

ISMART ULTRA-WIDE DISPLAY

Opening up new dimensions

Outstanding width of iSmart Ultra-Wide Display gives you the opportunity to completely rethink the conventional route map by adding real-time information: connections, arrival time, and door operations.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.

KEY FEATURES

One-piece 1800 mm TFT Construction

Thanks to our in-house cutting process, we can deliver very wide iSmart Display with a narrow gap of 6 mm between the TFT panels.

Wide Viewing Angle

Enhanced optical filters provides wide angle of vision to make iSmart Display easy to read from anywhere in the coach.

Constant Luminosity Guaranteed for 15 years

Thanks to unique backlight intelligent management, iSmart Display has a constant luminosity and a much longer life.



Concept Under Development **Available**

PRODUCT SPECIFICATION

TFT PANEL

Technology LCD TFT

Screen diagonal 2 x Full HD 41.5" 1/3 cut = 37" (other size on request)

Aspect ratio 32:3

Maximum brightness 1500 cd/m² (typ.)

Brightness control By ambient brightness

Contrast 3000:1 (typ.)

Viewing angle Horizontal 176° (typ.), vertical 176° (typ.)

LED backlight lifetime 100 000h

CONTROLLER

Operating system LINUX

Ethernet network 100 MBit/s

Protocols VDV301, ITxPT, HTML, MQTT, SNMP, WebRTC, RTSP, TrainIT, TRDP

(IEC61375-2-3), CIP, IPTCOM...

HOUSING

Enclosure material Aluminum

Protection class acc. EN 60529 IP54 (higher on request)

Front Glass Laminated safety glass 4.38 mm

Anti-reflection coating Chemical

OPERATION

Temperature range in operation EN 50155 OT3, -25 °C to +70 °C

Power supply 110 V DC, 72 V DC, 24 V DC

STANDARDS

Railway applications EN 50155:2017

EMS EN 50121-3-2:2015

Fire safety EN 45545-2:2020-10

CONTACT

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ISMART CEILING

DISPLAY

Opening up new dimensions



UNIQUE FEATURES

Only 28 mm Thick

Wrapped in an aluminum body and guarded by vandal-resistant safety glass, iSmart Display combines aesthetics and ruggedness.

High-Quality Visual Rendering

Enhanced optical filters increase visibility and brightness of iSmart Display's 1920 x 360 pixels high-resolution screens.

Low Energy Consumption

Wabtec's unique backlight technology reduces the energy consumption of the iSmart Display by 40% and increases its lifetime.

Double Sided

Independent content on each display side.

The high definition iSmart Ceiling Display is the perfect companion for rich travel information. Its remarkably thin design provides an impression of lightness while being extremely robust.



The iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.

Concept Under Development Available

PRODUCT SPECIFICATION

TFT PANEL

Technology LCD TFT

Screen diagonal Full HD 41.5" 1/3 cut = 37" (other size on request)

Aspect ratio 16:3

Maximum brightness 700 cd/m² (typ.)

Brightness control By ambient brightness

Contrast 3000:1 (typ.)

Viewing angle Horizontal 176° (typ.), vertical 176° (typ.)

LED backlight lifetime 100,000h

CONTROLLER

Operating system LINUX

Ethernet network 100 MBit/s

Protocols VDV301, ITxPT, HTML, MQTT, SNMP, WebRTC, RTSP, TrainIT, TRDP

(IEC61375-2-3), CIP, IPTCOM...

HOUSING

Enclosure material Aluminum

Protection class acc. EN 60529 IP54

Front glass Laminated safety glass 4.38 mm

Anti-reflection coating Chemical

Weight 4 kg

OPERATION

Temperature range in operation EN 50155 OT3, -25 °C to +70 °C

Power supply 110 V DC, 72 V DC, 24 V DC

STANDARDS

Railway applications EN 50155:2017

EMC EN 50121-3-2:2015

Fire safety EN 45545-2:2020-10

CONTACT

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ISMART PARTITION GLASS

Opening up new dimensions

Adding displays in the platform area can be a challenge. So why not install partition glasses, and integrate the display into them? This is one of the main concepts behind Wabtec's iSmart Partition Glass: Smart integration of a removable double-sided display into a glass partition.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.



KEY FEATURES

Easy Maintenance

The display can be removed from the glass partition without disassembling the partition glass itself.

High Safe Load Partition at Only 30 mm Thick

Double Sided

Independent content on each display side.

Low Consumption

Wabtec's unique back light technology reduces the energy consumption of the iSmart Display by 40% and



Concept Under Development Available

PRODUCT SPECIFICATION

TFT PANEL

Technology LCD TFT

Screen diagonal 21.5" (other size on request)

Aspect ratio 9:16

Maximum brightness 700 cd/m² (typ.)

Contrast 1000:1 (typ.)

Viewing angle Horizontal 176° (typ.), vertical 176° (typ.)

LED backlight lifetime 100,000 h

CONTROLLER

Operating system LINUX

Ethernet network 100 MBit/s

Protocols VDV301, ITxPT, HTML, MQTT, SNMP, WebRTC, RTSP, TrainIT, TRDP

(IEC61375-2-3), CIP, IPTCOM...

HOUSING

Enclosure material Glass + aluminum

Protection class acc. EN 60529 IP54 (higher on request)

Glass Safety glass

Thickness of the partition 30 mm

Maximum safe load $2 \text{ kN} / 0.01 \text{ m}^2$

OPERATION

Temperature range in operation EN 50155 OT3, -25 °C to +70 °C

Power supply 110 V DC, 72 V DC, 24 V DC

STANDARDS

Interior glazing for rail vehicles EN17530

Electronics for rail vehicles EN 50155

EMC EN 50121-3-2

Fire safety EN 45545-2

Shock and vibration EN61373 – 1B

CONTACT

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ISMART STRIP DISPLAY

Opening up new dimensions

iSmart Strip Display is a great replacement for conventional reservation, ceiling, and partition displays in coaches. Its ideal location under the luggage rack provides all journey information near the passengers: seat reservation, next stops, toilet occupancy, bar direction, Wi-Fi status, special messages, breaking news. The location of reservation information follows the moving chair.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.

KEY FEATURES

Custom TFT Construction

Thanks to our in-house cutting process, we can deliver iSmart Strip Display which can be perfectly integrated under the luggage rack.

Constant Luminosity Guaranteed for 15 years

Thanks to unique backlight intelligent management, iSmart Display has a constant luminosity and a much longer life.

Easy Content Management Logical display management provides a method of allocating virtual screens on the display strip that can be operated as real screens. 47 🖪 Available

Concept Under Development Available

PRODUCT SPECIFICATION

TFT PANEL

Technology LCD TFT

Screen diagonal 55" 1/9 cut = 37" (other size on request)

Aspect ratio 2 x 16:1

Maximum brightness 1500 cd/m² (typ.)

Brightness control By ambient brightness

Contrast 1000:1 (typ.)

Viewing angle Horizontal 176° (typ.), vertical 176° (typ.)

LED backlight lifetime 100 000h

CONTROLLER

Operating system LINUX

Ethernet network 100 MBit/s

Protocols VDV301, ITxPT, HTML, MQTT, SNMP, WebRTC, RTSP, TrainIT, TRDP

(IEC61375-2-3), CIP, IPTCOM...

HOUSING

Enclosure material Aluminum

Protection class acc. EN 60529 IP54 (higher on request)

Front Glass Laminated safety glass 4.38 mm

Anti-reflection coating Chemical

OPERATION

Temperature range in operation EN 50155 OT3, -25 °C to +70 °C

Power supply 110 V DC, 72 V DC, 24 V DC

STANDARDS

Railway applications EN 50155:2017

EMS EN 50121-3-2:2015

Fire safety EN 45545-2:2020-10

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ISMART TRANSPARENT DISPLAY

Opening up new dimensions

Featuring multi-touch technology, the highly Transparent Organic LED iSmart Display will provide a view outside, while serving as an interactive information source for passengers. Ideal for underground metros when most of the time there is nothing to see through the window.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.

KEY FEATURES

Smart Integration

The technology is flexible enough to apply to windows, entry doors or other glass elements in a transit railway environment.

Interactive

The technology features touch-screen functionality and integrated speakers to play sound.

Easy Maintainability

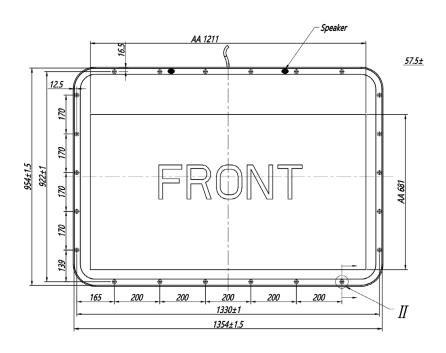
And lower repair cost for the customers thanks to a detachable design.



ConceptUnder DevelopmentAvailable

PRODUCT SPECIFICATION

Size	55" - 1221 mm (h) x 699 mm (v)	
Resolution	Full HD	
Brightness	150cd/m² (Average Picture Level 100%), 400 cd/m² (APL 25 %)	
Color	1 Billon colors	
Transparency	40%	
Power consumption	150W - 350W max	



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FULL COLOR LED DISPLAY

Opening up new dimensions

The fine pitch of Wabtec's Full Color LED display is the perfect companion for rich travel information outdoors in access doors, side of cars, behind windows, front of trains, or even indoor. Its remarkable vividness with color accuracy provides impressive images, animations and videos in all light conditions.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.

KEY FEATURES

Custom LED Construction

Thanks to our in-house assembling process, we can deliver full color LED Display which can be perfectly integrated in all applications.

Great Readability

Of reach content at any distance due to the fine pitch and the high-resolution.

Brightness Guaranteed for 15 Years

Thanks to unique intelligent luminosity management, full color LED display has a constant luminosity and a much longer life.



Concept **Under Development** Available

PRODUCT SPECIFICATION

LED-PANEL

SMD-LED RGB Technology Visible area On demand Up to HD Resolution Minimal pixel pitch 1.5 mm 16.7 million Display color 2000 cd/m² Brightness Contrast 1000 000:1 LED lifetime >15 years

CONTROLLER

LINUX Operating system

Ethernet network 100MBit/s

Protocols VDV301, ITxPT, HTML, MQTT, SNMP, WebRTC, RTSP, PDI,

TrainIT, TRDP (IEC61375-2-3), CIP, IPTCOM...

OPERATION

EN 50155 OT3, -25 °C to +70 °C Temperature range in operation

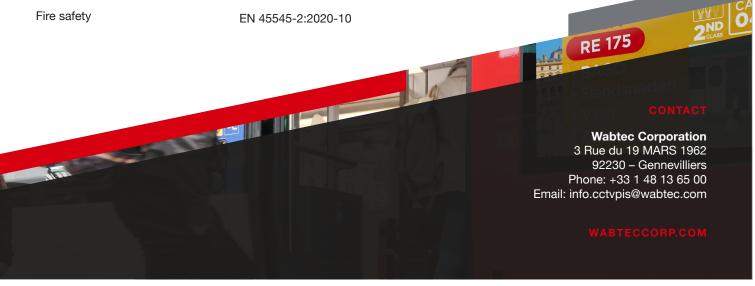
Power supply 110 V DC, 72 V DC, 24 V DC ...

STANDARDS

Railway applications EN 50155:2017

EMS EN 50121-3-2:2015

Fire safety EN 45545-2:2020-10





Color E-Ink Display reinvents paper signage in transportation by bringing the power of real-time updates to passengers and increasing sustainability.

iSmart Display portfolio provides aesthetic design and high visual rendering through lean design, immersive experience, seamless integration and smart technology.



Ultra-low Power Consumption

The E-ink technology consumes only when changing the image.

High Resolution

Its 150 DPI resolution is perfectly adapted to replace posters.

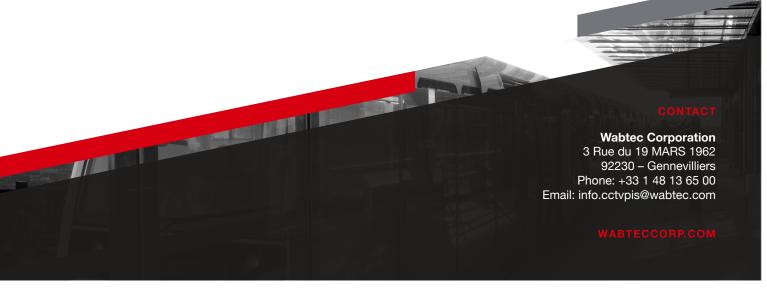
Cable Free for an Easy Installation

On existing trains thanks to a flat design that includes all components (controller, wireless communication, and power supply).

Concept	Under Development	Available
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PRODUCT SPECIFICATION

Screen size	25.3 Inch
Display resolution	3200 (h) x 1800 (v) pixels
Active area	560 mm (h) x 315 mm (v)
Pixel pitch	0.175 mm (h) x 0.175 mm (v)





VIDEO PASSENGER CALL UNIT

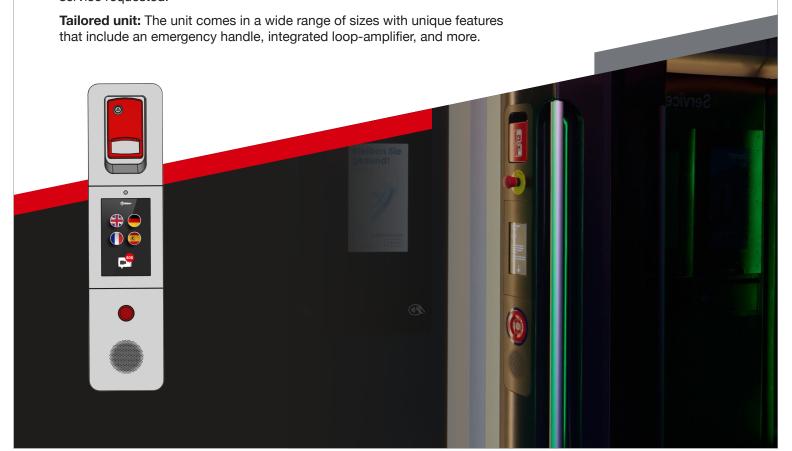
The highest grade of automation without on-board train personnel requires new signaling systems and cutting-edge passenger information solutions. Wabtec's Video Passenger Call Unit addresses this need with real-time video feeds to ground staff.

Wabtec's Passenger Call Unit portfolio provides smart custom mechanical aesthetic designs and seamless integration.

UNIQUE FEATURES

Highest level of remote human assistance: Video and audio bidirectional connection for any application of autonomous trains.

Customizable user interface: The touch screen can provide several call buttons depending on the language of the passenger or the service requested.



Concept

Under Development

Available

PRODUCT SPECIFICATION

Audio	
Microphone frequency response	200 Hz -14 kHz at -10 dB
Loudspeaker frequency response	300 Hz to 4 kHz at -10 dB
Communication mode	Voice over IP: Full duplex with echo canceling Optional: Analog fallback through UIC lines
Activation	Push button or emergency alarm handle
Video	
Display	Touchscreen 10" LCD TFT – 1280 x 800 px
Camera	Full HD – H264
Controller	
Operating system	LINUX
Ethernet network	100 MBit/s
Protocols	SIP/RTP, HTML, MQTT, SNMP, WebRTC, RTSP
Housing	
Enclosure material	Aluminum
Protection class acc. EN 60529	IP54 front face, IP20 rear
Weight	9 kg
Operation	
Temperature range in operation	EN 50155 OT3, -25 °C to +70 °C
Power supply	110 V DC, 72 V DC, 24 V DC
Standards	
Passenger alarm	Optional TSI/PMR compliant layout according to EN16334 or RTE 40100
Railway applications	EN 50155
EMC	EN 50121-3-2
Fire safety	EN 45545-2

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