

USER MANUAL

ECO-Line series



**ECO-Line Monitors with 109.2 cm (43")
and 139.7 cm (55")**

FORTEC
INTEGRATED



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1. General specification

Scope of Document

This user manual is valid for ECO-Line monitors by screen size of 109.2 cm (43") and 139.7 cm (55").

Important note: This user manual is complemented by other additional documents. Please note the information on this.

This document and all other referenced documents can be found at web site: www.distec.de/en.

ECO-Line variants:

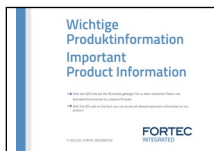
Monitors 43" / 55" / 86" with integrated controller, 1x RS232, 1x USB3.0, 1x USB2.0, 1x RJ45, 1x Audio out, 1x SPDIF, 2x HDMI, 1x HDMI out, 1x USB-C.

2. Scope of delivery

When unpacking the monitor, please check if the following accessories are included in the shipment:



Note: Pictures can differ from actually supplied products.



Product information



Power cable



HDMI cable



remote control incl. batteries

3. General Safety Regulations

Safety information

Please read this safety information carefully for your personal safety and for the prevention of property damage.

In case of a malfunction, immediately disconnect the power plug and contact your dealer or the next Distec GmbH service centre. A malfunction is also considered if the housing, a control element or cable is damaged or if liquids or other objects penetrate the monitor.

Please read the safety information carefully before installing the device. If you have any doubts about whether the device may be used in a particular environment, please contact our service partner.

Repairs

Repairs may only be carried out by authorized technical personnel. Unauthorized access or improper repairs might cause serious property damage or cause danger to the user. In addition to that, any legitimate warranty claim expires.

Electrical connection

Disconnect the monitor from socket before executing any work. Do not touch or connect data cables or power cables during thunderstorms.

System start-up

Before the system start-up let the monitor adjust to the room temperature. Do not expose the device to direct heat sources. In case of condensation, please wait a minimum of 12 hours before switching on the monitor. The monitor shall only be installed and used according to this documentation data sheets. Only qualified personnel may perform the initial installation and system setup.

Qualified personnel

Qualified personnel, in terms of the safety information of this documentation, are persons who are qualified to activate, ground and label devices, systems and circuits according to the safety standards.

Operation

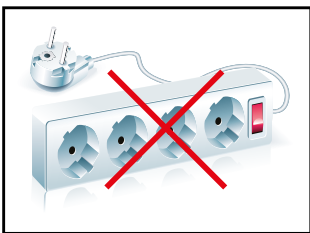
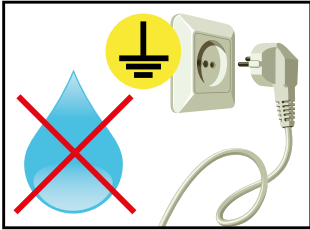
For a proper and safe utilization of the product, adequate transportation, storage, installation, assembly, careful handling and maintenance are essential. The device is only certified for in-door operation. Extreme ambient conditions shall be avoided and the monitor shall be protected from dust, humidity and heat. Do not expose the monitor to direct sunlight.

Transport

Unpack the monitor at the place of installation. Use only original packaging for transportation. Please observe these rules for any later transport.

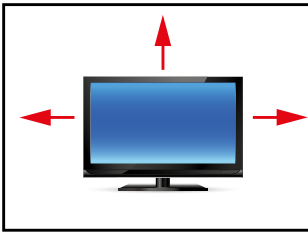
Condensation

Avoid condensation during transport at low temperatures or at extreme fluctuations of temperature.

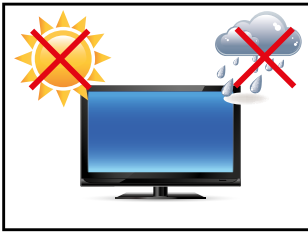


Safety guidelines for the handling of LCD monitors

- If the device is not used for a long period of time, unplug the power cable.
- Do not unplug the power cable while the device is powered on, except for emergencies.
- To unplug the device without problems, sockets have to be easily accessible.
- Ensure that the power cable does not get pinched or kinked.
- Do not place heavy objects on the power cable.
- Do not use damaged or loose sockets to plug in the device.
- Plug the device in earthed sockets only.
- Operate the device with the power cables included in the delivery packet only.
- Use undamaged power cables only.
- When plugging in and out, do not touch the power cable with wet hands.
- Ensure that the power cable is plugged in the socket safely and correctly.
- Use for devices with external power supply only the supplied original power supply, or an equivalent Low Power Source (LPS).
- Do not use extension block to plug several devices into a single socket.
- According to the size, devices may be difficult to handle and very heavy. Ensure that at least two people lift and carry the device.
- Put down the device slowly and carefully to avoid damaging the LCD screen. Ensure that the device stands stable.
- Keep packaging away from children. Danger of suffocation!
- Use our specified and professionally mounted wall mounting only.
- Do not put objects onto the device.
- Do not place candles, heaters or humidifier near the device.
- Keep the device away from fireplaces and flammable materials.



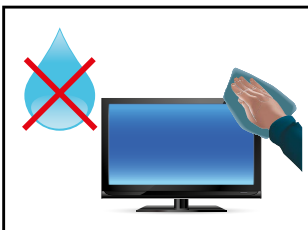
- Ensure sufficient ventilation of the device.
- Keep a minimum distance of at least 10 mm devices to the wall, for devices with integrated PC of at least 40 mm.
- Ensure compliance with the operating temperature.



- Do not install the device in places where it is exposed to environmental impacts such as rain or direct sunlight.
- Do not install the device in places where it is exposed to high humidity, dust or smoke. In case of doubt, please contact your sales partner.



- Please use a soft, moist cloth for cleaning.
- For cleaning the screen, please use only commercially available screen cleaner. Do not spray the cleaner directly to the device but onto a cloth.



- Please clean ventilation slots regularly to ensure a good air circulation.
- Protect your device from water splash.
- When cleaning, please make sure that no liquids get into the device.
- Screens and surfaces can be easily scratched. Therefore, please use the prescribed cloth only.

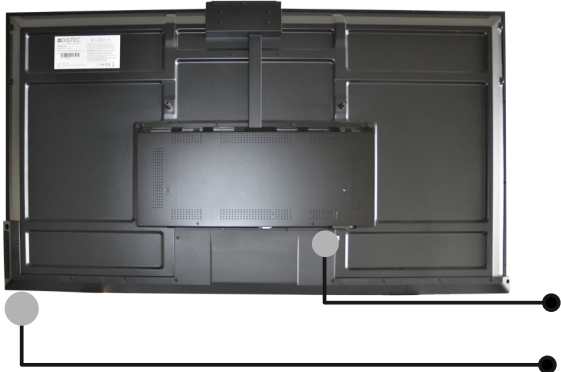


- Attention! High voltage! Never open the device by yourself.
- In case of unusual noises, burnt smell or smoke unplug the power cable.
- Do not insert objects into the device through the ventilation slots.

4. First Installation

Position of connectors and controls

All connectors for power and cables are located at the bottom of the back side of the display.

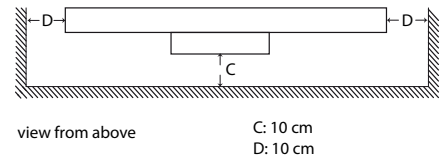
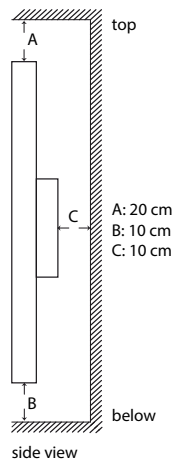


● Connection for power cable and on / off switch
 ● Data cable connectors, OSD menu buttons,

Mounting

Distance to wall:

- devices without integrated PC: min. 10 cm



Mounting with VESA compatible brackets

The Eco-Line monitors are supplied with VESA-compatible mounting holes. The monitor can be mounted in landscape format and portrait format using VESA-compatible wall mounts whose load capacity corresponds to the weight of the monitor.

The operating position of the device is perpendicular (90 degrees to the floor). Pay attention to the permissible tilt angle for wall mounting. The device can be operated both in landscape mode and in portrait mode.

VESA standards 43": MIS-F 200 x 200 mm (M6)

VESA standards 55": MIS-F 400 x 200 mm (M6)

Allowed tilt angle for mounting



Attention! All monitors are not allowed to be mounted with a tilt angle of 0°.

Connecting to power

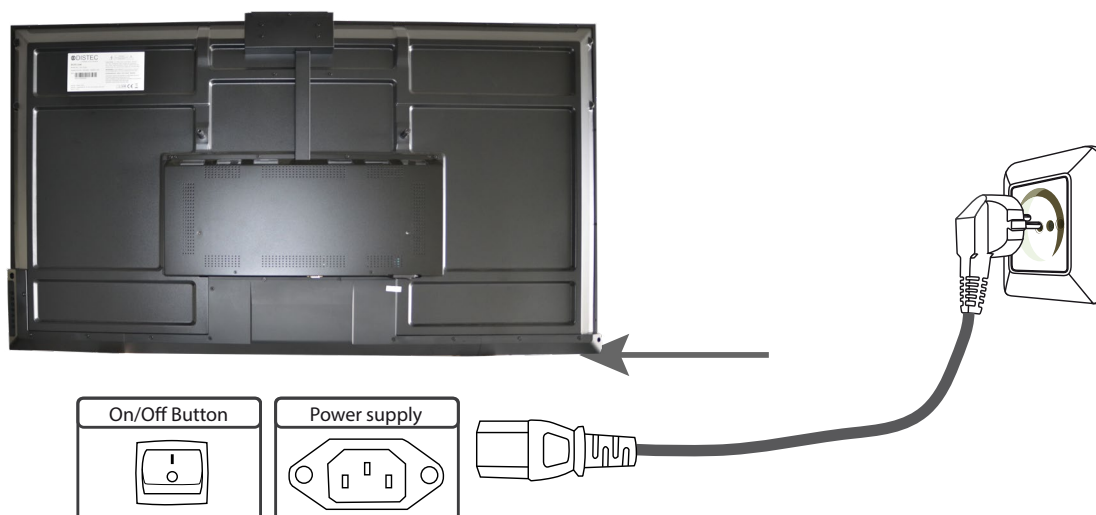
The ECO-Line monitor requires an AC voltage of 100-240 V AC. The standard delivery includes a suitable power cable for connecting the power supply.

Please pay attention that there is a suitable socket near the device, as a disconnecting device.



Note: Install all data cables to external devices before connecting the display to power.

- Switch the on/of switch in position off.
- Connect the power cable to the display.
- Connect the power cable to a power socket.
- Switch the display on .

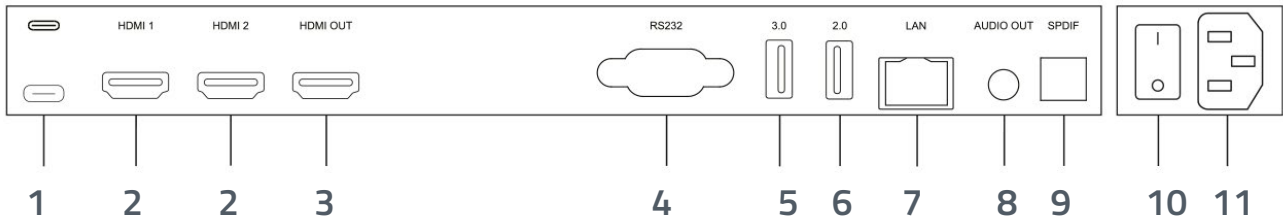


Infrared sensor

The IR sensor is located in the lower area on the backside of the monitor.

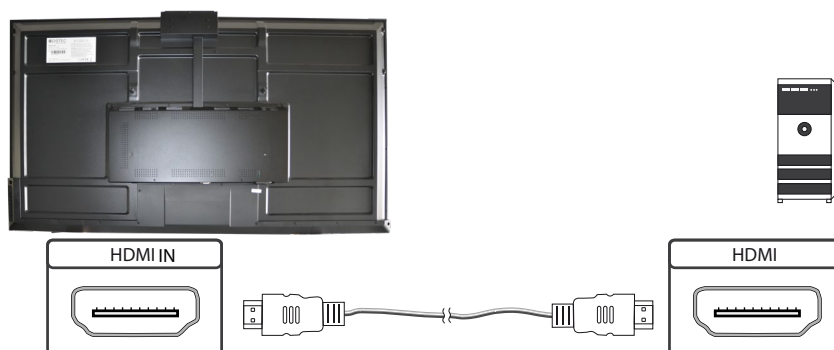
5. ECO-Line monitor controller

ECO-Line monitors have the following connections and controls:

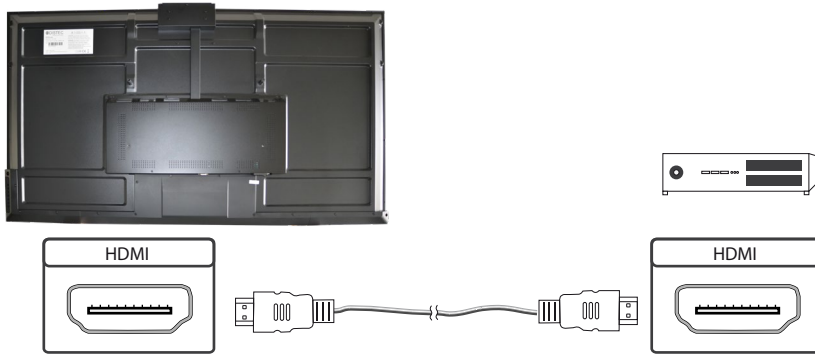


No.	Description	Function
1	USB C	Supports charging, data transfer, serves as an extension for audio and video output interface. Note: The maximum rated power of the USB Type-C connector of this product is 65W. When using this port to charge electronic devices, do not allow the charging power of the electronic device must not exceed the rated power of this port. If the charging power of the electronic device exceeds the rated charging power of this power of this port, please do not use this port for charging directly.
2	HDMI IN	High-Definition-Multimedia Interface signal input, connect with devices with HDMI output Interface (PC) with HDMI output, set top box or other video device.
3	HDMI OUT	High-Definition-Multimedia Interface signal input, connect with devices with HDMI output Interface (PC) with HDMI output, set top box or other video device. (not supported in Android channel)
4	RS 232	Serial interface to be used for data transmission between devices
5	USB 3.0	Connecting USB devices such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc
6	USB 2.0	Connecting USB devices such as mobile hard disk, U disk, USB keyboard and mouse, USB drives, etc
7	LAN	Connection to internal and external networks
8	AUDIO OUT	Audio output to external speaker
9	SPDIF	Transmission of optical signals in multi-channel sound
10	AC Switch	To turn on or shut down AC power supply „I“ means on, „O“ means off
11	AC IN	Power supply, AC input AC

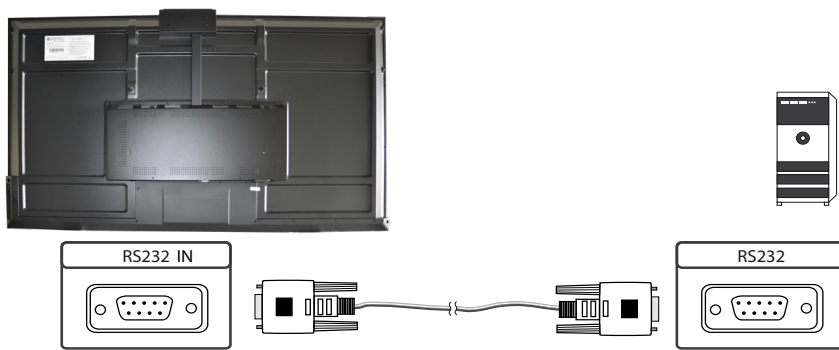
Connect to a PC or an external device with HDMI cable



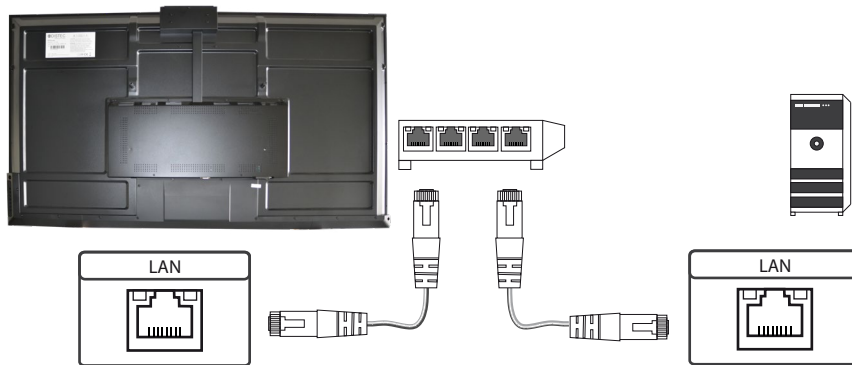
Connect to a projector with HDMI cable



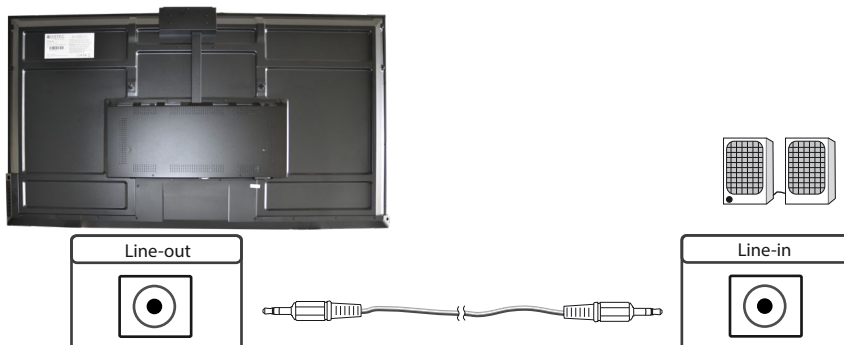
Connect to a PC or an external device via RS232



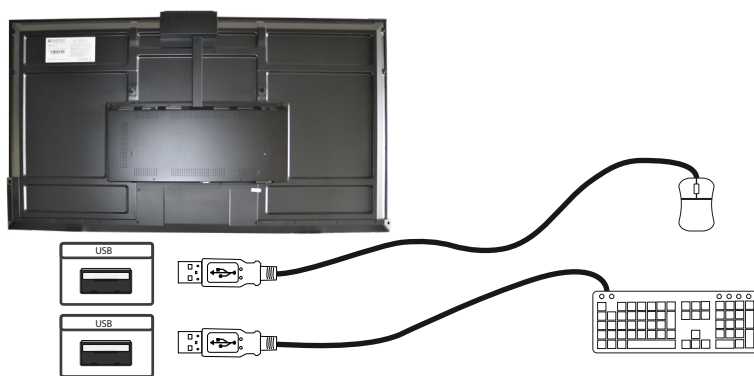
Connect to a network with a patch cable



Connect to active speakers








Connect to keyboard and mouse via USB cable



OSD controls

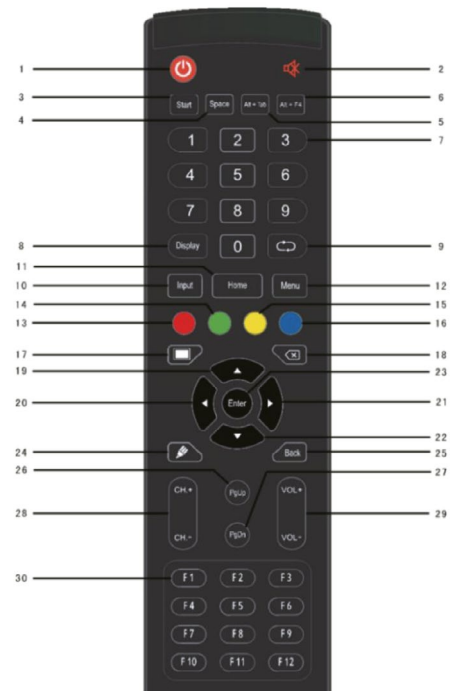


Navigation in the OSD-menu

Nr.	Description	Function
1	Power indicator	Indicates the status of the power supply .
2		tap to turn on Energy saving: Press for at least 2 seconds to switch to stand-by mode
3	Menu	Settings pop-up menu
4	Input	Channel settings popup
5		Left scroll button
6		Right scroll button
7		Down scroll button
8		Up scroll button

Remote control instructions

Nr.	Beschreibung	Funktion
1		Power on/ off
2		Enter to exit mute mode
3	Start	Windows key of PCs
4	Space	Space key of PCs
5	Alt+Tab	Alt+Tab key of PCs
6	Alt+F4	Alt+F4 key of PCs
7	Numeric keys	numeric input
8	Display	Display channel information
9		not available
10	Input	Pop-up setting menu
11	Home	Return to Android main screen
12	Menu	Pop-up menu
13	Rot	Enable or disable keys and touch
14	Grün	Enable or diable keys
15	Gelb	Enable or disable touch
16	Blau	Pop out or close the screen freezing tools
17		Turn off or turn on the screen backlight
18		PCs backspace
19		Scroll up
20		Scroll left
21		Scroll right
22		Scroll down
23	Enter	Confirm selection state
24		Quick start writing software
25	Back	Return to the last operating interfacel
26	PgUp	Page up
27	PgDn	Page down
28	Ch.+/ CH.-	not available
29	VOL+/ VOL-	Increase/ reduce the volume
30	F1-F12	PC's F1 - F12 function keys



NOTE: All computer-related function keys are without an integrated computer not available.

Insert batteries

- 1) Open the back cover of the battery component on the back of the remote control.
- 2) Insert a AAA battery according to the corresponding electrode, make sure that the positive and negative poles of the battery are correct („+“ to „+“, „-“ to „-“), please do not old and mix new batteries.
- 3) After inserting the battery, close the back cover of the battery compartment and attach the clip at the bottom.

Range of the remote control

The remote control can work normally within a range of 8 meters, 30 degrees left and right of the remote control receiver; To protect the environment, please dispose of used batteries in a recycling box.

6. Maintenance

Systems with active cooling require cleaning of ventilation slots every 6 months. Systems with passive cooling must be cleaned every 12 months.

7. Warranty / Service

Warranty

FORTEC Integrated grants a manufacturer's warranty of two years from the date of delivery.

The rendering of warranty claims shall neither extend nor restart the warranty period.

During the warranty period, FORTEC Integrated shall repair product faults based on material or production defects. The warranty service is executed at FORTEC Integrated's discretion through repair, replacement of defective parts or by exchanging a product for a product of equal quality without charging the customer for material or labor.

Warranty claims are only accepted, if FORTEC Integrated receives notification of a defective product within the warranty period and the product is presented to the FORTEC Integrated Service Centre together with all information as specified in the RMA process.

Warranty Exclusions and Limitations

This warranty does not apply to any defect for which FORTEC Integrated is not responsible and which includes, but is not limited to the following:

- Unauthorized opening or disassembling of the product
- Faulty maintenance by non-observation of maintenance instructions
- Inappropriate storage or cleaning of the product
- Unauthorized modification of the product
- Incorrect use or misuse
- Non-observation of operating and installation instructions
- Permanent display of fixed images (causing image retention or image sticking)
- Operating the product in conditions which exceed the limitations of the specification
- Use of inappropriate boxes, packaging or modes of shipment
- Force majeure like fire, acts of war, acts of violence, chemical or biological impacts, lightning strikes, over voltage or similar events
- Fault resulting from the use of software which was not originally supplied with the product or which is incorrectly installed
- Normal wear and tear and wearing parts (i.e. LCD panel)

Mechanical damages like scratches, pressure or break points are excluded from this warranty.

This warranty does not include accessory parts which are not integral part of the product (as boxes, batteries).

Pixel errors only constitute a fault under the terms of this warranty if they deviate from the product specification (i.e. ISO 9241-307 pixel failure class II).

Display Quality - Prevention of after image burn in effects

After image burn-in means that an image or part of an image (i.e. logo) remains visible on the screen even if the image on the screen is changed. This should not occur if the LCD panel is operated in normal conditions with changing content. To prevent burn-in effects please follow the following guidelines.

- Power-off the monitor for 2 hours after using it for 18 hours.
- Use the power scheme and power management of the PC.
- Use plain-colored screen savers.
- Avoid patterns with a strong difference in brightness and contrast.
- Avoid gray colors.
- Change images and logos regularly. Show animated pictures for 60 seconds after 4 hours of operation.
- The best way to protect your display is to switch the monitor off when not in use or to use screen savers.

Non-observance of these guidelines may have effects on warranty.

Warranty Processing

FORTEC Integrated RMA process. In order to avoid unnecessary charges, it is important to adhere to the RMA regulations.

Products must be appropriately and professionally packed for a safe return to the FORTEC Integrated Service Centre. Products with panel sizes equal or larger than 81 cm (32") must be shipped on pallets in upright position.

FORTEC Integrated does not assume liability for any customer data stored on products which are returned to FORTEC Integrated.

Limitations of Liability and Benefits

With this warranty declaration, FORTEC Integrated exclusively warrants that the product is free of material and manufacturing faults.

FORTEC Integrated does not issue any other warranty or similar statements other than this declaration.

This warranty does not impair or affect a buyer's statutory claim against the seller due to material damage. Such claims can be asserted instead of the warranty agreed to here at the buyer's discretion.

Mandatory legal rights and mandatory claims under the German product liability remain unaffected.

Applicable Law and Place of Jurisdiction

The laws of the Federal Republic of Germany apply.

Place of jurisdiction is Munich.

Service addresses

Germany

Distec GmbH - Werk Kindel
Am Künkelhof 4
99820 Hørselberg-Hainich
☎ +49 36920 7162-0
✉ support@distec.de

Great Britain

Display Technology Ltd.
Osprey House, 1 Sprey Court
Hichingbrooke Business Park
Huntingdon, Cambridgeshire
PE29 6FN
Tel. +44 1480 411600
Mail: info@displaytechnology.co.uk

USA

Apollo Corp.
87 Raynor Avenue, Unit 1
Ronkonkoma NY 11779
☎ +1 631 580-4360
✉ info@apollodisplays.com

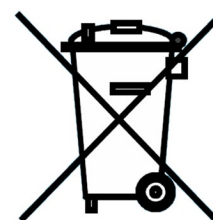
Please go to the following web address for further information about our RMA regulations and RMA forms:

[Http://www.distec.de/en/service](http://www.distec.de/en/service)

8. Disposal

Disposal of old devices

If the acquired Distec product is to be disposed of, must be implemented into national law the Directive 2012/19/EU.



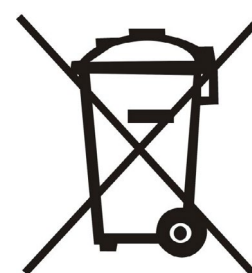
Disposal of batteries

Applicable in all countries of the EU and in countries with separate battery collection systems.

The Batteries in this product should not be disposed with other household waste. The chemical symbol Pb, Cd or Hg indicate that the battery contains lead, cadmium or mercury above the reference level in EC directive 2019/19/EG.

Batteries which are not disposed correctly can cause harm environment and health.

Our environment is close to our hearts. Please help us to protect our environment and recycle empty batteries with the free battery collection system.



9. Declaration of Conformity

Declaration

Hereby the Distec GmbH declared that the unit EU is in compliance with the essential requirements and other relevant provisions of Directives 2014/30/EU and 2014/35/EU and 2011/65/EU.

The CE declaration of conformity can be found in English at the website of Distec: <https://www.distec.de/en/service/downloads/monitor-downloads/>.

FCC-Declaration of conformity

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian Department of Communications Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Observation des normes-Class A - Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

FCC Information:

- Changes or modifications not expressly approved by Distec GmbH could void the user's authority to operate the equipment.
- Use the attached specified cables with the POS-Line monitor so as not to interfere with radio and television reception.
- Please use the supplied power cord or equivalent to ensure FCC compliance.