

ZEN TANK ZEROING SYSTEM (Zen TZS)



Zen TZS aids T-72 and T-90 Tank crew bore-sighting and main gun zeroing. The TZS saves man power and ammunition at the same time greatly improving 'First Round Hit Probability (FRHP) of the main gun. The system is adaptable to any tank.

The system requires only the gunner to set up and operate. Intricately customised optics, high-resolution visuals and powerful acoustic sensors ensure fail-safe and reliable bore-sighting and zeroing. It has three sub-systems which are wirelessly integrated for seamless functioning over ranges up to 1800 metres.

The system comprises Electronic Bore Sighting Unit (EBSU), Hit Detection and Analysis Unit (HDAU) and Gunner Display Unit (GDU). The system can be operated by a gunner to complete the zeroing in 20 minutes.

- EBSU captures image of bore-sight target
- Gunner's Display Unit shows the EBSU captured target
- HDAU helps ascertain the alignment and make the minimum correction, if required. It can also be used to conduct firing exercises for tanks



Electronic Bore Sighting Unit

Exercise
Diagnostics

Lane :

Gunner ID :

Range : mts

Practice Type :

SD-absha :

Tank Type :

Tank ID :

Target :

Ammo :

A	B	C	D	E	F
1					6
2					
3					
4					
5					

HIT AND MISS DETAILS					
Shot	X	Y	Timestamp	Correction Elevation	Correction Azimuth
9	-70.22	-2.73	00:00:00	-702.2727	-27.2727
8	-15.63	-65.14	00:00:00	-156.8182	-661.3636
7	53.18	-29.32	00:00:00	531.8182	-293.1818
6	-1.36	12.95	00:00:00	-13.63636	129.5455
5	-8.18	-25.23	00:00:00	-81.81818	-252.2727
4	57.27	21.13	00:00:00	572.7273	211.3637
3	-17.72	14.99	00:00:00	-177.2727	150
2	13.63	38.18	00:00:01	136.3636	381.8183
1	-13.63	70.9	00:00:01	-136.3636	709.0907

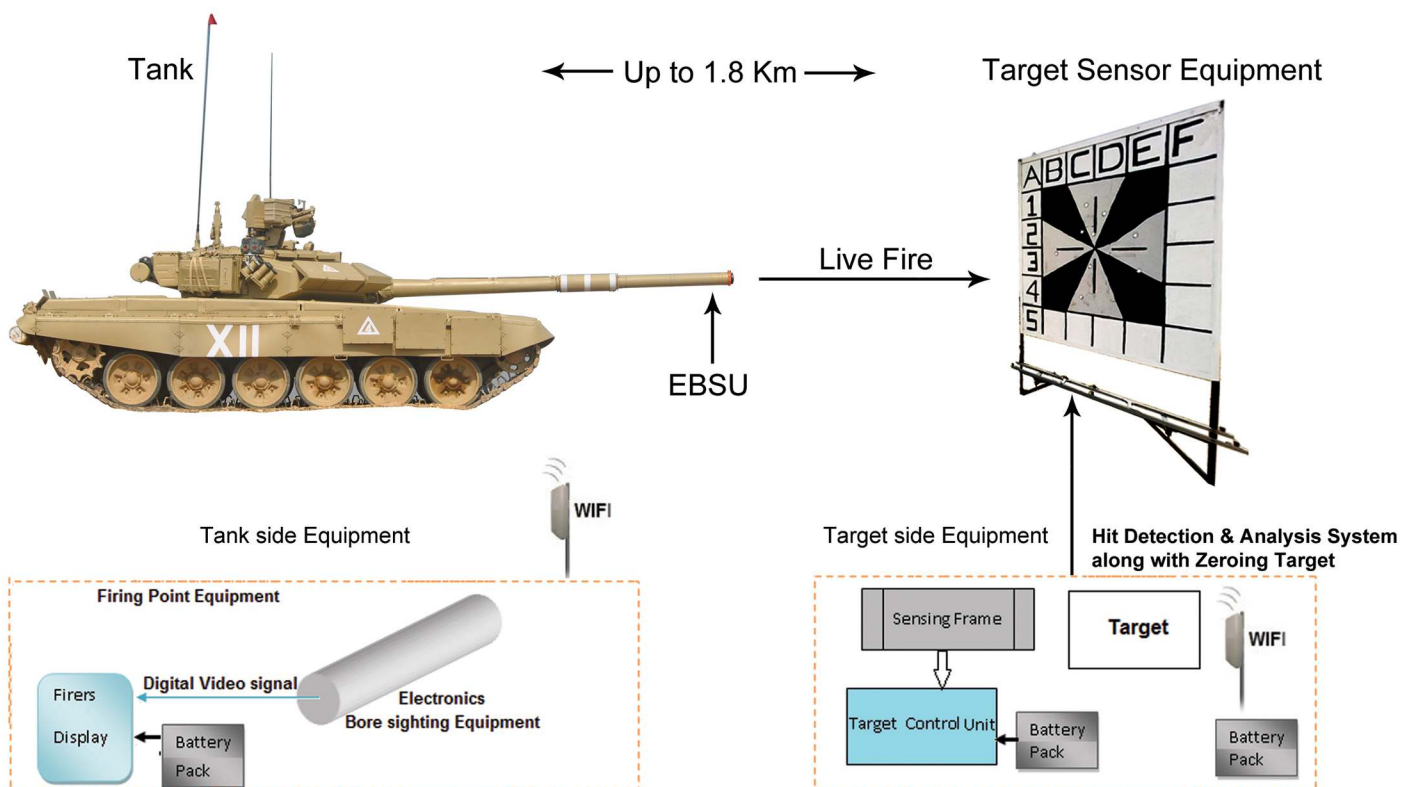
Group Size (cms.) : 55.08332
 MPI (Cms) : -0.3030307, 3.863621

TGT
MCS
Mode
Firer
Frame : 1

F1 : Stop
F2 : Zoom
F3 : Replay
F4 : Diagnostics
F5 : Exit

Features :

- Offers twin benefits of zeroing and target practice
- Enables fast zeroing and reliable
- Saves man hours and ammunition
- Works in all-weather conditions
- Includes features to conduct different of types firing exercises
- Engages two ranges of RF for communication
- Displays target details with virtual image
- Offers zoom and pan options for target
- Has features to feed/select/display gunner and tank ID, type of ammunition, range, type of practices and connection status
- Training package to operate the system takes 60 minutes only



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