

TBX-Series LCD Monitor 22"



The Onboard Display Choice for Passenger Information Systems

The onboard displays for passenger information systems are specifically designed for delivering real-time route information, traffic messages, advertisements, emergency information, travel guides, and video surveillance live feeds for in-vehicle signage and security solutions on moving vehicles such as buses and coaches. The TBX-Series passenger information displays have E-Mark (E-13) certification and offer several improvements to current in-vehicle passenger information systems. Wide range power supply protects displays from damage in case of voltage fluctuation. Metal casing and NeoV™ Optical Hard Glass screen bolster anti-vandal capabilities. Thanks to NeoTransPro™ Installation Suite, users can easily install and control multiple displays without additional in-vehicle certified devices. TBX-Series displays are designed to provide a passenger information display solution with quality and efficiency for in-vehicle signage and security systems.



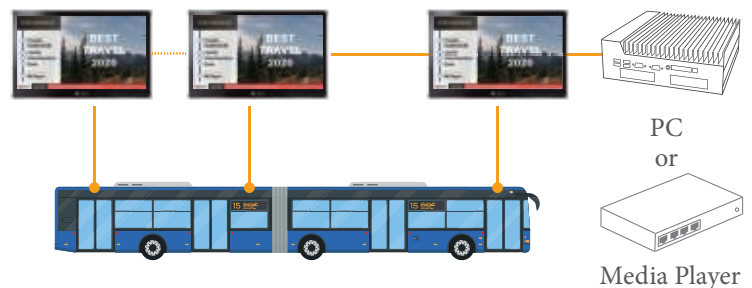


Vandal-Proof Onboard Displays

The TBX-Series passenger information displays are certified with E-13, offering a reliable and safe digital signage solution for vehicles. Metal casing and IK07 rated NeoV™ Optical Hard Glass with high impact resistance protect displays from vandalism and damage. Industrial-grade wide-range power supply unit, for 8-36 V, provides the TBX-Series protection against power fluctuation and ensures usability as well as safe operation on moving vehicles.

Hassle-Free Setup and Control

NeoTransPro™ Installation Suite is designed to offer an efficient solution for onboard passenger information display installation and control. With RS232 and LAN capability, users have different options to centrally control all connected displays effectively. NeoTransPro™ Installation Suite simplifies passenger information system installation and makes long-distance connection easy without a need for additional devices.



Light Environment



Dark Environment

Easily Readable While Moving

The TBX-Series passenger information displays with adaptive visibility are able to detect the ambient light levels and adjusts the display brightness, ensures readability and optimized energy efficiency. This enables the displays to remain easily viewable on sunny days or in the environment with lower light conditions. Passengers can comfortably and clearly view content while traveling onboard.

Cable Management System - Keep Safety in Mind

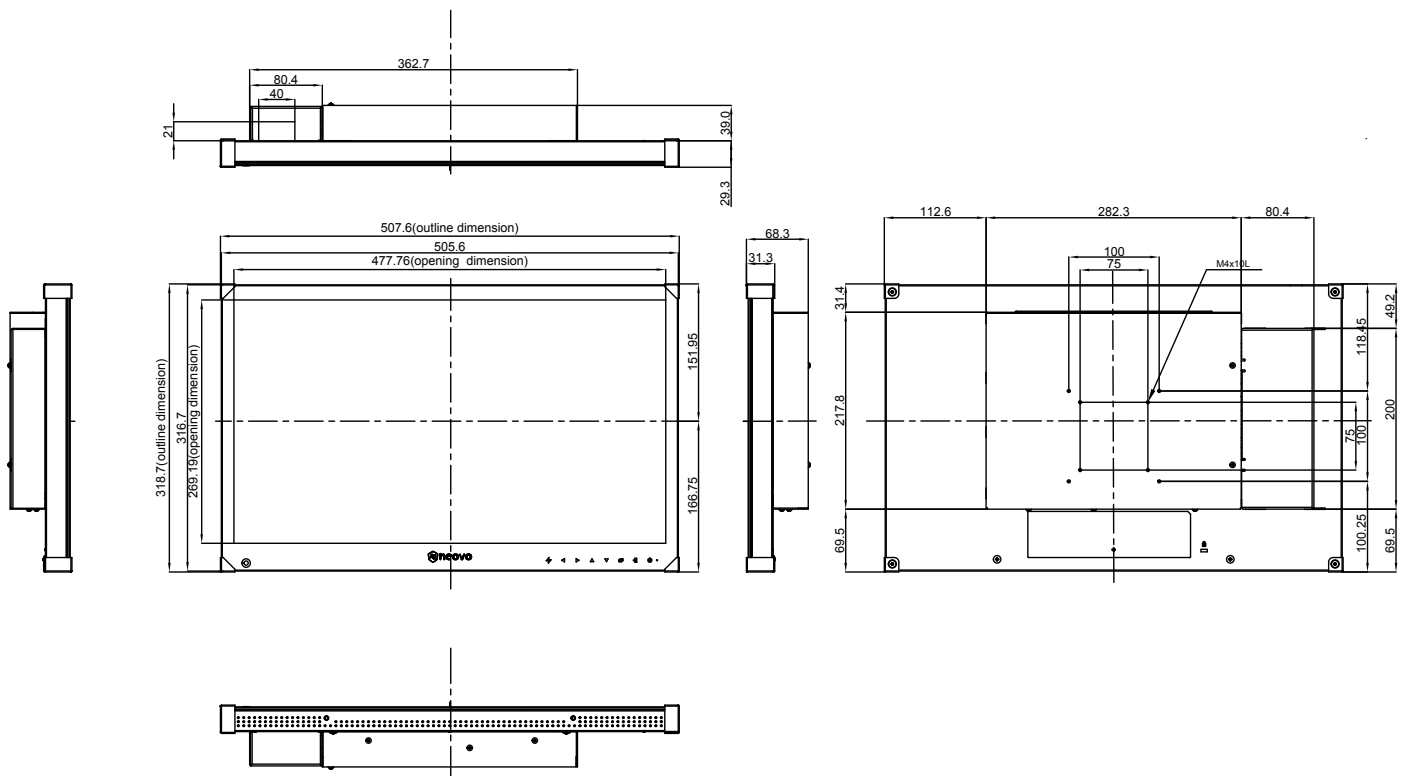
Installation in moving vehicles requires appropriate cable management. The built-in cable management system hides the connectors and cable clutter, providing a refined appearance and protecting cables from tampering. The lock design of the cable management system keeps cables securely in place and prevents them from loosening or falling out due to vibration.



Features

- Full HD 1920 x 1080 resolution
- Wide range power supply (DC 8-36V)
- E-13 vehicle certification
- NeoTransPro™ Installation Suite for hassle-free installation and control, and long-distance connection without degradation
- NeoV™ Optical Hard Glass and metal housing for excellent cleanability and protection
- Designed and developed for continuous 24/7 operation
- Anti-Burn-in™ technology prevents image ghosting
- Front-sided IP22 Compliant (IEC 60529 Standard)
- Adaptive visibility by adjusting brightness level according to ambient lighting conditions
- Premium-grade panel for high reliability and long product lifetime
- Cable management system for keeping cables organised and protecting them from tampering

Dimensions (Unit: mm)



Specifications

TBX-2201

Panel

Panel Type	LED-Backlit TFT LCD (VA Technology)
Panel Size	21.5"
Max. Resolution	FHD 1920 x 1080
Pixel Pitch	0.248 mm
Brightness	250 cd/m ²
Contrast Ratio	20,000,000:1 (DGR)
Viewing Angle (H/V)	178°/178°
Display Colour	16.7M
Response Time	5ms
Surface Treatment	High resolution adaptable AG, 3H hard coating, Haze 25%

Frequency

Frequency (H)	24 kHz-83 kHz
Frequency (V)	50 Hz-85 Hz

Signal Input

HDMI	1.4 x 1
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Signal Output

HDMI	1.4 x 1
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External Control

RS232 In	2.5 mm Phone Jack
RS232 Out	2.5 mm Phone Jack
LAN	RJ45 x 1

Other Connectivity

USB	2.0 x 1 (Service Port)
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Audio

Internal Speakers	2W x 2
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Power

Power Requirements	DC 8V ~ 36V/ 50W
On Mode	19W (On)
Stand-by Mode	< 2.8W
Off Mode	< 2.8W

Glass

Thickness	3.0 mm (0.12")
Reflection Rate	< 1%
Transmission Rate	> 97%
Hardness	> 9H

Operating Conditions

Temperature	0°C-40°C (32°F-104°F)
Humidity	10%-90% (non-condensing)

Storage Conditions

Temperature	-20°C-60°C (-4°F-140°F)
Humidity	5%-95% (non-condensing)

Mounting

VESA FPMPMI	Yes (100 x 100 mm & 75 x 75 mm)
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Security

Kensington Security Slot	Yes
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Dimensions

Product w/o Base (W x H x D)	507.6 x 318.7 x 68.3 mm (20.0" x 12.6" x 2.7")
Packaging (W x H x D)	613.0 x 488.0 x 213.0 mm (24.1" x 19.2" x 8.4")

Weight

Product w/o Base	6.8 kg (15.0 lb)
Packaging	8.2 kg (18.1 lb)

Regulation Approval

Certifications & Compliance	CE, E-13, LVD, RoHS, WEEE, REACH
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Accessories

Supplied	Quick Start Guide, Warranty Card
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Optional Accessories

Ceiling Mount (Landscape only)	CMP-01+WMK-03
Wall Mount (Landscape only)	WMA-01, WMK-01, WMK-03, PMK-01
Desk mount (Landscape only)	DMC-01, DMC-02D, DMS-01D, DMS-01Q, ES-02

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