



### IllumiNITE®

Long Range Active Imaging Night Identification and Observation System



**IllumiNITE®** is a unique night vision system based on Active Synchronized Gated Imaging technology. Designed for long range observation and identification at nighttime, **IllumiNITE®** allows you to clearly distinguish objects and details even at distances of up to 13 km.

With **IllumiNITE®** you can identify targets at night in their natural contrast as in daytime, and also under adverse weather conditions. **IllumiNITE®** enables identification and even classification of a object that would only be indistinct shadows with systems based on other technologies .

Even in complete darkness, **IllumiNITE®** can resolve and present a clear image in the Near InfraRed (NFR) range. This enables imaging of objects and signs, ship names, and fishing lines. Human activity is easily recognizable and assessible.

**IllumiNITE®** is designed to answer the stringent demands of coastal and port surveillance applications, where the need for vessel name reading and identification during day and night and in any weather conditions are major requirements, impossible to achieve using thermal imaging technology.

**IllumiNITE®** represents a dramatic improvement in night observation and identification capability. It enables monitoring and surveillance crews to use daytime tactics at night, providing image quality as clear as under daylight.

**IllumiNITE®** is available in several configurations which support the requirements for different applications.

- ◆ Coastal Security
- ◆ Port Security
- ◆ Critical Infrastructure Security
- ◆ Border Security

## Characteristics

Technical Specifications	
Spectral range	850+/-50 nm
Camera FOV	0.340 ±10% , diagonal
Illuminated FOV	0.204 ±10% , $\lambda E$
Monitor Video output standard	per CCIR/RS170, monochrome, 75 ohm
Termination	
Control serial link	EIA-RS-422
Power supply	220 V / 110 V
Power consumption	500 Watts in night mode
Physical Characteristics	
Sensor Head Dimensions	W = 280 mm, D=420 mm, H=200 mm (approx)
Sensor Head Weight	25 kg (approx)
IllumiNITE® Electronic Unit	40 kg, 19" Rack Mount

## Major Advantages

- ◆ Long range night recognition and identification
- ◆ Nighttime nameplate reading (letters and numbers)
- ◆ Human facial ID for identification at night
- ◆ Natural contrast image at night
- ◆ Enhanced observation capability in adverse weather conditions (rain, snow, dust)
- ◆ Penetrates windows and flames
- ◆ Modular, open architecture system, adaptable to E/O and Radar solutions
- ◆ Integrates with existing surveillance system as a part of upgrade program
- ◆ Integrated real time image improvement algorithm (stabilization, enhancement)
- ◆ Advanced automating operating mode – Auto target finding



TELEFUNKEN Radio Communication Systems GmbH & Co. KG  
**Defense & Security**

Eberhard-Finckh-Strasse 55  
 89075 Ulm-Boefingen, Germany

Phone +49 731 . 15 53 - 0  
 Fax +49 731 . 15 53 - 112

info@tfk-racoms.com  
 www.tfk-racoms.com

This publication is to provide general outline information only and does not constitute a representation on behalf of the company.  
 This publication may not be used or reproduced for any purpose other than general acquaintance with the described products and it may be altered by the company without notice.

TELEFUNKEN © licensed by TELEFUNKEN Licenses GmbH

© 2 2011 TELEFUNKEN RACOMS