

## EASILY INTERFACED. EASILY INTEGRATED.

TLight, robust, and easy to operate, the new modular line from Telops is specifically designed to be integrated into complex optical systems.

Available in MW or LW, the R100 allows you to get highly contrasted images for a large variety of applications, such as process control & monitoring, and surveillance. Get sharp, crisp images without the hassle.



The R-100 metallic enclosure.

## KEY BENEFITS

### HIGH-SPEED DATA

High-performance electronics provide full frame thermal images up to 200 Hz.

### ADVANCED IMAGE PROCESSING

The R100 provides customizable automatic gain control adjustment, video detail enhancement, and auto-adaptive dynamic range filters to adjust to any type of mission.

### HARDWARE MODULARITY

The R100 has the capability to adjust to any type of system, and can thus communicate with a large selection of motorized optical systems. On request, Telops may also propose alternative IR detector options.

## EXAMPLE OF A TYPICAL USE

Surveillance of urban areas



SPECIFICATIONS		
	R100 M	R100 L
DETECTOR TYPE	MCT	MCT
SPECTRAL RANGE	3.7 $\mu\text{m}$ to 4.8 $\mu\text{m}$ (1.5 $\mu\text{m}$ to 5 $\mu\text{m}$ optional with F/3 aperture)	7.7 $\mu\text{m}$ to 9.3 $\mu\text{m}$
SPATIAL RESOLUTION	640 x 512 pixels	640 x 512 pixels
DETECTOR PITCH	15 $\mu\text{m}$	15 $\mu\text{m}$
APERTURE SIZE	F/2 or F/4	F/2
FRAME RATE	115 Hz	200 Hz
MAXIMUM FRAME RATE	< 25 mK	< 25 mK
TYPICAL NETD	10 000 hrs	10 000 hrs
EXPOSURE TIME	1.4 kg	1.4 kg
LENS MOUNT	Detector max	Detector max



Typical back panel of the R100.

INCLUDES
Camera control: RS232/422
Video output: PAL/NTSC or HDMI
Trigger In/Out LVTTTL
Real time processing (BPR-NUC)
Manual/Auto Gain&Offset Control
Real time adjustable video enhancement
Palette and symbology management
Electronic zoom
Integrable Third party lens control: RS232/422

ENVIRONMENT
Power: 18 to 32 VDC, < 15 W steady state
Operational: -40 to +65 °C
Storage: -40 to +70 °C
Shocks: transport and operational, 30 g, 11 ms ½ sinus
Vibrations: transport and operational, 2,1 g RMS 10-500 Hz

DELIVERABLES
NUC procedure
Optical head
Electronic User Guide and ICD (ENG)
Light case (non reusable)

OPTIONS
CamLink interface board for control and 14 bits digital data
CamLink frame grabber board
GigE interface board for control and 14 bits digital data
Mechanical interface for external lens (bayonet)
Mechanical interface for external lens (thread)
3-m GigE cable
3-m CamLink cable

Specifications are subject to change without notice. Other configurations are available upon request.

FOR MORE INFORMATION | [TELOPS.COM](http://TELOPS.COM)

**TELOPS HEADQUARTERS**  
 contact@telops.com  
 Tel.: +1 (418) 864-7808

**TELOPS USA**  
 vince.morton@telops.com  
 Tel.: +1 (831) 419-7507

**TELOPS EUROPE**  
 eric.guyot@telops.com  
 Tel.: +33 1 70 27 71 34

**TELOPS CHINA**  
 luoyi@telops.com  
 Tel.: +86 139 1065 8965