



TCHERNO MORE Co.

TFT RIVER RADAR **MK 6217/9 RT**

This radar offers a high resolution color TFT display. Radar signal is processed and displayed with an extremely good quality. It is designed to improve safety of river vessels of any kind, navigating in rivers, channels, narrow waters, entering or leaving harbours. Can be fitted on sea-going vessels as well. Easy to be installed and maintained, this radar meets the standards of the Rhine River Radar specifications



- Compact 18" TFT display
- Continuous bright multi color picture
- Menu controlled set-up and operation
- Secondary VRM/EBL and a cursor
- Range scales from 160m to 64km
- Rate-of-turn and rudder indicator
- Navigation data interfaces
- Dual navigation lines
- Ship's profile outline
- 6 kW nominal peak power
- Multilevel video, target trails
- 7 or 9 ft antenna with two speeds
- Universal custom design installation

TECHNICAL SPECIFICATIONS

DISPLAY UNIT

(MONITOR, CONTROL PANEL, RADAR DATA PROCESSOR)

Display Screen	18.1" TFT colour screen. High contrast, 1280x1024 pixels, continuous 50% look ahead extension with full 135 mm radius aft. Off-centering: 0.25R, 0.29R and 0.33R
Range Scales	
in km	0.16, 0.3, 0.5, 0.8, 1.2, 1.6, 2, 4, 8, 16, 32, 64
in nm	0.08, 0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48
in sm	0.08, 0.125, 0.25, 0.5, 0.75, 1.5, 3, 6, 12, 24, 48
Range Rings	80 m, 100m, 100m, 200m, 200m, 400m, 400m, 1km, 2km, 4km, 8km, 16km
Range Discrimination	better than 10m
VRM	0.000 to 64km
EBL	Resolution: 0.1°. Two independent pairs of VRM and EBL instruments
Nav. Lines	2 independent lines
Cursor	Trackball, Range /Bearing or Latitude/ Longitude mode.
Own Ship's Outline	Adjustable and saved
Menus	INTEN, VIDEO SET, SETUP. Used to control radar operation and installation setup. When selected they are indicated on the place of the SEA + GAIN indication.
Day / Night	4 adjustable + 2 preset color combinations
Video Processing	State-of-the-art noise processing, 16 level digitization, processing and display of radar image
Rate of Turn and Rudder Indicator	Scales on top of screen with possible analogue Input
NMEA Interfaces	3 pcs. to receive messages from GPS, compass, wind, log and depth-meter
Installation	Suitable for desktop, bulkhead or console mounting

ANTENNA c/w TRANSCIVER UNIT

MK6217RT

MK6219RT

ANTENNA

Type	Slotted, waveguide	
	7ft	9ft
Rotating Speed	32rpm or 45rpm	
Beam width		
horizontal	1.0° ± 0.1°	0.8° ± 0.1°
vertical	25° ± 2.5°	
Gain	30dB	32dB

TRANSMITTER

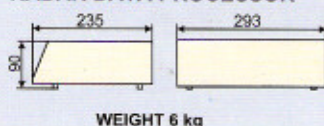
Rated Peak Power	6kW		
Transmitting Frequency	(9410 ± 30)MHz		
Pulse Width	Scales	Frequency	Mode
0.05µs	0.16 + 2km	4kHz	Short Pulse
0.1µs	2; 4km	3kHz	Middle Pulse
0.25µs	2 + 16km	2kHz	Long Pulse
0.25µs	32; 64km (no shift)	1kHz	Long Pulse

RECEIVER

Type	Linear
IF (rated)	60MHz
IF Bandwidth (rated)	25MHz (0.05µs and 0.1µs PW) 5MHz (0.25µs PW)
Noise Figure (rated)	Better than 6dB
Tuning	Manual control with fine tuning indication

Supply Voltage	24V DC
Power Consumption	less than 220W (260W high speed)
Ambient Conditions	meets the Regulations Regarding the Minimum Requirements and Test Conditions for Radar Equipment Used for River Rhine and Inland

RADAR DATA PROCESSOR



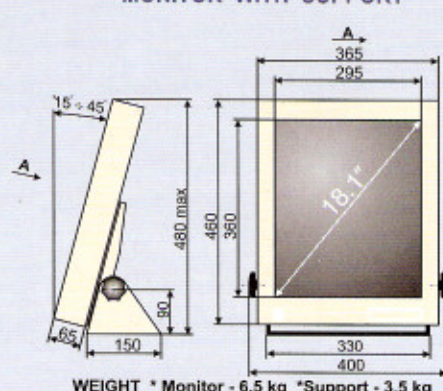
WEIGHT 6 kg

CONTROL PANEL



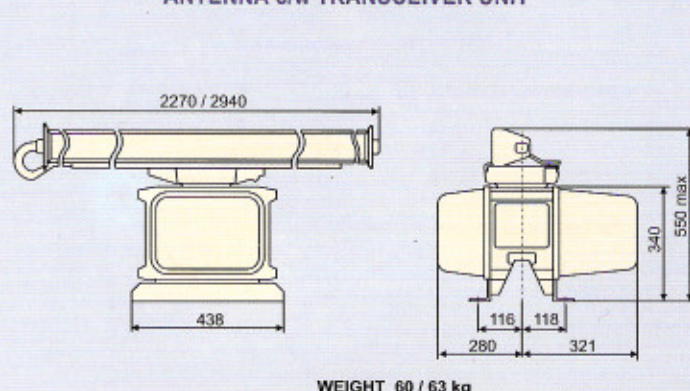
WEIGHT 2.8 kg

MONITOR WITH SUPPORT



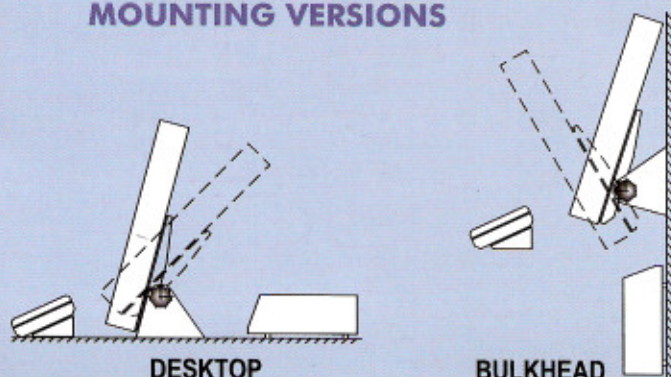
WEIGHT * Monitor - 6.5 kg *Support - 3.5 kg

ANTENNA c/w TRANSCIVER UNIT



WEIGHT 60 / 63 kg

MOUNTING VERSIONS



TCHERNO MORE

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