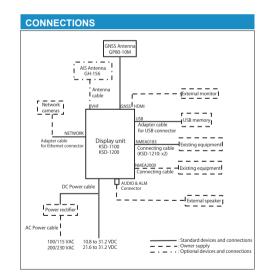
SPECIFICATIONS

Model	KSD-1100	KSD-1210	
Operation System	Android 5.1 with OpenGL ES 3.0 & OpenCL 1.1		
CPU	Cortex-A17 Quad core		
CPU Speed	18 GHz 32 bit		
RAM	2GB DDR3 1333MHz		
Flash Memory	16GB		
Display Size and type	10 1 inch Canacitive multi touch screen	21.5 inch Capacitive multi touch screen	
Brightness	600 cd/m² (Max)	21.5 Inch Capacitive multi touch screen	
Display Resolution	1280 x 800 (WXGA)	1920 x 1080 (1080P)	
Power supply	10.8 VDC to 31.2 VDC	21.6 VDC to 31.2 VDC	
Power Consumption	15W	60W	
GNSS	GPS / BDS / GPS & BDS		
	Position accuracy < 10m. 95% typical		
	Cold start time: 32 sec or less. Warm start time: 1 s	ec or less	
Audio power	1W	3W	
MicroSD Card Slot	2 ports (Support MicroSD card 32GB or less)		
Bluetooth	BT40		
Wi-Fi	802.11 blg/n		
Input data formats	NMEA0183		
and sentences	DPT. GGA. GLL. HDT. MTW. MWD. MWV. RMC. THS. VTG. ZDA		
	NMEA2000		
	129025, 129026, 129029, 129033, 129539, 129540, 126992, 127250, 127258, 129038, 129040, 129041,		
	129793, 129794, 129809, 129810, 129795, 129797, 129801, 129802		
Output data formats	NMEA0183		
and sentences	APB, BOD, BWC, DPT, GGA, GLL, GSA, GSV, HDT, MTW, MWD, MWV, RMB, RMC, THS, VTG, WPL, XTE, ZDA		
	NMEA2000		
		127250, 129038, 129039, 129040, 129041, 129793,	
	129794, 129809, 129810, 129795, 129797, 129801,		
NMEA ports	Total: 4 ports Input: 2	Total: 7 ports Input: 4	
	Output: 1 Input / Output: 1 (Output: AIS fixed)	Output: 2 (GNSS or AIS or GNSS & AIS fixed: 1) AIS Output: 1	
Audio output	1	Als Output. 1	
Alarm output	1		
LAN net work			
	1000 Mbps		
Operating Temperature	-15°C to +55°C		
AIS Class B			
Frequency	156.025 to 162.025 MHz		
Bandwidth	25 kHz		
Modulation Number of AIS transmitter	GMSK / FM 1 channel		
Number of AIS transmitter Number of AIS receiver			
NUMBER OF AIS RECEIVED	2 channels: Channel A CH87B (161.975MHz), Channel B CH88B (162.025MHz)		
	Channel A CH8/B (161.9/5MHZ), Channel B CH88	B (162.025MHZ)	



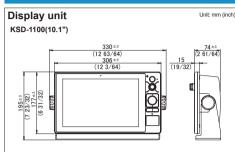
EQUIPMENT LIST

Standa

Options

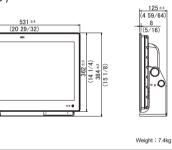
rd Equipment	Display unit	1
	DC power cable	1
	Connecting cable (KSD-1100)	1
	Connecting cable (KSD-1210)	2
	GNSS Antenna	1
	Adapter cable for USB connector	1
	Adapter cable for Ethernet connector	1
	Operation Manual, Connector, Connector cap, Installation material	
3	AIS Antenna, AIS Mounting bracket Set	

DIMENSIONS AND WEIGHT



Weight: 2.1kg

Display unit KSD-1210(21.5")



Design and specifications are subject to change without notice.



Telefono 010 870058 r.a. Telefax 010 870248 apelmar@koden.it www.koden.it

KODEN 10.1-inch / 21.5-inch Multi Function Display KSD-1100 / 1210



By installing network cameras*, it is possible to monitor onboard and outboard conditions up to four screens.

Easy touch screen and mouse* operation

Support variety charts of C-MAP (MAX)*, original chart, ENC chart*. It also supports to overlay satellite images on the chart.

Easy operation

Chart display

The KSD-1100 is equipped with an operation panel. *Owner supplied

The touch screen makes it easy to use! Easy to see! Affordable! AIS Class B Transceiver integrated multifunction display

KSD series Multi Function Display provide an intelligent system and multi-task operation networking solution. It supports Ethernet, Wi-Fi to realize update software online and other cloud services.

Chart Plotter

Compact and easy to use chart plotter. There are three kinds of chart; C-MAP, ENC and original chart. (C-MAP & ENC are owner supply.)



Screen Operation

Panel Operation Mouse Operation

Built-in AIS Class B Transceiver

Equipped with AIS (Automatic Identification System) Class B essential for safe navigation. The AIS target will be overlaid on chart with customer setting. AIS Class B transceiver will automatic transmit the own ship position, speed, course, MMSI, SMS etc.



AIS targets overlaid on the chart, variable rang rings around own ship is shown by setting radius, it is for user reference easily to observe AIS targets real-time dynamic information.

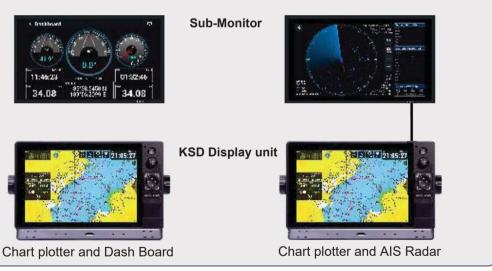


AIS Group Management AIS group management helps user to do real-time monitoring COG, SOG, HDG, distance moved and other dynamic information of each member by groups.

Dual monitor

You can connect to a sub-monitor to display a screen different from the main screen.

Dual screen images -



Other screen images

