KONGSBERG
AUTOMOTIVE

ELECTRONIC SYSTEMS

KAntrak 3700 COLOR DISPLAY

OEM Off-Highway innovators' top 10 PRODUCTS 2012 Award Winner

AT A GLANCE

- Widescreen 4.3" Graphical high resolution TFT LCD Display
- 1000 Nit Display (Brightness)
- (2) CAN-bus port, optional LIN Bus
- IP67 Protection Rating
- Wide operating temperature range (+85 -40° C)
- Linux Operating System
- 5 Soft keys provide easy navigation through software screens
- USB mini AB on the go, microSD Card
- Video Input (NTSC/PAL)
- Front and rear mountable (fitting kits required)
- Optional GPS with Integrated Antenna
- Optional Bluetooth

Product Description

KAntrak displays have established a new standard for intelligent, multi-function displays and are the perfect platform to empower your electronic systems with flexibility and control.

The new KAntrak 3700 utilizes updated electronic hardware to provide optimum LCD performance whilst ensuring the design is future proof. The ideal man-machine interface monitors numerous CAN-based messages and displays the current status of user defined parameters. With its J1939 data bus, the KAntrak offers easy integration into most third party CAN-based systems. It can also be combined with many other Kongsberg Automotive electronic products, such as the MCM, DCSM, KCIM, SKIM, and digital keypads, to create a full scale monitoring and control system for virtually any type of on-road or off-road vehicle.

The KAntrak display is easily configured with user-friendly software options to suit virtually any application:

- Generic Engine Monitoring (GEM): Plug-and-go monitoring of the most popular J1939 engine parameters
- Software Development Kit (SDK): Allows full programming of the display using 'C/C++' language
- Custom software: Kongsberg Automotive can also provide a custom software service to suit your exact application requirements.

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ELECTRONIC SYSTEMS

KAntrak 3700 COLOR DISPLAY

Product Specifications

Specifications

Display

Size / type:	4,3"/TFT
Orientation / Ratio:	Landscape / 16:9
Brightness:	1000 Nits for direct sunlight readability
Brightness Configuration:	Software Controllable
Resolution:	480 x 272
Viewing Direction:	6 O´clock

CPU & Peripherals

Main CPU:	IMX
GPU:	YES with OpenGL ES 2.0
RAM:	256 MB
STORAGE (Onboard):	512 MB
USB:	On-the-go; type miniAB
SD Card:	MicroSD (closed door for IP protection)
GPS:	Optional
Video Input Format / Rate:	NTSC/PAL; 15FPS
Configurable I/O's:	3 configurable I/O's or 2 full + 1 LIN bus

Software

OS:	Linux OS (Freescale BSP)
SDK Environment:	Multi OS (Win, Mac, Linux) through VM
Field Flashable:	YES - BSP through micro SD

Housing

Plastic:	PC-ABS
Lens:	Acrylic - High scratch resistance
Keypad:	5 Buttons silicone
Keypad Lighting:	Multicolor (Allows to adjust to cab lighting)
Mounting:	Front, Rear (Flush mount), Trunion kit
Mounting screws:	4x M4 inserts
Dimensions (approx):	129mm X 107mm X 25mm

Environment Testing

Temp. Operating and Storage (°C):	+ 85° C to -40° C
IP:	IP67
RoHS / WEEE / CE:	YES / YES / YES

Vehicle Network

Number of CAN Bus:	2
NMEA Protection:	Optional: NONE / CAN 1 Only / CAN 1&2
LIN Bus:	Optional

At a glance

- Excellent sunlight readability with 1000 Nit TFT LCD
- Anti-glare finish
- Integrated Deutsch 12 way connector
- 3 Config. I/O's can be configured as:
  1. Frequency Meter
  2. Digital I/O
  3. Low side Output
  4. Analogue Input
  5. Volt Meter
  6. Ohm Meter
  7. Amp Meter
  8. PWM Output
  9. Ignition Input
- Connector Pin Identification:
  1. Power –ve
  2. Power +ve
  3. CAN HI (1)
  4. CAN LO (1)
  5. Config. I/O (1)
  6. Config I/O (2)
  7. CAN LO (2)
  8. CAN HI (2)
  9. Ignition
  10. Config. I/O (3) – or LIN Bus (optional)
  11. Video In (-)
  12. Video In (+)
- SDK Available
- Optional Rear Mount and Trunion Mount Kits available

Standard Mounting Dimensions