







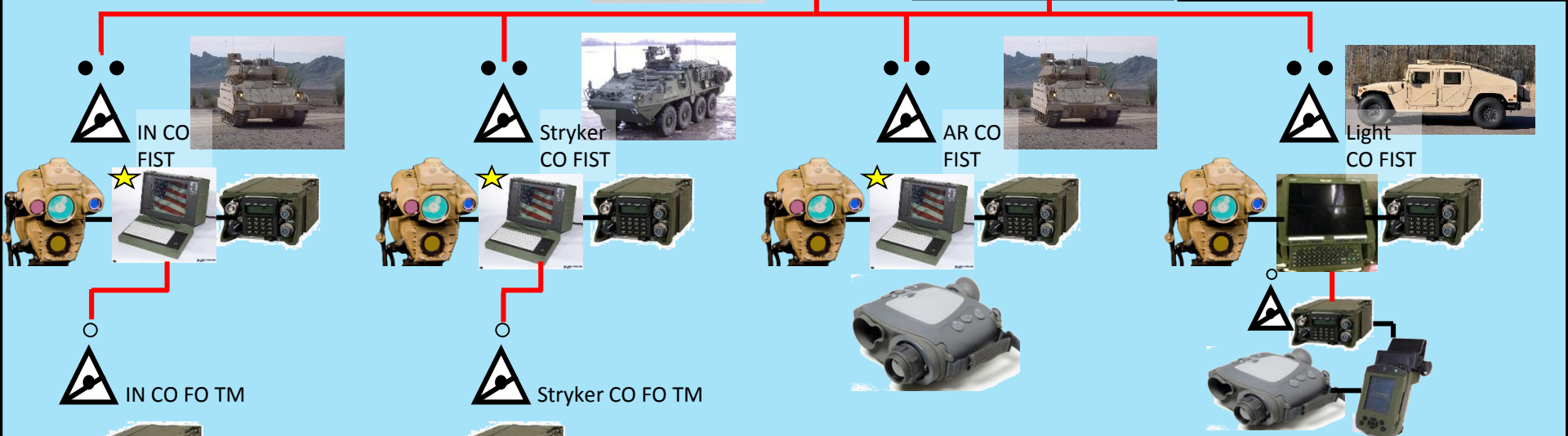
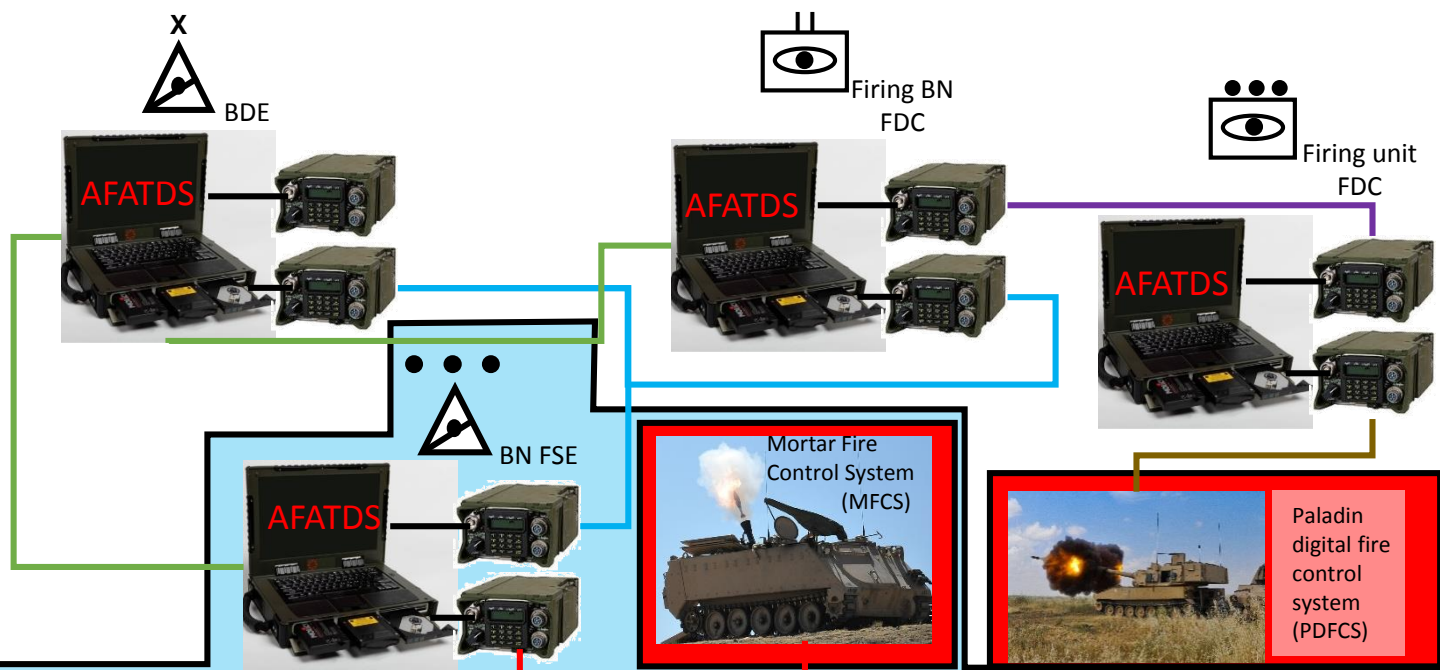


# ***Wolf Fire Support Essential Equipment Guide***



# Fires Digital Network Key

-  Direct Connection
-  Maneuver BN FM Digital Fires Net
-  BDE FM Digital Fires Net
-  LAN Network
-  FA BN FM Digital Fires Network
-  FA PLT FM Digital Fires Network



Stand Alone Computer unit (SCU W/ FOS)

LFED on RHC2-Lightweight Forward Entry Device (Runs FOS)  
 ★LFED can also be with the CO FIST in BFST/FSV

PFED V3-Pocket sized Forward Entry Device (Runs FOS)

Target Reconnaissance Infrared Geolocating Range Finder - TRIGR

# AFATDS (Advanced Field Artillery Tactical Data System)

## AFATDS 7.0 Key Functionality

- Commander's Guidance/New Maps (WorldWind, Open Map)
- Fire Support Planning & Attack Analysis
- Airspace Coordination & Clearance of Fires
- Artillery Target Intelligence Processing (ATI)
- Fire Mission Processing/Mixed Weapon Fire Unit
- Use of Intervention Points and Trigger Points
- Munitions Flight Path Graphic (Visual Coordination)
- ASL, ACO, and ATO Management
- Interface with ASIS/TAIS/AMDWS/RiSC2/TACP-CAS Airspace Management as well as C2IS/C2AOSMLRS/HIMARS Multiple Precision Aimpoint Processing
- New Sensors (Q-53, & Q-50 (LCMR))



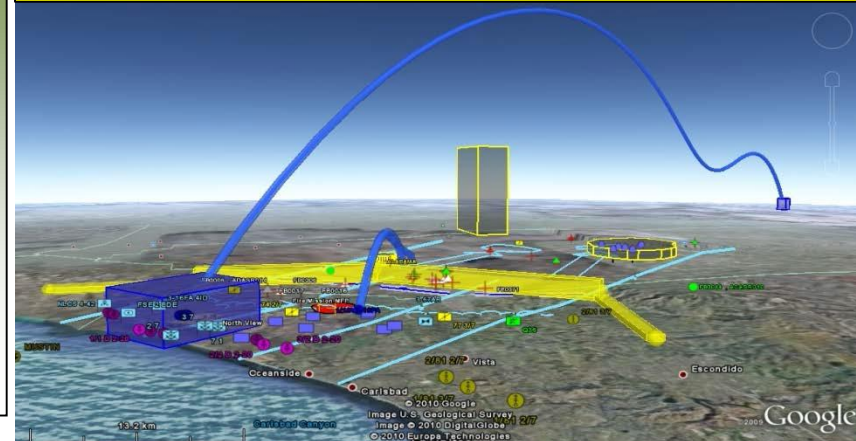
**Description:** AFATDS is a digitized and integrated battlefield management and decision support system that functions from firing platoon thru Echelons Above Corps. AFATDS serves as the Fire Support node of the Army Battle Command System (ABCS) and enhances survivability and Continuity of Operations (CONOPS) for the Joint Force Commander. Provides automation for all 27 Fire Support tasks. Provides the maneuver commander the maximum utilization of the Fires assets available throughout full spectrum of operations.

PM MC- PdD FSC2

Mr. Angel R. Acevedo Office: 443-395-1799 BB: 443-252-0770 DSN: 648-1799

Email: [angel.r.acevedo10.civ@mail.mil](mailto:angel.r.acevedo10.civ@mail.mil)

TCM Fires Cells: David Cavel, [howard.d.cavel.civ@mail.mil](mailto:howard.d.cavel.civ@mail.mil) (580) 442-5607





# Forward Observer System (FOS)



Ruggedized Handheld Computer (RHC) II (above) or a PSG-14A (Below) with FOS (Forward Observer System)  
This computer with FOS is a LFED

Is In



BFIST



Stryker FSV

PM MC- PdD FSC2  
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TCM Fires Cells – Software manager: Elliott Newton, [elliott.g.newton.civ@mail.mil](mailto:elliott.g.newton.civ@mail.mil) (580) 442-6839

Which allows them to use

Precision Strike Suite-Special Operating Forces (PSS-SOF)



**Output is precision calls for fire/air ground integration**



Digital Precision Strike Suite-Scene Matching (DPSS-SM)

- 1 Per FIST HQ (ABCT/SBCT/IBCT/BFSB)
- 1 Per Company FSO (FIST CHIEF -ABCT/SBCT/BFSB)
- 3 Per Precision Fires Team (PFT) (IBCT)

# LFED (Lightweight Forward Entry Device)

A LFED is a RHC2 (Ruggedized Handheld Computer) computer with the FOS software installed.

**Description:** The Forward Observer System is a multi-mode, user configurable software application which provides Fire Support Teams and Joint Fires Observers the ability to plan, control and execute fire support operations at joint and maneuver platoon, company, battalion and brigade levels.



- 1 per FIST vehicle if not equipped with a vehicle mounted SCU

Used at the Co FIST, normally mounted in the vehicle, but can be a dismounted system

# Stand-alone Computer Unit, AN/GYK-51



SCU Front View



SCU Back View

**Description:** The Stand-alone Computer Unit (SCU) is the FOS computer commonly installed in a M7 or M3A3 BFIST. Provides all the capability of the LFED with the FOS software and is fully integrated into the FS3 system in the BFIST. Allows a fully digital transmission from lasing target to digital call for fire via the FM digital network through a standard ACIP radio.

Used at the Co FIST, Cannot be dismantled tactically, but can be removed for LAN based classroom training on FOS.

- **1 per FIST vehicle if not equipped with a vehicle mounted LFED**



# PFED (Pocket-sized Forward Entry Device)

**Description:** PFED is a hardware/software used by dismounted forward observers to transmit and receive fire support as well as Close Air Support (CAS) messages over standard Combat Net Radios (CNR). It provides a digitized connection between Joint Fires Observer (JFO)/Forward Observers (FO) the army C2 system AFATDS and Joint and Coalition forces CAS systems to provide a vital sensor-to-shooter link. PFED with Precision Fires Imagery provides the dismounted Forward Observer the capability to refine coordinates of the target for the employment of precision munitions. PFED provides a means to deliver critical situational awareness for forward deployed dismounted fire supporters. The hardware/software solution is interoperable with AFATDS and Current Force Fire Support Systems. (LLDR/TRIGR).



PM MC- PdD FSC2  
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 TCM Fires Cells – Software manager: Elliott Newton, [elliott.g.newton.civ@mail.mil](mailto:elliott.g.newton.civ@mail.mil)  
 (580) 442-6839



PFED V2



PFED V3



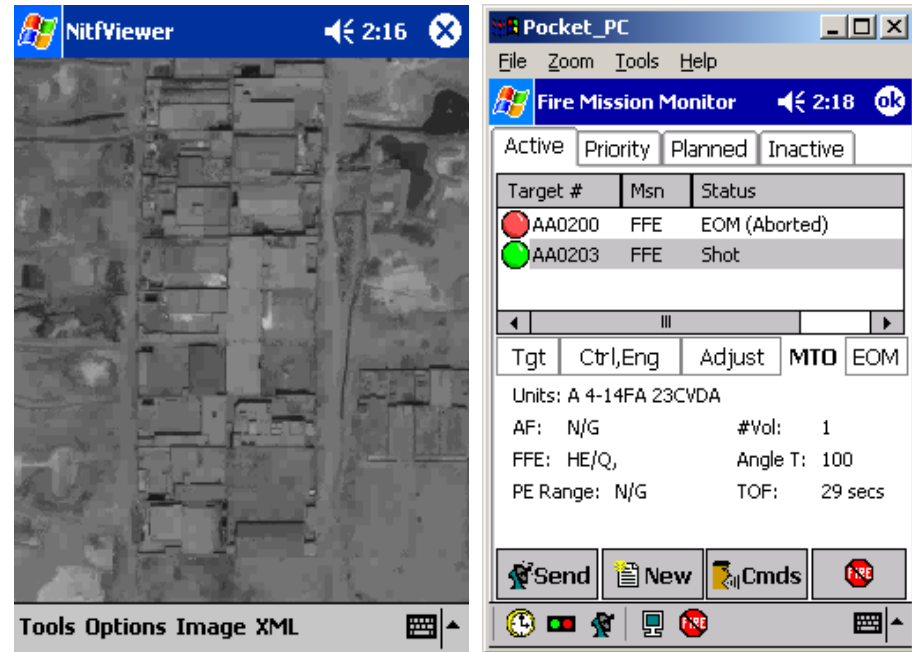
PFED V3 with external battery



# PFED with Precision Fires Imagery (PFI) Software

## PFED: Pocket Sized Forward Entry Device

- Generates “Call For Fire” Messages that are fully interoperable with both AFATDS
- Generate free text, SPOT, Resupply, SALUTE, NBC 1, MEDEVAC, Unit Status, Shelling and a 9-line attack brief messages.
- Wire interface to MKVII, LLDR, Vector, TRIGR
- Target Mensuration utilizing Precision Fires Imagery (PFI)



- 1 per Forward Observer (FO) Team
- HBCT, SBCT, IBCT



Fire support laser range finders that input directly to PFED



Mark VII



Target Reconnaissance Infrared Geolocating Range Finder - TRIGR

Replaces



Vector 21



# Digital Precision Imagery

## PROCEDURE TO ORDER IMAGERY DATA FOR PSS-SOF USING CATALOG

Note: Order imagery data from the Richmond Map Facility (<http://www.dscr.dla.mil/rmf/>). The Richmond Map Facility only accepts DPPD orders via MILSTRIP requisitions and is available only on DVD. For a complete list of DPPD Stock numbers, reference the Classified Catalog: NRN: CATCDCLASSIFIED and NSN: 7644-01-478-4791. You must set up an account with the Richmond Map Facility. Click on Accounts at the top of the webpage to find out more information about setting up an account. Once the classified catalog is received you must install it on a PC that is authorized to process classified material.

Caution: When ordering imagery data you will be referencing DPPDB numbers and NSNs. While these numbers are not classified by themselves, when they are associated with an area that is out side the United States it then becomes classified data and you therefore must safeguard that information. It is a safe practice to treat all DPPDB numbers with associated location information as classified data.

- 1) Determine the UTM coordinates and radius in km of the applicable imagery area.
- 2) Open the classified DLA Map Catalog on your secure PC.
- 3) Click on the Find a Map button on toolbar at top of the screen.
- 4) Click on the Exact Location tab.
- 5) Select UTM – Center Coord in the Search Method box.
- 6) Enter easting, northing, UTM zone, N or S, and radius in km. Under Available Products select the Digital Folder and then select DPPDB. Click on the > button to add it to the search. Click on the Search button.
- 7) A table is displayed with DPPDB and DPPDD numbers with a map behind it. Click on the NRN column to sort the numbers. You are searching for the applicable DPPDD number. Click on the first DPPDD number in the NRN column and verify the coverage area by looking at the red shaded area of the map. Repeat for each DPPDD number to verify coverage area.
- 8) Once you have determined the coverage area, ensure that only the DPPDD numbers in the NRN column that you want to order are selected in the table. Click on Add to Cart and follow the instructions. Note: If you decide to order at a later time you will need both the NRN and NSN numbers which are located in the table when you place your order.

### Lesson 4 Attachment C

#### Copy DPPDB Segments from a DVD onto a FOS Device

1. Turn on FOS and log in.
2. If copying imagery onto an RHC, connect the DVD cable to the Fast I/O port on the RHC. Connect the other end to the DVD. Connect the power cable on the DVD and plug it into an AC power adapter or AC power outlet. Insert the DVD into the DVD reader.
3. If copying imagery onto an SCU, insert the DVD into the DVD reader.
4. At the Start screen, select Programs/DPPDB Manager. The DPPDB Product Manager screen appears.
5. On the DPPDB Product Manager screen, select the CD/DVD ROM tab.
6. Select the Mount button, the DPPDB name and details appear. Click on the item to select it.
7. From the File menu, select Rebuild Master List, then File/Quit.
8. Select the Chart Tool from the Start bar.
9. Select File/Open. Then select D:\mastprod.nif to load the map.
10. Click on the Image Segments Overlay button (3 blue boxes) on the toolbar so you can see how the map is segmented. Blue lines appear on the map showing how the map is segmented. You can have overlapping segments.
11. Locate the point or area of interest on the map. Click on it.
12. Note the segment number(s) located on the bottom right hand portion of the window. Also note the longitude and latitude of the point you clicked on.

Note: The segment numbers are not exact on Chart Tool; rather it is an approximate number. If your point/area of interest is nearby another segment, you may need to copy that segment as well. To note the nearby segment click into that segment area and get the number.

Note: In the event that your point resides in multiple segments, note all the segments associated with that point.

# Fire Support Sensor System (FS3)



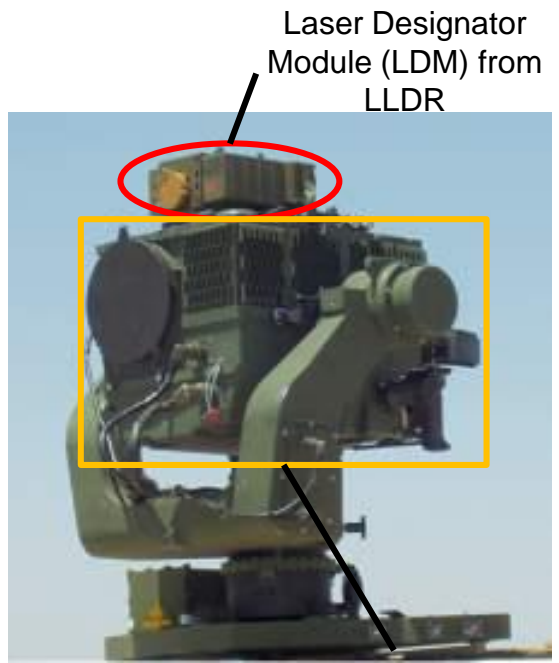
## Capabilities

- ❑ Targeting ranges
  - Detect: 20km day  
10km night
  - Recognize: 12km day  
7km night
  - Identify: 7km day  
3km night
- ❑ Designation: 5km Stationary  
3km Moving
- ❑ TLE: 10m at 10K
- ❑ Digital Connectivity
- ❑ Self-locates, determine range, azimuth and vertical angle to target

- 3 per IBCT (Recon FIST)
- 13 SBCT FIST (FSV)
- 13 ABCT FIST (M3A3 BFIST)

## Characteristics

- ❑ Eye safe laser rangefinder
- ❑ Same MEP for BFIST M7 / M3A3, M1200 Armored Knight and Stryker FSV
- ❑ Common Sensor with Scouts provides same Mobility, Survivability and Signature as maneuver units
- ❑ Integrates LDM from LLDR to provide designation capabilities
- ❑ Netted Sensor capability for passing a target from one FS3 to another.



Laser Designator Module (LDM) from LLDR

Long-Range Advance Scout Surveillance System (LRAS3)

Installed in each BFIST/FSV instead of TOW, does not dismount

Product Manager Terrestrial Sensors  
 2GF/LRAS3/DVE Team Lead: Scott Winter  
[scott.h.winter2\\_ctr@mail.mil](mailto:scott.h.winter2_ctr@mail.mil) (703) 704-3006  
 TCM Fires Cells - Mounted/Dismounted Sensors: Jimmy Arter  
[jimmy.w.arter.civ@mail.mil](mailto:jimmy.w.arter.civ@mail.mil) (580) 442-8779

# M3A3 W/FS3 BFIST



## Capabilities

- ❑ Targeting ranges
  - Detect: 20km day  
10km night
  - Recognize: 12km day  
7 km Night
  - Identify: 7km day  
3km night
  
- ❑ Designation: 5km stationary  
3km moving
  
- ❑ TLE: **10m at 10K**

## Characteristics

- ❑ Based on Bradley A3 Chassis
- ❑ Two 2nd Gen FLIRs
- ❑ Fully Digitized
- ❑ Commander's Independent Viewer (CIV)
- ❑ **Fire Support Sensors (FS3, LRAS and LDM)**
- ❑ **Integrated FOS/FBCB2/JCR**
- ❑ Weight 62,500, 73,000 Combat loaded
- ❑ Allows targeting under armor

Product Manager Bradley Fighting Vehicle Systems (PdM BFVS)

BFIST Lead Engineer: Mark Liedke [mark.j.liedke.civ@mail.mil](mailto:mark.j.liedke.civ@mail.mil) (586) 282-6321  
TCM Fires Cells - BFIST SME: Mark Garrison [mark.a.garrison8.ctr@mail.mil](mailto:mark.a.garrison8.ctr@mail.mil) (580) 442-8786

• **1 per maneuver Co in an ABCT**

# Stryker Fire Support Vehicle (FSV)

## Capabilities

- Targeting ranges determined the FS3
- Digital Connectivity
- FS3 Targeting ranges
  - Detect 20K Day / 10K Night
  - Recognize 12K Day / 7K Night
  - Identify 7K Day / 3K Night
- Designation
  - 5km stationary/ 3km Moving
- TLE: 10m at 5K



## Characteristics

- Mounted Laser Designation
- 2nd Generation FLIR
- GPS denied environment
- Inertial Navigation System (INS)
- Beyond Line of Sight HF vehicular radio
- 360 Degree targeting
- 300 mile fuel range
- Silent Watch Mission Equipment Package
- Common Mission Equipment package with BFIST
- JCR
- Mobility, survivability and signature equal to maneuver units

PM SBCT - Dave Benson – Systems Engineer - david.k.benson.civ - (586) 282-8747  
 - Omomene Nebor - Integrated Log Support Mgr - omomene.d.nebor.civ - (586) 282-7669  
 TCM Fires Cells: Jimmy Arter [jimmy.w.arter.civ@mail.mil](mailto:jimmy.w.arter.civ@mail.mil) (580) 442-2835  
 NOTE: The Stryker FSV actually falls under TCM SBCT (Ft. Benning) They are responsible for all Stryker variants. We provide support to them. You can still contact us and we will get you to the right person.

**Issue: Inability to target under armor or on move**

**• 1 per maneuver Co in an SBCT**

# Lightweight Laser Designator Rangefinder (LLDR)

## Capabilities

- Targeting ranges
  - Detect 10K day/3K night
  - Recognize 7K day/2K night
  - Identify 5K day/1.7K night
- Range Finding - 10 Km
- Target Designation
  - 5 Km Stationary
  - 3 Km Moving
- Self location- 10 m CEP
- Target Location - 80 m TLE @ 10 Km , 20 m TLE @ 2.5 km.



## Characteristics

- Day and night observation, target location and designation
- Weight, 35 lbs.
- Has an eye safe range finding mode
- Designates for all Precision Guided Munitions
- Gen II FLIR
- Internal GPS Receiver
- Improved Forward Observer System (FOS) interface

PM Soldier Precision Targeting Devices: Pete Minter [charles.w.minter.ctr@mail.mil](mailto:charles.w.minter.ctr@mail.mil)  
 Office #: 703-704-4896 / Cell #: 703-576-7580  
 TCM Fires Cells – Dismounted Sensors: Josh Dexter [joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil)  
 (580) 558-0558

• **1 per maneuver Co FIST**



# Lightweight Laser Designator Rangefinder LLDR 2H

## Capabilities

- Target Location Error (TLE) (10 m @ >2.5km)
- Targeting ranges
  - Detect 10K day/3K night
  - Recognize 7K day/2K night
  - Identify 5K day/1.7K night
- Range Finding - 10 Km
- Target Designation
  - 5 Km Stationary Target
  - 3 Km Moving Target



## Characteristics

- Day and night observation, target location and designation
- Precision Target Location - Celestial/MEMS/Compass**
- Improved Digital Day Camera**
- Eye-safe Laser Rangefinder
- Digital Thermal Camera
- Tactical See Spot
- SAASM GPS Receiver
- Weight, 31.9 lbs.**
- Uses common ACIP Battery

PM Soldier Precision Targeting Devices: Pete Minter [charles.w.minter.ctr@mail.mil](mailto:charles.w.minter.ctr@mail.mil)  
Office #: 703-704-4896 / Cell #: 703-576-7580  
TCM Fires Cells – Dismounted Sensors: Josh Dexter [joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil)  
(580) 558-0558

• **Replaces LLDR -1 per maneuver Co FIST**



# VECTOR 21



## Capabilities

- Handheld weight- <4 lbs
- Accuracy: 50m TLE at 5km (9 mil error)
- Identification Range: 2.5 km day and 350m night (Recognition 3.3 km and 450m)
- Digital Connectivity w/ PFED)



## Characteristics

- Digital Magnetic Compass (DMC)
- Direct view day optics and connectivity to PVS-14 for night use
- Total system weight <14 lbs
- Eye safe laser rangefinder
- Laser Target Location System (LTLS) program was a Rapid Fielding Initiative program

PM Soldier Precision Targeting Devices  
POC: Bo Thompson Email: [william.b.Thompson.ctr@mail.mil](mailto:william.b.Thompson.ctr@mail.mil)  
Office #: 703-704-4028 Cell #: 703-258-9342  
TCM Fires Cells – Dismounted Sensors: Josh Dexter  
[joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil) (580) 558-0558

**LTLS systems are approved for FO's at the Company level**

# MK-VII



## Capabilities

- Handheld weight- <5.5 lbs
- Accuracy: 50m TLE at 5km (9 mil error)
- Identification Range: 2.5 km day and 350m night (Recognition 3.3 km and 450m)
- Digital Connectivity w/ PFED)



## Characteristics

- Digital Magnetic Compass (DMC)
- Direct view day optics and eye squared for night vision
- Total system weight <14 lbs
- Eye safe laser rangefinder
- Laser Target Location System (LTLS) program was a Rapid Fielding Initiative program

PM Soldier Precision Targeting Devices  
POC: Bo Thompson Email: [william.b.Thompson.ctr@mail.mil](mailto:william.b.Thompson.ctr@mail.mil)  
Office #: 703-704-4028 Cell #: 703-258-9342  
TCM Fires Cells – Dismounted Sensors: Josh Dexter  
[joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil) (580) 558-0558

**LTLS systems are approved for FO's at the Company level**



# MK-VIIE

## Capabilities

- Handheld weight- <5.5 lbs
- Accuracy: 50m TLE at 5km (9 mil error)
- Identification Range: 2.5 km day and 450m night (Recognition 3.3 km and 600m)
- Digital Connectivity w/ FOS and PFED)
- Internal SAASM GPS



## Characteristics

- Digital Magnetic Compass (DMC)
- Direct view day optics and Thermal night vision
- Total system weight <14 lbs
- Common batteries (AAA or 123)
- Eye safe laser rangefinder
- Laser Target Location Module (LTLM) Program of Record

PM Soldier Precision Targeting Devices  
POC: Bo Thompson Email: [william.b.Thompson.ctr@mail.mil](mailto:william.b.Thompson.ctr@mail.mil)  
Office #: 703-704-4028 Cell #: 703-258-9342  
TCM Fires Cells – Dismounted Sensors: Josh Dexter  
[joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil) (580) 558-0558



## Capabilities

- Handheld weight- <5.5 lbs
- Accuracy: 50m TLE at 5km (9 mil error)
- Identification Range: 2.5 km day and 450m night (Recognition 3.3 km and 600m)
- Digital Connectivity w/ FOS and PFED)
- Internal SAASM GPS



## Characteristics

- Digital Magnetic Compass (DMC)
- Direct view day optics and Thermal night vision
- Total system weight <14 lbs
- Common batteries (AAA or 123)
- Eye safe laser rangefinder
- Laser Target Location Module (LTLM) Program of Record

PM Soldier Precision Targeting Devices  
POC: Bo Thompson Email: [william.b.Thompson.ctr@mail.mil](mailto:william.b.Thompson.ctr@mail.mil)  
Office #: 703-704-4028 Cell #: 703-258-9342  
TCM Fires Cells – Dismounted Sensors: Josh Dexter  
[joshua.a.dexter.ctr@mail.mil](mailto:joshua.a.dexter.ctr@mail.mil) (580) 558-0558



# Mission Essential Optic Fire Support Components



## Vector 21

1x per maneuver FO Team

Component	NSN	PRICE/EA
● CABLE ASSEM, SPECIAL ELE	6150-01-565-7440	\$ 563.02
● BATTERY, NONRECHARGEABLE	6130-01-466-0192	\$ 68.56



## PED-3 Mark VII

1x per maneuver FO Team

Component	NSN	PRICE/EA
● ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (PLGR/DAGR)	6150-01-549-1273	\$ 902.58
● BATTERY, NONRECHARGEABLE	6135-01-466-0192	\$ 68.56
● ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (EXTERNAL POWER)	6150-01-548-9574	\$ 758.70



## PED-4 Mark VIII

1x per maneuver FO Team

Component	NSN	PRICE/EA
● CABLE ASSEMBLY, ELECTRICAL, (EXTERNAL POWER)	6150-01-601-8106	\$ 655.00
● CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (SYSTEM)	6150-01-601-8110	\$ 1,650.00
● CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (CRYPTO)	6150-01-601-8102	\$ 914.00
● CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (HTU/PFED)	6150-01-601-8098	\$ 268.00



## PED-5 TRIGR

1x per maneuver FO Team

Component	NSN	PRICE/EA
● BATTERY NON-RECHARGE	6135-01-333-6101	\$ 21.53
● CABLE ASSEMB, POWER	6150-01-593-3834	\$ 587.00
● INTERFACE UNIT, DATA TR	7025-01-593-5936	\$ 1,039.00
● CASE, BATTERY ASSEMB	6160-01-593-3836	\$ 194.00



## LLDR

1x per maneuver co

Component	NSN (Red IS Compatible with LLDR 2H)	PRICE/EA
● CABLE ASSEMBLY SPECIAL (Personality)	5995-01-516-5718	\$ 1,314.35
● ADAPTER ASSEMBLY, Veh. Power	4920-01-516-5707	\$ 4,649.15
● CABLE ASSEMBLY POWER	6150-01-516-5791	\$ 2,771.39
● BATTERY BOX	6160-01-516-5686	\$ 3,041.49
● CABLE ASSEMB, SPECIAL PU	5995-01-516-5771	\$ 87.39
● CABLE ASSEM, SPECIAL (training adapter)	5995-01-516-5722	\$ 1,219.08
● ADAPTER ASSEMB, Battery Box	4920-01-516-6078	\$ 1,453.64



## LLDR 2H

1x per maneuver co

Component	NSN	PRICE/EA
● CABLE ASSEMBLY SPECIAL (Personality)	5995-01-516-5718	\$ 1,314.35
● ADAPTER ASSEMBLY, Veh. Power	4920-01-516-5707	\$ 4,649.15
● CABLE ASSEMBLY POWER	6150-01-516-5791	\$ 2,771.39
● BATTERY BOX (Different from LLDR)	6160-01-611-5750	\$ 3,934.39
● CABLE ASSEMB, SPECIAL PU	PN 20022490-1	\$
● CABLE ASSEM, SPECIAL (training adapter)	5995-01-516-5722	\$ 1,219.08
● ADAPTER ASSEMB, Battery box	4920-01-516-6078	\$ 1,453.64

● Communication component  
○ Power component



# Mission Essential Fire Support Computer Components



## RHC-2 LFED

1x per maneuver Co FIST Team

Component	NSN	PRICE/EA
UNIT, DISK DRIVE (DVD-ROM)	7025-01-594-5804	\$ 79.95
Disk Drive Unit (Hard Drive)	7025-01-616-7753	\$ 959.00
CABLE, SINGGARS RADIO	5995-01-514-1003	\$ 532.19
CABLE, (30') DC POWER (p/o power stick)	6150-01-619-5168	\$ 351.25
CCA, TACLINK	5998-01-571-6123	\$ 2,100.00
INTERFACE UNIT, (DOME),	7025-01-552-9106	\$ 7,264.00
CONVERTER, AC/DC	6130-01-570-7164	\$ 375.00
ADAPTER, DC, POWER STICK	6130-01-570-7242	\$ 1,600.00
CHARGER, BATTERY, DUAL,	6130-01-570-7230	\$ 2,917.30
Cable, G/VLLD (and LLDR)	5995-01-519-7865	\$ 78.60
BATTERY, RECHARGABLE	6140-01-570-7191	\$ 697.50



## AN/PSG14V1

1x per maneuver FO Team  
(V1 – Dismounted V2 – Vehicle mounted)

Component	NSN	PRICE/EA
POWER SUPPLY (AC/DC, Adapter/Charger),	6130-01-622-3126	\$ 2,364.00
DISK DRIVE UNIT (External), DVD- ROM	7025-01-621-2622	\$ 231.00
DISK DRIVE UNIT (80G), (Hard Drive)	7025-01-621-7204	\$ 505.00
CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL (6ft. Dual SINGGARS Cable)	5995-01-625-5271	\$ 1,546.00
CABLE, SPECIAL PURPOSE, ELECTRICAL (6ft. Serial Cable), LLDR	6145-01-625-7311	\$ 778.00
CABLE ASSEMBLY, POWER, ELECTRICAL (25ft. DC Power Cable)	6150-01-625-7253	\$ 917.00
BATTERY, MAH (Rechargeable, Lithium-Ion),	6625-01-598-5739	\$ 202.25
ACCESSORY KIT, ELECTRONIC EQUIPMENT (Dome Interface Assembly) (Version 2 only)	5999-01-629-5014	\$ 10,425.00
CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL (1ft. DC Power Cable) (VERSION 2 Only)	5995-01-641-3504	\$ 456.30



## AFATDS

1x per maneuver BN, 2x BDE FSE, 8x FA BN

Component	NSN	PRICE/EA
DISK DRIVE UNIT (Hard Drive)	7025-01-597-1287	\$ 484.00
POWER SUPPLY	6130-01-581-4026	\$ 574.20
CIRCUIT CARD ASSY (TACLINK CARD)	5998-01-571-6123	\$ 2,100.00
CABLE ASSEM. SPECIAL (Dual SINGAR Radio Cable)	5995-01-463-0973	\$ 1,348.10
CABLE ASSY, SP ELECTRICAL (Radio 15' Extension Cable)	5995-01-476-7816	\$ 392.89
Cable, PRC-150 Radio	6105-01-542-7483	\$ 204.19



## SCU (Stand Along Computer Unit)

1x per maneuver Co

Component	NSN	PRICE/EA
SCU Y Adapter Cable SINGGARS	5995-01-513-4629	\$ 1,042.80
30GB Rotating RHDD	7025-01-504-6084	\$ 362.00
Air Gap Cable (BFIST ONLY)	5995-01-519-5618	\$ 237.00
G/VLLD Cable (STRYKER/KNIGHT ONLY)	5995-01-519-7865	\$ 78.60
Dual Serial Cable Male Jackscrew (Stryker only)	5995-01-513-5311	\$ 527.00



## PFED V3

1x per maneuver Co FO Team

Component	NSN	PRICE/EA
POWER SUPPLY ADAPTER	6130-01-515-0675	\$ 101.00
CABLE, SINGGARS RADIO	5995-01-513-5199	\$ 326.17
10 Cell Battery Holder (goes in Battery retainer)	6160-01-521-4563	\$ 359.77
Battery Retainer (external battery pack)	6160-01-514-2658	\$ 544.45
CABLE, UNIVERSAL LRF	5995-01-601-1580	\$ 810.26

● Communication component  
● Power component



# Mission Essential Fire Support Platform Components



## M3A3 BFIST

1x per maneuver co

Component	NSN	PRICE/EA
Boresight tool	4920-01-490-5100	\$2,875.00
Will need to order 5 for Critter teams to sign out to unit		



## Stryker Fire Support Vehicle (FSV)

1x per maneuver co

Component	NSN	PRICE/EA
Boresight tool	4920-01-490-5100	\$2,875.00
Will need to order 5 for Critter teams to sign out to unit		



## FS3 System

1x per maneuver co

Component	NSN	PRICE/EA
No identified components needing to be stocked – rarely are non-end item components broken, and no components in TM's are essential to the fire support digital routing.		

- Communication component
- Power component



# Fire Support Equipment Status Tracker (A WAY...)



FSC/FIST	Vehicles	AFATDS	JCR	Radios	SCU	LLDR	FS3	Vector/TRIGR	PFED	Maintenance Status
4-10 CAV	█	█	█	█	█	█	█	█	█	Medic Track instead of their M1068. FSC M1068 stayed at Carson
A/4-10	█	█	█	█	█	█	█	█	█	
B/4-10	█	█	█	█	█	█	█	█	█	
C/4-10	█	█	█	█	█	█	█	█	█	
D/4-10	█	█	█	█	█	█	█	█	█	
1-8 IN	█	█	█	█	█	█	█	█	█	BN FECC M1068 is NMC due to engine failure, new engine installed in RUBA
A/1-8	█	█	█	█	█	█	█	█	█	A CO SCU Hard Drive NMC
B/1-8	█	█	█	█	█	█	█	█	█	B CO SCU Hard Drive NMC
C/1-8	█	█	█	█	█	█	█	█	█	
1-66 AR	█	█	█	█	█	█	█	█	█	
A/1-66	█	█	█	█	█	█	█	█	█	PFED are INOP
B/1-66	█	█	█	█	█	█	█	█	█	BFIST down due to malfunctioning turret. BFT and PFED are INOP
C/1-66	█	█	█	█	█	█	█	█	█	PFED INOP
1-68 AR	█	█	█	█	█	█	█	█	█	Currently 3/4 on 120 mortar tubes (HQ 34) Bi-Pod will not elevate & MFCS software issue, but can compute data
A/1-68	█	█	█	█	█	█	█	█	█	FS3 is unable to lase; SCU has intermittent comms issues
B/1-68	█	█	█	█	█	█	█	█	█	SCU has intermittent comms issues
C/1-68	█	█	█	█	█	█	█	█	█	SCU has intermittent comms issues
BDE FSC	█	█	█	█	█	█	█	█	█	Main has access to BFT through S3
BDE TAC	█	█	█	█	█	█	█	█	█	TAC has access to BFT through S3

FMC
  Degraded, not talking digitally
  NMC
  No Equipment on hand

FIRE SUPPORT EQUIPMENT SMARTBOOK

End Item LIN	Component/Nomenclature	NSN	PART #	PRICE/EA	DESCRIPTION	QTY	Totals	
M3A3 BFIST	Boresight Kit	4920-01-490-5100		\$2,875.00	Will order for Critter teams		\$ -	
\$								
LASER PED-1	CABLE ASSEMBLY SPECIAL	5995-01-516-5718		\$ 1,314.35	(Personality)	6	\$ 7,886.10	
LLDR	ADAPTER ASSEMBLY, Vehicle Power	4920-01-516-5707		\$ 4,649.15		4	\$ 18,596.60	
	CABLE ASSEMBLY POWER	6150-01-516-5791		\$ 2,771.39		4	\$ 11,085.56	
	BATTERY BOX	6160-01-516-5686		\$ 3,041.49		4	\$ 12,165.96	
	CABLE ASSEMB, SPECIAL PU	5995-01-516-5771		\$ 87.39		4	\$ 349.56	
	CABLE ASSEM, SPECIAL	5995-01-516-5722		\$ 1,219.08	(training adapter)	2	\$ 2,438.16	
	ADAPTER ASSEMB, Battery Box	4920-01-516-6078		\$ 1,453.64		6	\$ 8,721.84	
\$ 61,243.78								
LASER PED-1	CABLE ASSEMBLY SPECIAL	5995-01-516-5718		\$ 1,314.35	(Personality)	0	\$ -	
LLDR 2H	ADAPTER ASSEMBLY, Veh. Power	4920-01-516-5707		\$ 4,649.15	Veh. Power		\$ -	
	CABLE ASSEMBLY POWER	6150-01-516-5791		\$ 2,771.39			\$ -	
	BATTERY BOX	6160-01-611-5750		\$ 3,934.39	(Different from LLDR)	4	\$ 15,737.56	
	CABLE ASSEMB, SPECIAL PU		PN 20022490-1	\$			more info needed	
	CABLE ASSEM, SPECIAL	5995-01-516-5722		\$ 1,219.08	(training adapter)		\$ -	
	ADAPTER ASSEMB, Battery box	4920-01-516-6078		\$ 1,453.64			\$ -	
\$ 15,737.56								
Vector 21	CABLE ASSEM, SPECIAL ELE	6150-01-565-7440		\$ 563.02		4	\$ 2,252.08	
	BATTERY, NONRECHARGEABLE	6130-01-466-0192		\$ 68.56	lithium 3.9V D Cell UI:	30	\$ 2,056.80	
\$ 4,308.88								
AN/PED 5 TRIGR	BATTERY NON-RECHARGE	6135-01-333-6101		\$ 21.53		30	\$ 645.90	
	CABLE ASSEMB, POWER	6150-01-593-3834		\$ 587.00		4	\$ 2,348.00	
	INTERFACE UNIT, DATA TR	7025-01-593-5936		\$ 1,039.00		4	\$ 4,156.00	
	CASE, BATTERY ASSEMB	6160-01-593-3836		\$ 194.00		4	\$ 776.00	
\$ 7,925.90								
PED-3 MARK VII	ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (PLGR/DAGR)	6150-01-549-1273		\$902.58		4	\$ 3,610.32	
	BATTERY, NONRECHARGEABLE	6135-01-466-0192		\$68.56		30	\$ 2,056.80	
	ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (EXTERNAL POWER)	6150-01-548-9574		\$758.70		2	\$ 1,517.40	
\$ 7,184.52								
PED-4 MARK VIII	TRIPOD, MOUNTING	1240-01-570-9248		\$ 861.69		0	\$ -	
	POWER)	6150-01-601-8106		\$ 655.00		2	\$ 1,310.00	
	ELECTRICAL, (SYSTEM)	6150-01-601-8110		\$ 1,650.00		2	\$ 3,300.00	
	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (CRYPTO)	6150-01-601-8102		\$ 914.00		2	\$ 1,828.00	
	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, (HTU/PFED)	6150-01-601-8098		\$ 268.00		2	\$ 536.00	
\$ 6,974.00								
AN/PSG-10(V)3 PFED V3	POWER SUPPLY ADAPTER	6130-01-515-0675		\$ 101.00		4	\$ 404.00	
Also used for PFED V2	CABLE, SINGGARS RADIO	5995-01-513-5199		\$ 326.17		4	\$ 1,304.68	
	10 Cell Battery Holder (goes in Battery retainer)	6160-01-521-4563		\$ 359.77		6	\$ 2,158.62	
	Battery Retainer (external battery pack)	6160-01-514-2658		\$ 544.45		6	\$ 3,266.70	
	CABLE, UNIVERSAL LRF	5995-01-601-1580		\$ 810.26		4	\$ 3,241.04	
\$ 10,375.04								
RHC-2 (LFED)	UNIT, DISK DRIVE (DVD-ROM)	7025-01-594-5804	GP08NU6b(QWBG2)	\$ 79.95		2	\$ 159.90	
	Disk Drive Unit (Hard Drive)	7025-01-616-7753	02-2801747-1(67032)	\$ 959.00		4	\$ 3,836.00	
	CABLE, SINGGARS RADIO	5995-01-514-1003	09-2777287-20(67032)	\$ 532.19		4	\$ 2,128.76	
	CABLE, (30') DC POWER (p/o power stick)	6150-01-619-5168	A3297823-002(67032)	\$ 351.25		4	\$ 1,405.00	
	CCA,TACLINK	5998-01-571-6123	726789-803 (37695)	\$ 2,100.00		4	\$ 8,400.00	
	INTERFACE UNIT, (DOME),	7025-01-552-9106	02-2801325-2(67032)	\$ 7,264.00	Used to install in vic	1	\$ 7,264.00	
	CONVERTER, AC/DC	6130-01-570-7164	28-2800452-4(67032)	\$ 375.00		4	\$ 1,500.00	
	ADAPTER, DC, POWER STICK	6130-01-570-7242	28-2800452-3(67032)	\$ 1,600.00		4	\$ 6,400.00	
	CHARGER, BATTERY, DUAL,	6130-01-570-7230	28-2800454-2	\$ 2,917.30		2	\$ 5,834.60	
	Cable, G/VLLD (and LLDR)	5995-01-519-7865	A3257853-001(67032)	\$ 78.60		4	\$ 314.40	
	BATTERY, RECHARGEABLE	6140-01-570-7191	58-2800455-1(67032)	\$ 697.50		6	\$ 4,185.00	
	\$ 41,427.66							
AN/PSG14A1 V2 (LFED)	POWER SUPPLY (AC/DC, Adapter/Charger),	6130-01-622-3126	716912(54418)	\$ 2,364.00		2	\$ 4,728.00	
VERSION 1 And VERSION 2, Vehicle Mounted	DISK DRIVE UNIT (External), DVD- ROM	7025-01-621-2622	M401-62(54418)	\$ 231.00		1	\$ 231.00	
	DISK DRIVE UNIT (80G), (Hard Drive)	7025-01-621-7204	502896-1(54418)	\$ 505.00	Newly fielded system, should only need replacements for broken parts, not missing parts.	2	\$ 1,010.00	
	ELECTRICAL (6ft. Dual SINGGARS Cable)	5995-01-625-5271	09-2855453-1(67032)	\$ 1,546.00		2	\$ 3,092.00	
	CABLE, SPECIAL PURPOSE, ELECTRICAL (6ft. Serial Cable), LLDR	6145-01-625-7311	09-2855467-1(67032)	\$ 778.00		2	\$ 1,556.00	
	CABLE ASSEMBLY, POWER, ELECTRICAL (25ft. DC Power Cable)	6150-01-625-7253	09-2834292-1(67032)	\$ 917.00		2	\$ 1,834.00	
	BATTERY, MAH (Rechargeable, Lithium-Ion),	6625-01-598-5739	M207-23(54418)	\$ 202.25		6	\$ 1,213.50	
	(Dome Interface Assembly) (Version 2 only)	5999-01-629-5014	02-2855721-1(67032)	\$ 10,425.00		1	\$ 10,425.00	
	ELECTRICAL (1ft. DC Power Cable) (VERSION 2	5995-01-641-3504	717669(54418)	\$ 456.30		For Vehicle install	1	\$ 456.30
\$ 24,545.80								
AN/GYK-51 - SCU	SCU Y Adapter Cable SINGGARS	5995-01-513-4629		\$ 1,042.80		4	\$ 4,171.20	
Stand Alone Computer Unit	30GB Rotating RHDD	7025-01-504-6084		\$ 362.00		4	\$ 1,448.00	
	Air Gap Cable (BFIST ONLY)	5995-01-519-5618		\$ 237.00		4	\$ 948.00	
	G/VLLD Cable (STRYKER/KNIGHT ONLY)	5995-01-519-7865		\$ 78.60		4	\$ 314.40	
	Dual Serial Cable Male Jackscrew (Stryker only)	5995-01-513-5311		\$ 527.00		4	\$ 2,108.00	
\$ 8,989.60								
AN/GKY-63 AFATDS	DISK DRIVE UNIT (Hard Drive)	7025-01-597-1287		\$ 484.00		6	\$ 2,904.00	

\*\*BOLD NSN'S ARE USED ON MULTIPLE PIECES OF EQUIPMENT\*\*

FIRE SUPPORT EQUIPMENT SMARTBOOK

End Item LIN	Component/Nomenclature	NSN	PART #	PRICE/EA	DESCRIPTION	QTY	Totals
	POWER SUPPLY	6130-01-581-4026		\$ 574.20		6	\$ 3,445.20
	CIRCUIT CARD ASSY (TACLINK CARD)	<b>5998-01-571-6123</b>		\$ 2,100.00		6	\$ 12,600.00
	Cable)	5995-01-463-0973		\$ 1,348.10		6	\$ 8,088.60
	Extention Cable)	5995-01-476-7816		\$ 392.89		4	\$ 1,571.56
	Cable, PRC-150 Radio	6105-01-542-7483		\$ 204.19		0	\$ -
	Cable, 10' DC Power NATO						\$ -
\$ 28,609.36							
<b>AN/PYG-1(V)1 CENTAUR</b>	Battery Holder	<b>6160-01-521-4563</b>		\$ 359.77		4	\$ 1,439.08
	Battery Adapter	<b>6160-01-514-2658</b>	28-2781578-1	\$ 544.45		4	\$ 2,177.80
	Power Supply Adapter	<b>6130-01-515-0675</b>	28-2787456-1	\$ 97.24		4	\$ 388.96
<b>Also for AN/PYG 2 GDU-R</b>	Radio Cable	5995-01-513-5199	A3297497-003	\$ 336.53		4	\$ 1,346.12
	SD Card	7025-01-595-3498	SDSDB-128-781, 1300579	\$ 34.90		6	\$ 209.40
	NATO Power Cable Assembly	5595-01-098-2613		\$ 473.00		4	\$ 1,892.00
\$ 7,453.36							
<b>M1131 Stryker FSV</b>	Boresight Kit	<b>4920-01-490-5100</b>		\$2,875.00		0	\$ -
\$ -							

FS3 Have the MWO for the install of cables, but can't identify one special cable from another. Waiting for shop drawings.

**Grand Total for 310 Fire Support \$ 224,775.46**