



The new Galatea MW product is ideal for applications featuring high level of integration and low power consumption.



INFRARED DETECTOR

GALATEA MW

640 x 512 - 15 μm

THE **NEW** GENERATION OF LYNRED **SWAP** DETECTOR SOLUTIONS



HIGH IMAGE QUALITY



MINIATURIZATION



SEAMLESS INTEGRATION

SECURITY



ORDERING REFERENCE: GALATEA MW

GALATEA MW



HIGH RESOLUTION



COMPACT



WEIGHT

THE NEW GENERATION OF LYNRED SWAP DETECTOR SOLUTIONS

PRODUCT EMBEDDED FEATURES

IDCCA	PROXIMITY BOARD	CRYOCOOLER CONTROLLER
-------	-----------------	-----------------------

ARRAY FEATURES

Detector spectral response	■ 3.6 to 4.2 μm
FPA operating temperature	■ Up to 150 K

ROIC (READ-OUT INTEGRATED CIRCUIT)

Selection	■ IWR and ITR
ROIC architecture	■ Direct Injection
ROIC functionalities	■ Invert/Revert
Windowing modes	■ Down to 160x2
Charge handling capacity	■ 2.3 Me-
Signal outputs rate	■ 10 MHz
Frame rate	■ 60 Hz

TYPICAL(*) PERFORMANCES

NETD	■ < 35 mK (27°C, 50% WF, f/4)
Array operability	■ > 99.5%
RFPN at 50% well fill	■ < 0.5 \times RMS noise

CRYOCOOLER CONTROLLER RMs1

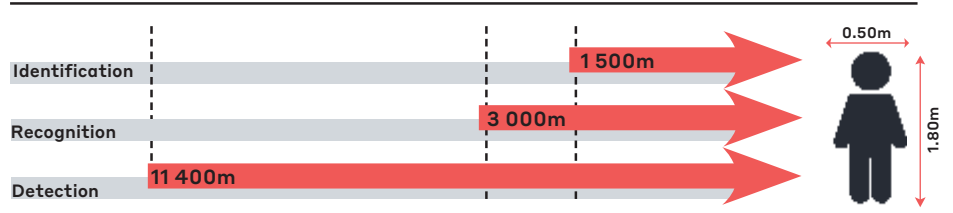
Aperture	f/4; f/5.5
Regulated Input power @20°C	2.7 Wdc
Cooldown Input power @20°C	11 Wdc
Cooldown time @20°C	< 3 mn
Weight	230 g
MTTF (**)	> 12 000 h

(*) Contact LYNRED for available configurations; (**) target values

OPTIONS

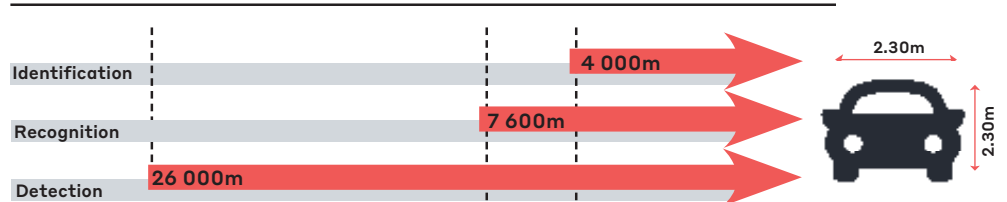
Technical training and support

Theoretical D.R.I Performances (200 mm lens)-Human Target

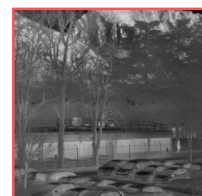


Range for Johnson's criteria, target $\Delta T = 2K$, perfect atmospheric and optics transmissions, theoretical square pixel. f/4 configuration

Theoretical D.R.I Performances (200 mm lens)-2.3 m vehicle target



Range for Johnson's criteria, target $\Delta T = 2K$, perfect atmospheric and optics transmissions, theoretical square pixel. f/4 configuration



LYNRED HEADQUARTERS
Avenue de la Vauve - CS 20018
91127 Palaiseau - France
Tel +33 (0)1 60 92 18 30
info@lynred.com

DEVELOPMENT AND PRODUCTION CENTER
Actipole - CS 10021 - 364 route de Valence
38113 Veurey-Voroize - France
Tel +33 (0)4 76 28 77 00
info@lynred.com

REF. 05/2021/02-LYNRED picture-Printed in France
Technical characteristics described in this data sheet are for information only. They are not contractual and may change without prior notice.