

Max wind 45MPH
(10 mil hold off) and
still able to use
reticle

NOTE: 338 Lapua
Mag 300gr HPBT
(BC.768) at 2800fps.
1500m hold over
16.9 Mil
38MPH wind 9.96
Mils

Change power
setting and you can
gain up to 30 Mil hold
over ability.

Scope requirements

Power range 5x to 25x (4-8x to 24-26x)
 First Focal Plane reticle
 HORUS 37 reticle
 0.1 Mil Elevation and windage adjustment
Turret rotation -- American standard
 Zero Stop on windage and elevation
 Tactile clicks on windage and elevation
 Streamline Windage Turret (Zero use only, capped)
 Lockable Elevation turret
 Single Turn Turret (minimum 10 mil/revolution)

 N11818, 2540px, 80,565, 306m Max EH Range = elevation 3.3 mils
 A191, 3680px, 80,519, 1160m Max EH Range = elevation 16.2 mils
 J38, 309px HRET, 2680px, 80,769, 1504m Max EH Range = elevation 16.7 mils

 Parallax adjustment on turret (not on objective lens)
 Laser safe, anti-reflective coatings/filter
 50-56mm objective lens
 34 - 36mm tube
 Toolless zero (Optional)
 Illumination (Optional)

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 QP65, H0505, QP65-50
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Additional Scope requirements

20 MOA picatinny ring base

Removable rings (non-marring - clamping - attachment that allows repeatable zero when removed and reattached)

Angle indicator

Cant indicator

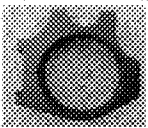
Protective flip open caps

Miniature Red Dot back up sight / 34mm ring mount

Angle Cosine Indicator



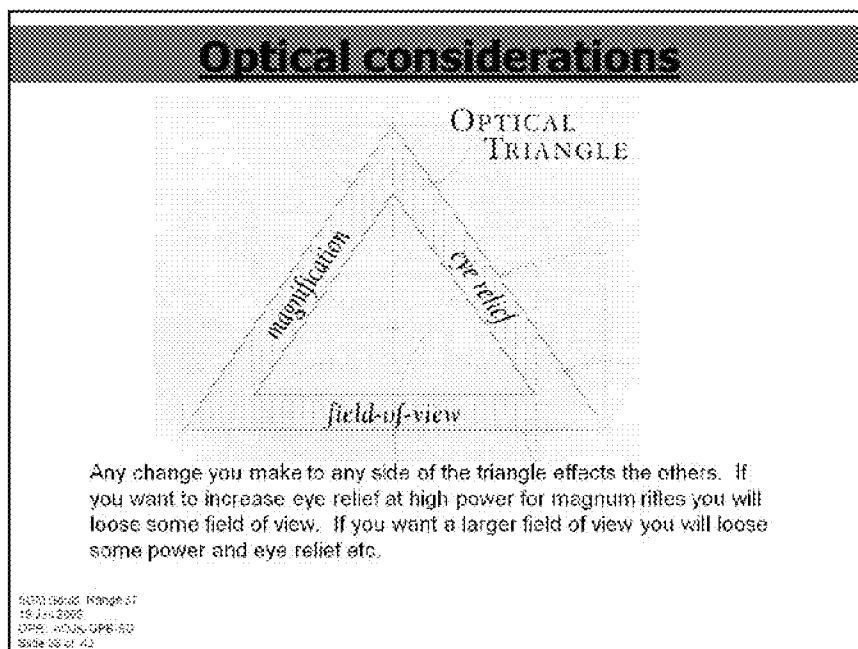
Combination 34mm Anti Cant (bubble level) - Cosine Indicator Bracket



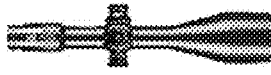
Bubble Level - Picatinny



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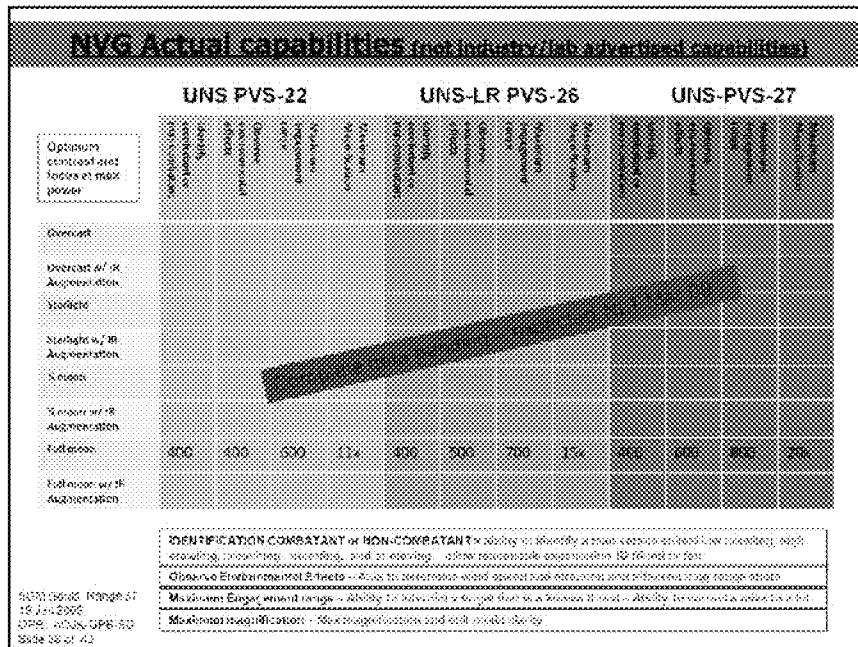
Possible Scope Solutions

Schmidt & Bender 5-25 x 56 Front Focal, 0.1 Mrad adj, 34mm tube, 3.3" eye relief, 15.2" long. 	Leupold Tactical 8.5-25x50mm Front Focal, locking turret, 34mm tube, 3.3-3.7" Eye relief, 14.4" long 
Night Force 5.5-22 x 56 30mm tube 3.9" eye relief, 16.1" long. 	Premier Heritage 5x25X50 Tactical, Front Focal, 0.1 Mrad adj, 34mm Tube, 3.5" eye relief, 13.6" long 
US Optics 5x25 x 58mm, Front Focal 35mm tube, 1.5" eye relief, 19" long. 	Zeiss 6-24 x 56, 34mm tube 3.3" eye relief, 15.3" long. 

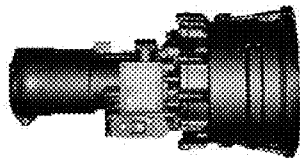
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Night Vision Comparisons and Recommendation

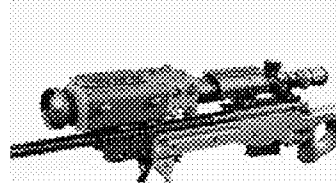
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IR/Thermal Sight Recommendation



PVS-27
Shoot with Illuminator
to 1000m



FLIR HISS
Shoot to 1200m

Finding — Until technology can meet the requirement — prefer IR and Thermal stay separate and not fuse. Today's Fused Devices do not maintain range capabilities of the base device — i.e. the fused sight built on the PVS22 platform does not retain the range clarity capability of the base PVS22, therefore it is not an enhancement for a sniper.

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OPR: AOS/DPB/SP
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Recommended Sniper Observer Kit

**Larue Tactical
Observer kit (2.4x
complete)**



Legend: N/A
12890060
10881532

Mounted on Tripod/observer scope



925-21



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FLORIAN BOES
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Intel® Technology
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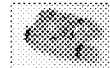


439 325x3



Vectorworks
PLR150
(7.5X)

For rapid handheld laser use
10% reflection
100m max range
40% reflection
1500m max range



LA-SPEQ
ADDAAL
target
elimination

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The Way Ahead

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Future conference/events

- The Next Conference is tentatively scheduled for 7-11 Dec 09. Conference will request attendees from all services and sniper school cadre to include PMs involved in Sniper specific equipment procurement
- 1-4 Dec 2009 has been selected for a Sniper Competition that will involve a sniper team and coach from all JOINT parent and OCONUS units (ie. 1 x 10th Group Main, 1 x 1-10 in Germany, NSW Unit 2 CONUS and NSW Unit 2 OCONUS). These personnel may also attend the Sniper Conference

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OPAS - ACONUS, OPM/50
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Sniper Web site/portal

- In conjunction with Crane SFSC will construct a Sniper site on Defense Knowledge Online
- Permissions and submissions to the site will be for invited/vetted and recognized relevant Experts from all services
- All data will be scrutinized for quality and classification before it is posted
- It will allow sharing of lessons learned, Emergent TT&P, Schoolhouse Lessons and material
- It will allow exchange of information and questions from abroad.
- It will allow products and safety messages typically reserved for formal military channels to be posted in timely manor and ensure the user receives critical information.
- Site opening – TBD, estimated Summer 2009

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Future conference/web Issues

- Sniper Critical Tasks – Relevant tasks that must be taught at Schoolhouse(s) (CTRB)
 - SFSC can serve as a baseline
- Sniper Sustainment Training Guide (sustain and build on Schoolhouse tasks) (doctrine)
 - Stipulates minimum training time requirements
 - Stipulates/recommends facilities needed
 - Provides data for forecasting to meet sustainment needs
- Sniper Hide Site TT&P, construction/materials
- Training Facility shortcomings and requirements
- Counter Sniper –
- Specific Armsroom requirements, Storage, floats, PUL
- High Tech
 - Integral camera
 - Digital Scope
 - Auto adjusting integral sights (day night laser optic)
 - Laser guided munitions

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Products in development

- Sniper skill sustainment program guide
 - Training plan to Sustain and build on the advanced skills learned in Special Forces Sniper course
- Range Requirements outline
 - Range guide that outlines specific range requirement to support Sniper training
 - Ammo requirements to sustain training – will require a modification to the STRAC
- Commanders Guide
 - A current and relevant guide designed to educate leaders in Sniper employment and exploiting Sniper capabilities
 - Possibly Provide a Web based sniper employment/command and control course

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