





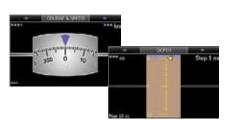
- Digital technology
- Mini conning:
 Compass
 GPS
 AIS view
 Depth
 Navigation Info
- IVP Intelligent Video Processing
- Real Time Head-Up
- Foolproof
- Ship & Barge Editor
- Compliance ETSI EN 302 194

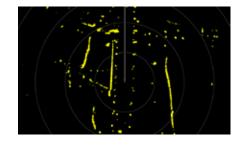
RIVER RADAR

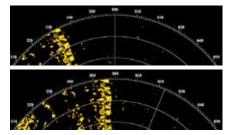
GEM's new and innovative LD2204R/RK river radar series: the new system for a perfect inland navigation

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.















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

LD-2204R RK/7 LD-2204R RK/9

RIVER RADAR

ED 2204K KKY 7			
ARRAY UNIT	AU11-07NF	AU11-09NF	
Туре:	7.5" (2300 mm) 9" (2795 mm) slotted waveguide 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

Yes, 200 targets (sensor required) AIS function 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 \pm 1.5% or \pm 5m Range accuracy ± 1° max. Bearing resolution VRM2 pieces **EBL** 2 pieces

Cursor range, bearing and lat/long

manual / Auto Tune STC manual / Auto FTC manual

scale 360° at 1° interval Bearing

Heading marker Yes

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

Off centre 2 steps: 20% or 33% in addition to the 66%

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 Intelligent Filter

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**

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

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

OUTPUT SIGNALS

2nd monitor

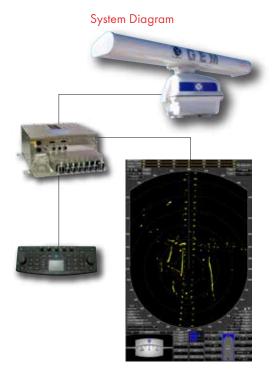
Analog Raw video Video, Trigger, Bearing Signal (optional)

Digital Raw Video Ethernet interface (optional)

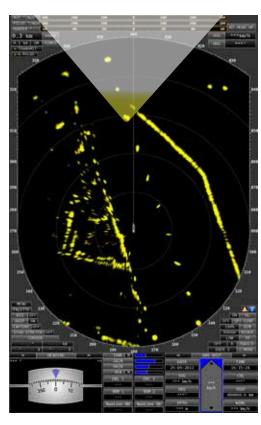
POWER

24 Vdc - 10% + 30% Supply Input

< 400W **Power Consumption**



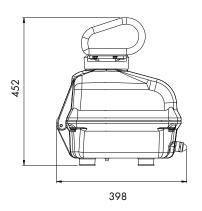




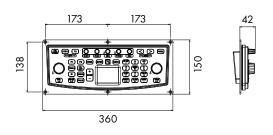
Clear display through the application of intelligent filters.

• 7.5' or 9' Array Unit

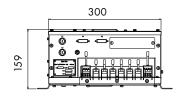
2285 (7.5 ft) 2795 (9 ft) 320

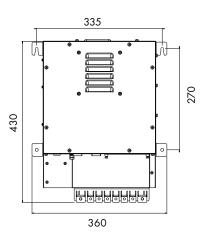


• Keyboard



• Processor Unit





Weight:

7.5' Antenna + Scanner Unit:	35	Kg
9' Antenna + Scanner Unit:	37	Kg
Keyboard:	0.7	Kg
Processor Unit:	7	Kg

This brochure should not be considered a contractual offer to sell. The specifications given herein may be changed by the manufacturer, GEM elettronica, without notice.





