

## **TREK-303**



### 7" Smart Vehicle Display

#### **Features**

- 7" display with touchscreen supports both 480 x 234 and 800 x 480 resolutions for different LCD panels
- -30 to 70° C wide range temperature support
- Five user-defined function keys, 2 watt speaker, and USB host.
- Option to support auto-adjust light sensor
- One cable connects with TREK-5xx series
- Wake up/power button on back for easy to wake up/power up
- CE/FCC/E13 certified



### Introduction

The TREK-303 is a vehicle display system for Mobile Resource Management (MRM) applications in trucks, buses and taxis. The TREK-303 touch panel is the perfect size for tight spaces; ideal for fleet management and dispatch applications. It also meets requirements for automotive grade working temperatures (-30 ~ 70° C). TREK-303 provides excellent display capabilities, featuring light-weight housing, compatible with RAM mounting solutions that customers can easily install. TREK-303 supports two display resolutions. The low resolution panel is design compatible with TREK-510 vehicle computing system; the high resolution panel is design compatible with TREK-550 computing system. TREK-303 is designed with drivers in mind: when the system requires powering up or waking up, it can be easily controlled from the button located in back; and for night driving, the panel has an auto detecting light sensor to automatically adjust brightness. TREK-303 is a smart display designed especially for truck, bus, and taxi drivers.

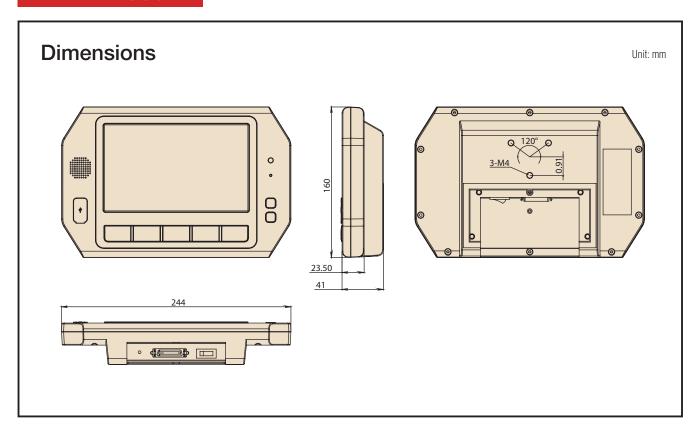
## **Specifications**

Design Compatible Models   Paired with TREK-510   Paired with TREK-550   Resolution (pixel)   480 x 234   800 x 480     LVDS interface   Supports 18-bit     Pixel Pitch   0.321 (W) x 0.370 (H)   0.2168 (H) x 0.2168 (V)     Brightness (cd/m²)   450 (typical) with touchscreen   400 (typical) with touchscreen     View Angle (R/L/B/T)   70° / 70° / 65° / 50°   70° / 70° / 60° / 60°     Contrast Ratio   200   500     Lamp Life (hrs)   20,000 (hrs)   50,000 (hrs)     Lamp Type   LED     Touchscreen   Touchscreen   4-wire resistive     Speaker   2 watts     Hotkey   Supports 5 hotkeys (user defined)     Brightness Control   Manually controlled by button (default), Light sensing (optional)     USB Host   x 1   Yes     Reset Button   Yes     Power Make Ulp Switch   Yes     Reset Button   Text Yes     Power Consumption   -12 W (Max.), -4 W (normal)   -12 W (Max.), -9 W (normal)     Mechanical   Material   PC     Weight   1 kg     Dimensions   244 x 160 x 41 mm					
Resolution (pixel)	LCD	Models	TREK-303R-LA0E	TREK-303R-HA0E	
LVDS interface		Design Compatible Models	paired with TREK-510	paired with TREK-550	
Description		Resolution (pixel)			
Brightness (cd/m²)		LVDS interface	supports 18-bit		
Brightness (cd/m²)		Pixel Pitch	0.321 (W) x 0.370 (H)	0.2168 (H) x 0.2168 (V)	
Contrast Ratio   200   500     Lamp Life (hrs)   20,000 (hrs)   50,000 (hrs)     Lamp Type		Brightness (cd/m²)	450 (typical) with touchscreen	400 (typical) with touchscreen	
Lamp Life (hrs)   20,000 (hrs)   50,000 (hrs)     Lamp Type		View Angle (R/L/B/T)	70° / 70° / 65° / 50°	70° / 70° / 60° / 60°	
Lamp Type  Lamp Type  Touchscreen  Touchscreen  Speaker  Speaker  Hotkey  Brightness Control  USB Host  Reset Button  Power  DC Input  Power Consumption  Mounting  Mounting  Mounting  Material  PC  Weight  Dimensions  LED  LED  LED  LED  LED  LED  LED  LE		Contrast Ratio	200	500	
Touchscreen Touchscreen Speaker Speaker 2 watts Hotkey Supports 5 hotkeys (user defined) Brightness Control USB Host Annually controlled by button (default), Light sensing (optional) USB Host X 1  Power /Wake Up Switch Reset Button Power Power  DC Input Power Consumption Annually controlled by button (default), Light sensing (optional) Yes  Power  Power /Wake Up Switch Reset Button Yes  DC Input 12 V +- 5% Power Consumption Annually Controlled by button (default), Light sensing (optional) Yes  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Power  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes  Annually Controlled by button (default), Light sensing (optional)  Yes		Lamp Life (hrs)	20,000 (hrs)	50,000 (hrs)	
Front plane    Speaker   2 watts   Hotkey   Supports 5 hotkeys (user defined)		Lamp Type	, ( )		
Front plane  Hotkey Brightness Control USB Host X 1  Power /Wake Up Switch Reset Button  Power  DC Input Power Consumption  Mounting Mounting Material PC Weight Dimensions  Supports 5 hotkeys (user defined) Manually controlled by button (default), Light sensing (optional)  Yes  Yes  12 V +- 5% Power (normal)  -12 W (Max.), ~4 W (normal)  -12 W (Max.), ~9 W (normal)	Touchscreen	Touchscreen	4-wire resistive		
Brightness Control USB Host VSB Host VS		Speaker	2 watts		
Brightness Control USB Host x 1  Power /Wake Up Switch Yes Reset Button Yes  DC Input 12 V +- 5% Power Consumption -12 W (Max.), ~4 W (normal)   ~12 W (Max.), ~9 W (normal)  Mechanical Material PC Weight 1 kg Dimensions 244 x 160 x 41 mm	Front plans	Hotkey	Supports 5 hotkeys (user defined)		
Back plane         Power / Wake Up Switch Reset Button         Yes Yes           Power         DC Input Power Consumption         12 V +- 5% Power Consumption         -12 W (Max.), ~4 W (normal)         ~12 W (Max.), ~9 W (normal)           Mounting Material PC Weight 1 kg Dimensions         PC         Weight 1 kg           Dimensions         244 x 160 x 41 mm	From plane	Brightness Control			
Reset Button   Yes		USB Host			
Reset Button   Yes	Back plane	Power /Wake Up Switch	γ	/es	
Power Consumption ~12 W (Max.), ~4 W (normal) ~12 W (Max.), ~9 W (normal)  Mounting Design compatible with RAM mount  Material PC  Weight 1 kg Dimensions 244 x 160 x 41 mm				'es	
Mounting Design compatible with RAM mount  Mechanical PC  Weight 1 kg Dimensions 244 x 160 x 41 mm	Power	DC Input	12 V +- 5%		
Mechanical         Material Weight         PC PC           Dimensions         244 x 160 x 41 mm		Power Consumption	~12 W (Max.), ~4 W (normal)	~12 W (Max.), ~9 W (normal)	
Mechanical Weight 1 kg Dimensions 244 x 160 x 41 mm	Mechanical	Mounting	Design compatible with RAM mount		
Weight 1 kg Dimensions 244 x 160 x 41 mm		Material			
		Weight	1 kg		
Operating Temperature -30 to +70° C		Dimensions	244 x 160 x 41 mm		
		Operating Temperature	-30 to + 70° C		
Storage Temperature -40 to +80° C	Environment	Storage Temperature	-40 to +80° C		
Environment Vibration MIL-STD-810G, SAE J1455 4.9.4.2			MIL-STD-810G, SAE J1455 4.9.4.2		
IP Rating IP 43 (whole system), IP 54 (without I/O)		IP Rating	IP 43 (whole system), IP 54 (without I/O)		





# **TREK-303**



## Fully Integrated I/O



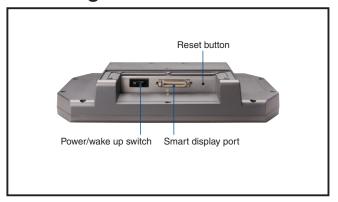
A. USB Host B. 5 programmable hotkeys C. D. Brightness control E. Power LED F. Light sensor G. Speaker

Note: Backlight off: Press C button to the lowest level

## **Ordering Information**

Part Number	Description
TREK-303R-LA0E	7" vehicle display system, 480 x 234 resolution, with 4 wire resistive touchscreen, 2-watt speaker
TREK-303R-HA0E	7" vehicle display system, 800 x 480 resolution, with 4wire resistive touchscreen, 2-watt speaker
RAM-MOUNT-02	RAM mount with 1.5" ball, VESA mount base
1700018342	2-meter cable(paired with TREK-5XX)

## **Mounting Kits**



## **Packing List**

Description	Part Number	Quantity
TREK-303R	-	1
RAM mount screw	1930001722	3

