



# Type 163

## Enhanced Type 163 Laser Target Designator

The battle-proven Type 163 laser target designator (LTD) is designed for today's special and conventional force JTACs and JFOs missions.

Marks, guides and terminally controls Semi-Active-Seeker (SAL) guided weapons accurately onto the target at ranges up to 10km.

Updated for improved interoperability, with full remote operation.

Environmental & deployment factors can affect the quality of laser spots on target. The Type 163's combination of superior output energy, coupled with excellent beam divergence and pointing accuracy, mitigates these factors in deployment.

Combat unit feedback from Type 163 is: "JTACs can designate with a high degree of confidence, reducing communications and increasing first attack hit probability."

*"Employing the Type 163 reduces fratricide and collateral damage risks inherent in air to ground operations."*

Type 163 has been designed to guarantee the following to the operator:

- Ease of use
- Ruggedness and reliability
- Best in class output energy, divergence and pointing accuracy
- Compact and lightweight package via a novel athermal design
- Full performance over a broad operating temperature range
- No warm-up or cool-down period prior to firing



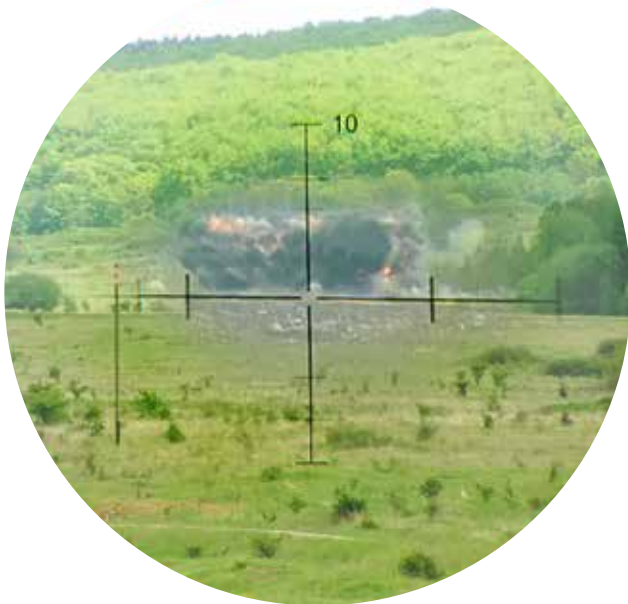
## Key Features

- Small lightweight with STANAG 3733 D1 output energy, tight beam divergence & high pointing accuracy
- Engagement ranges up to 10km
- Full set of STANAG 3733 PRF codes pre-loaded
- No significant warm-up time and no duty cycle required
- Easy to train, simple to operate
- Low maintenance and low lifecycle costs
- Long battery life
- Quiet operation for covert use
- Integrated Digital Magnet Compass (DMC)

## 2026 Upgrades and Additions

As part of the continuous upgrade programme for Type 163, the following fully backwards compatible upgrades have now been introduced:

- Full 2-way comms allowing remote setting of PRF codes plus laser Arm and Fire; mission data sent to Operator's UIDs and beyond
- Optical Shroud to reduce the effectiveness of enemy retroreflection detection systems → Type 163 – DRS MSS II – Glenair Starpan Power and Data Hub Interconnecting cable
- Enhanced cold weather field carry pouch allows full battery performance to be maintained in sub zero temperatures



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## Technical Specification

<b>Output Energy</b>	>70mJ (typically >90mJ)
<b>Beam Divergence</b>	<300µrad (typically <200µrad)
<b>Aimpoint Accuracy</b>	<250µrad (typically <60µrad)
<b>Pulse Width</b>	18±7ns
<b>Repetition Rate</b>	NATO STANAG 3733 (full set pre-loaded)
<b>Direct View Optic</b>	10x Magnification, 2° FoV, open cross reticle
<b>Laser Rangefinder</b>	100m to 9.999km ±)5m (first/last pulse logic)
<b>Digital Magnet Compass</b>	<1° (typically < 0.5°) accuracy
<b>Dimensions (L x D x H):</b>	322mm x 142mm x 87mm (12.7" x 5.6" x 3.4") including battery and eyecup
<b>Mass</b>	<2.55kgs including battery (5.62lbs)
<b>Comms</b>	(2-way) RS422
<b>Power Supply</b>	Rechargeable clip-on battery pack, duration >350, 10 second engagements with 10second intervals on one fully charged battery (20Hz code)
<b>Temperature</b>	
<b>Operating</b>	-30 to +50°C (-22 to +122°F)
<b>Storage</b>	-40 to +85°C (-40 to +185°F)
<b>MTBF</b>	12,000hrs

## Equipment

- Type 163 LTD
- Remote arm/ fire control switch
- Lithium-Ion battery x 2
- Power adaptor charger
- Field carry pouch

## Optional

- Tripod fine adjust, interface plate and carry pouch
- BA5590 battery adaptor
- Beam dump
- Optical shroud
- SAFRAN LTKD mounting bar and Type 163 interface plate
- Enhanced cold weather field carry pouch
- Type 163 – DRS MSS II – Glenair Starpan power and Data Hub interconnecting cable
- 2-way comms cable
- Instro Remote Operating System (ROS)



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