

LD-2204R/RK SERIES

- 22" Display wide-screen 16:10 High definition
- Digital technology
- Mini conning:

Compass

GPS

AIS view

Depth

Navigation Info

• IVP - Intelligent Video Processing

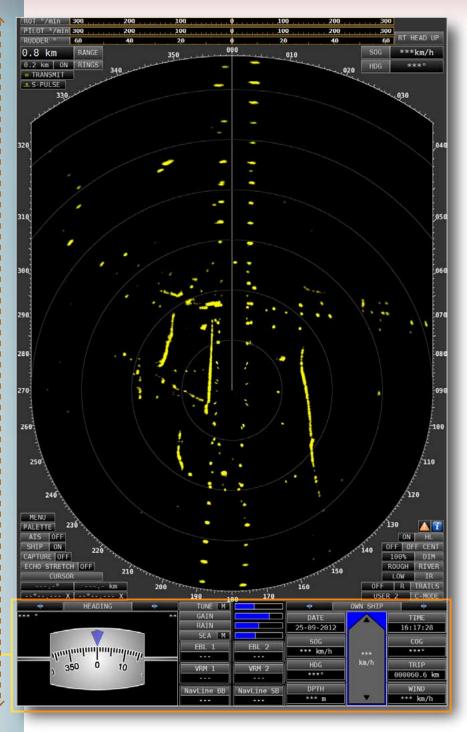
Wide-Screen 16:10

- Real Time Head-Up
- Foolproof
- Ship & Barge Editor
- Compliance ETSI EN 302 194

MINI CONNING



RIVER RADAR



GEM's new and innovative LD2204R/RK river radar series: the new system for a perfect inland navigation

By means of its experience and capacity our company has developed an unrivalled, high resolution and high discrimination radar model LD-2204R series delivering a complete and safe day/night river and narrow waterways navigation. With its exclusive processing technology and a new man-display graphics interface, this equipment meets full standards of Rhine river radar specification, and assures target detection, particularly in very close range and congested areas. Easy to install, the river radar Model LD-2204R series is designed, manufactured and tested against high performance, reliability and quality requirements.





22" DISPLAY WIDE-SCREEN WITH MULTI-MENU

Superior vision towards the bow, thanks to its 22" display in 16:10



DIGITAL TECHNOLOGY

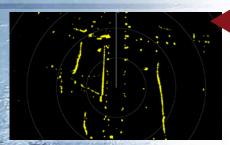
The video signal is transmitted from the radar display via Ethernet.





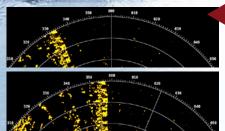
MINI CONNING

One of the many advantages of the screen 22 "is the mini-conning display. Possibility of having more space for menu, including Compass, GPS, AIS, Depth.



IVP - Intelligent Video Processing

Clear display through the application of intelligent filters. The processor implements the techniques of digital filtering of the signal making the image clearer and without false echoes (autoSTC - integration Scan to Scan - False Alarm Reduction, etc ...)



REAL TIME HEAD-UP

The radar image is continuously updated with information from a heading sensor



FOOLPROOF

Particular attention is given to the ease radar operation, with a simple and intuitive interface. In addition, all functions are easily accessible via Track-ball (optional) keyboard and TouchPad.

Wide range of graphic interface customization.



SHIP & BARGE EDITOR

Ability to graphically change the profile of the boat on the radar display by entering the size and the placement of the barges transported.



TYPE APPROVED

The River Series Radar LD-2204R/RK complies with ETSI EN 302 192

RIVER RADAR LD-2204R /RK SERIES

LD-2204R RK/7 **SPECIFICATIONS** RIVER RADAR LD-2204R RK/9

ARRAY UNIT	AU11-07NF	AU11-09NF
Type:	7.5" (2300 mm) slotted wave	9" (2795 mm) eguide array
Polarization:	Horizontal	
Horizontal beamwidth (-3 dB):	1.05° ± 0.1°	0.85° ± 0.1°
Vertical beamwidth (-3dB):	23° ± 3°	
Sidelobe level within 10° from main lobe:	< -26dB	
Sidelobe level outside 10° from main lobe:	< -32dB	
Gain:	30dB ± 1dB	31dB ± 1dB
Rotation speed:	30 r.p.m. nominal	
Resistance to the wind:	Up to 100 km/h	

PROCESSOR UNIT

AIS function Yes, 200 targets (sensor required) Range scales 0.15, 0.3, 0.5, 0.8, 1.2, 1.6, 2, 4, 8, 16, 32, 64 km Range resolution less then 15m Minimum detective range less then 15m ± 1.5% or ± 5m Range accuracy ± 1° max. Bearing resolution

VRM 2 pieces 2 pieces **EBL** Cursor range, bearing and lat/long

manual / Auto Tune manual / Auto STC **FTC** manual

Bearing scale 360° at 1° interval

Heading marker Yes Stern marker Yes (for ferry boats) Parallel line 2 pieces, with readout

2 steps: 20% or 33% in addition to the 66% Off centre permanent fixed extension of the radar

picture in the forward direction. Mini conning display with navigation Information on the bottom

of the radar screen Sector Blanking Yes Intelligent Filter Yes

Display Control Fully controllable by trackball or touchpad

on the keyboard

Trails length 2 different intervals (ETSI EN302-194)

OR 10 (No ETSI EN302-194)

Expansion Yes

Display colour echo 256 levels, 4 colors palette Display colour background 4 colors inside / 4 color outside

Display colours trail 4 colors Own mark

Ship and Barge Editor

Extensive customization of the user interface colors

Time Local or UTC

From GPS (ground distance) Distance counter

Screenshot Internal memory or USB Pen Drive

INPUT SIGNALS

GPS NMEA 2nd GPS **NMEA**

Analog (20mV/degr isolated) or NMEA Analog (20mV/degr isolated) or NMEA Rate of turn Rudder feedback Analog (20mV/degr isolated) or NMEA Automatic pilot

Depth NMEA Wind **NMEA** Course and heading **NMEA** AIS RX NMEA V3 X

Output signals

2nd monitor DVI

Analog Raw video Digital Raw Video Video, Trigger, Bearing Signal (optional)

Ethernet interface (optional) PŎWER

24 Vdc -10% +30% Supply Input

Power Consumption < 400W

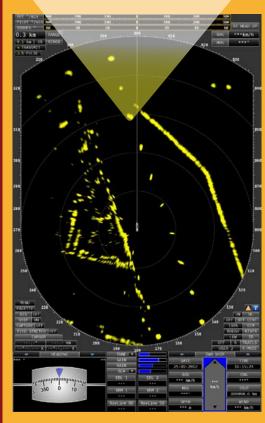
DISPLAY UNIT

Diagonal 22" (16:10) 1050 x 1680 Pixel Mounting

Table top, wall, ceiling (via Vesa Bracket)

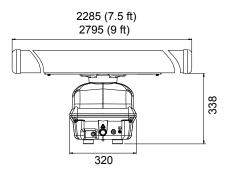


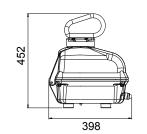




Clear display through the application of intelligent filters.

• 7.5' or 9' Array Unit



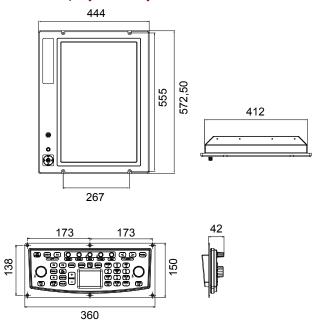


Weight:

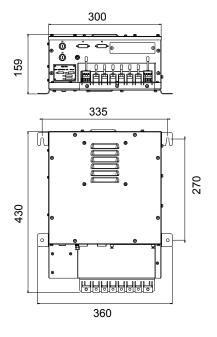
7.5' Antenna + Scanner Unit: 35 Kg. 9' Antenna + Scanner Unit: 37 Kg.

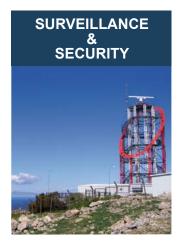
Display: 14.5 Kg. Keyboard: 5 Kg. Processor Unit: 7 Kg.

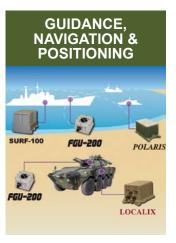
• 22" Display and Keyboard

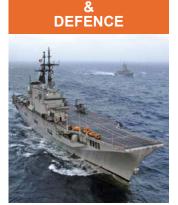


Processor Unit









MILITARY





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