



Switching Presentation Scaler with Table Grommet Kit

User Manual

English



No. 38282

lindy.com



Tested to comply with
FCC Standards
For Home and Office Use!



Introduction

Thank you for purchasing the Lindy Switching Presentation Scaler with Table Grommet Kit. This product has been designed to provide trouble free, reliable operation. It benefits from both a LINDY 2 year warranty and free lifetime technical support. To ensure correct use, please read this manual carefully and retain it for future reference.

This switching scaler provides a professional solution for switching between HDMI, DisplayPort and VGA source devices and outputting to a single HDMI projector or display, in the optimum resolution available by utilising an in-built scaling function to ensure the best quality viewing experience possible. The included table grommets allow for simple and efficient switching of each source device, perfect for use in meeting rooms or collaborative working environments.

Package Contents

- Switching Presentation Scaler
- 12VDC 2A Multi Country Power Supply (UK, EU, US & AUS Adapters)
- 2 x Mounting Brackets with 4 x Screws
- 4 x Rubber Feet
- 10 x 3-pin Phoenix Connectors
- 1 x IR Transmitter cable
- 2 x HDMI Table Grommets
- 1 x DisplayPort Table Grommet
- 1 x VGA Table Grommet
- 4 x Mounting Kit for Table Grommets
- Quick Installation Guide

Features

- Supports VGA analogue audio embedding to HDMI
 - HDCP 1.4 Pass-through, HDCP 2.2 inputs will be converted to 1.4
 - Audio extraction to stereo terminal blocks
 - Supports CEC, IR, push button and RS232 control
 - IR learning function to control the display via set push buttons
 - Includes 2 x HDMI, DisplayPort and VGA table grommets with push button switching and blank screen option
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Specification

- Input: 2 x HDMI Type A (Female), DisplayPort (Female), VGA (Female), 3.5mm (Female)
- Output: HDMI Type A (Female)
- Control Ports: 3.5mm (Female), RS232 (3-pin), Table Grommet Kit (2 x HDMI Type A, 1 x DisplayPort, 1 x VGA)
- Supported Input Resolutions: Up to 3840x2160@60Hz 4:4:4 8bit (HDMI and DisplayPort), Up to 1920x1080@60Hz (VGA)
- Supported Output Resolutions: 3840x2160@30Hz RGB 8bit, 1920x1080@60Hz RGB 8bit, 1080x720@60Hz RGB 8bit
- Supported Bandwidth: 10.2Gbps
- Main Unit Dimensions: 230x23.6x100mm (9.06x0.93x3.94in)
- Table Grommet Dimensions: 76x28.5x76mm (2.99x1.12x2.99in)
- Operating Temperature: -10°C - 40°C (14°F - 104°F)
- Storage Temperature: -15°C - 55°C (5°F - 131°F)
- Humidity: 10-90% RH (non-condensing)
- Power Consumption: 10W

Installation

Please ensure all component and accessories are included before installation.

If mounting the main unit to a desk or surface, please attach the included mounting ears with the screws supplied.

If mounting the main unit on a shelf, please apply the supplied rubber feet to the bottom of the unit.

Please ensure all devices are switched off before connection.

Connect all source video and audio devices to the HDMI, DisplayPort, VGA and Audio In input port using the required cables

Connect the display to the output port using HDMI cable

Connect any separate audio devices to the 3-pin terminal blocks

If using RS232, IR or table grommets, please connect to the required 3-pin terminal block using the supplied phoenix connectors

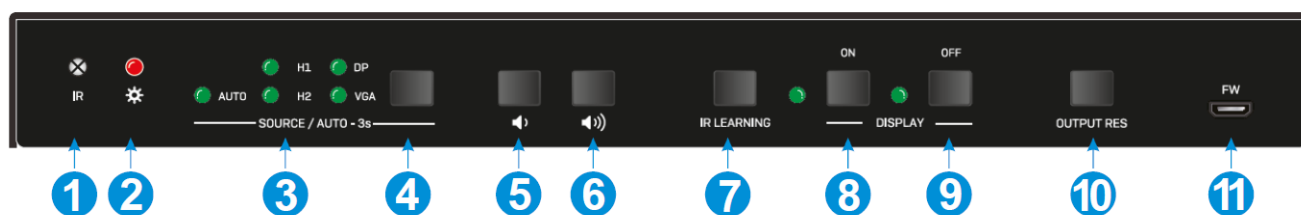
If using the table grommets, once fixed into place on a desk or table, please connect the corresponding 3-pin connector to the 3-pin connection on the rear of the grommet. Each grommet is labelled GR1-4 on the rear of the main unit. Connect the source device using required cable to the female port on the front of the table grommet.

For the terminal connections you may use multi core control cable, CAT 5/6 or any passive copper cable connection. This is a simple switch mechanism so special cable is not required.

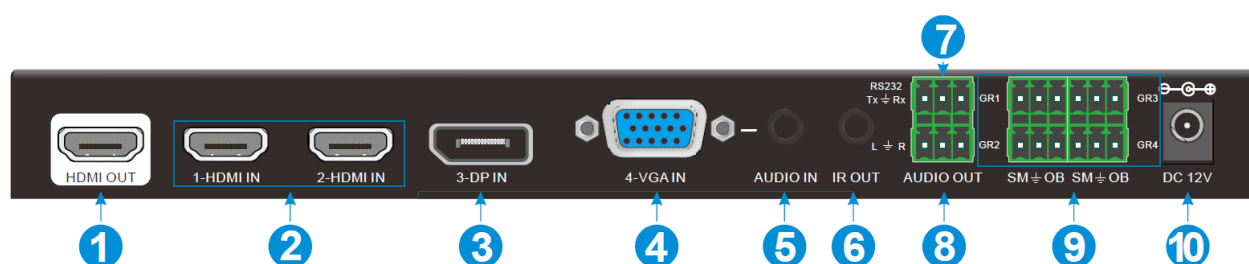
Once all connections are made, please connect the screw type power supply.

Once the power supply is connected, switch on devices in the following order: Display, Switching Presentation Scaler, Source Devices. Please allow a few moments for the devices to handshake and for the signals to appear.

Unit Operation



No.	Name	Description
1	In-built IR Receiver	Receive the IR signal from an IR Remote (not included)
2	Power LED	Turns red when powered on
3	Signal LEDs	Auto: Auto Sensing is active H1&H2: Input HDMI 1 and/or 2 is active DP: Input DisplayPort is active VGA: Input VGA is active
4	Auto Sensing Switch	Press for 3 seconds to enter auto sense switching mode Press again to exit
5	Volume Down	Press to decrease output volume of the unit and display
6	Volume Up	Press to increase output volume of unit and display
7	IR Learning	Press to enter IR Learning mode
8	Display On and Activity LED	Press to turn on display signal (This can be customized with IR and RS232 commands)
9	Display Off and Activity LED	Press to turn off display signal (This can be customized with IR and RS232 commands)
10	Output Res	Press to enter the on screen display menu to select the output resolution
11	Firmware	USB Micro-B Female port for updating firmware



No.	Name	Description
1	HDMI Out	HDMI Output Port, Connect to display
2	HDMI In and HDMI In	HDMI Input Port, Connect to HDMI source devices
3	DP In	DisplayPort Input Port, Connect to DP source device
4	VGA In	VGA Input Port, Connect to VGA source device
5	Audio In	VGA 3.5mm Audio input
6	IR Out	Connect with the IR Emitter to control the display via IR Remote
7	RS232	Connect to a control device such as PC to control the unit Connect the display to control it via the front panel buttons
8	Audio Out	Audio Output Port, Connect to speakers
9	GR1, GR2, GR3 & GR4	Connect with the included table grommets to control source device switching and the display
10	DC 12V	Connect the included adapter

Unit Push Button Control

Switching the video signal

Manual Switching

Press the SOURCE/AUTO-3s button to select the HDMI, DisplayPort or VGA source device

Auto switching

Hold the SOURCE/AUTO-3s button for at least 3 seconds. This will activate the auto sense switching mode to automatically switch to the active source device. The green AUTO LED will illuminate once the mode is activated. Press SOURCE/AUTO-3s again to select the next source and exit auto sense switching mode.

This mode follows these rules:

Connecting a New Input

When a new source device is connected, this will automatically be switched to the main input signal.

Rebooting the Unit

The unit will save the last configuration before losing power. The switch will automatically switch to the last mode used. If the previously used source device is no longer connected, the unit will switch to the next available connected source device.

Removing the source device signal

If the signal is removed the unit will detect the next available signal in order of HDMI, DisplayPort, VGA and switch to the active source device

Output Resolution Selection

To select the resolution using the unit, press the Output Res button to show the following resolution OSD on the display

Resolution
3840 × 2160
1920 × 1080
1280 × 720

To move up and down through each resolution press the Output Res button again

To confirm the selected output resolution, press, hold then release the Output Res for at least two seconds

To reset the resolution, press, hold then release the Output Res button for at least 5 seconds. This will reset the output resolution to the default of 720p.

Display Control

The On and OFF buttons of the unit can be used to turn the display on or off, however can also be customized by sending RS232 commands or applying the IR learning function.

IR Learning

Press the IR Learning button to activate IR Learning mode, the On and Off LEDs will illuminate.

Using the unit's display On/OFF button, press any button and the LED will begin to flash.

Point the displays IR remote at the unit's IR receiver and press the Power On button of the remote. The On LED on the unit will go dark.

Repeat the above steps to set the Off IR function

The unit's On or Off buttons will now turn the display on or off.

Sending RS232 Commands

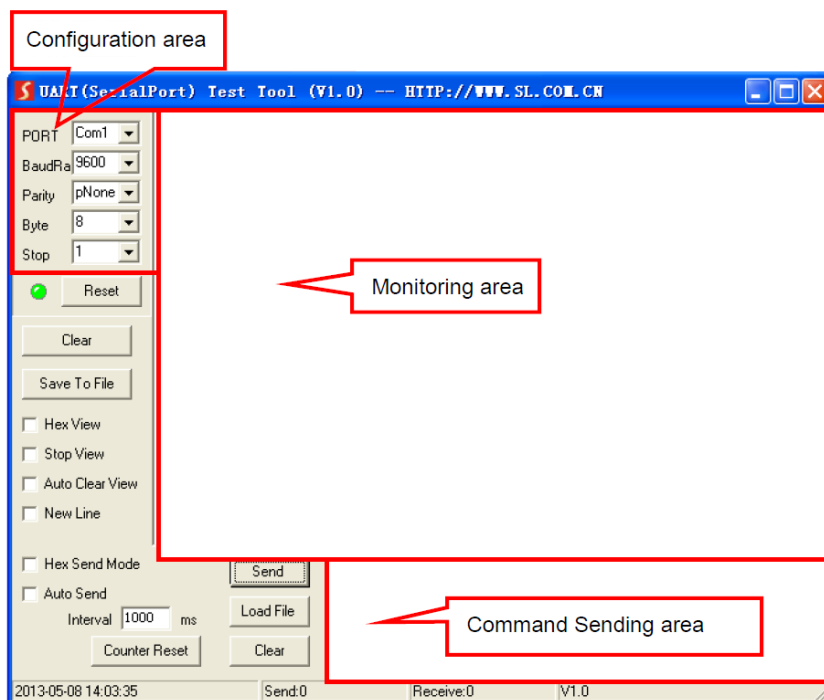
Connect a PC to the RS232 port

Install the RS232 control software on to the PC. The suggested software for use is CommWatch.exe



Once installed and all connections are made, double-click the software icon to run.

The control software's interface is shown below



Please set the parameters of the Command number, Baud rate, data bit, stop and the parity bit correctly. Commands can now be sent in the Command Sending Area

RS232 Command List

Communication protocol: RS232 Communication Protocol

Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none

System Configuration

Command	Function	Feedback
SFUD<CR><LF>	Software upgrading	Software Update
GET VER<CR><LF>	Check the software version	Version Vx.x.x
FRST<CR><LF>	Restore factory default	Factory Reset
WAKE<CR><LF>	Wake up the system	Wake Up
STBY<CR><LF>	Turn the system to standby mode	Go To Standby
GET STA<CR><LF>	Get the system status	Input:VGA Resolution: 1920x1080 Manual Switching Source Volume: 60 EDID: Initial HDCP: ON

Signal Switching

Command	Function	Feedback
SWIN H1<CR><LF>	Switch to HDMI input	Switch to HDMI
SWIN H2<CR><LF>	Switch to HDMI 2 input	Switch to HDMI 2
SWIN DP<CR><LF>	Switch to DisplayPort input	Switch to DP
SWIN VG<CR><LF>	Switch to VGA input	Switch to VGA
AUTO 01<CR><LF>	Enable auto switching	Auto Switching
AUTO 00<CR><LF>	Disable auto switching	Manual Switching

Audio Setting

Command	Function	Feedback
AUMT S1<CR><LF>	Mute source audio	Audio Mute Source: Enable
AUMT S0<CR><LF>	Unmute source audio	Audio Mute Source: Disable
VOLS AP<CR><LF>	Increase the source volume to xx (xx=0~60)	Source Volume: xx
VOLS AN<CR><LF>	Decrease the source volume to xx (xx=0~60)	Source Volume: xx
VOLS xx<CR><LF>	Set the source volume to xx (xx=0~60)	Source Volume: xx

Output Resolution Selection

Command	Function	Feedback
SRES 01<CR><LF>	Change output resolution to 3840x2160	Resolution: 3840x2160
SRES 02<CR><LF>	Change output resolution to 1920x1080	Resolution: 1920x1080
SRES 03<CR><LF>	Change output resolution to 1280x720	Resolution: 1280x720
VGAA<CR><LF>	Automatic image correction for VGA input	VGA Input Auto

EDID Management

Command	Function	Feedback
EDID DF<CR><LF>	EDID default	EDID: Initial
EDID MN<CR><LF>	Get the EDID data from display	EDID: Manage
EDID US<CR><LF>	Prompts for user-defined EDID file (.bin)	EDID: User

Baud Rate Setting

Command	Function	Feedback
BAUD 115200<CR><LF>	Set RS232 baud rate to 115200	Set Baud rate 115200
BAUD 57600<CR><LF>	Set RS232 baud rate to 57600	Set Baud rate 57600
BAUD 38400<CR><LF>	Set RS232 baud rate to 38400	Set Baud rate 38400
BAUD 19200<CR><LF>	Set RS232 baud rate to 19200	Set Baud rate 19200
BAUD 9600<CR><LF>	Set RS232 baud rate to 9600	Set Baud rate 9600
BAUD 2400<CR><LF>	Set RS232 baud rate to 2400	Set Baud rate 2400
BAUD 4800<CR><LF>	Set RS232 baud rate to 4800	Set Baud rate 4800

For configuring the On and OFF buttons using RS232, please follow the commands below

Configuring the On Button

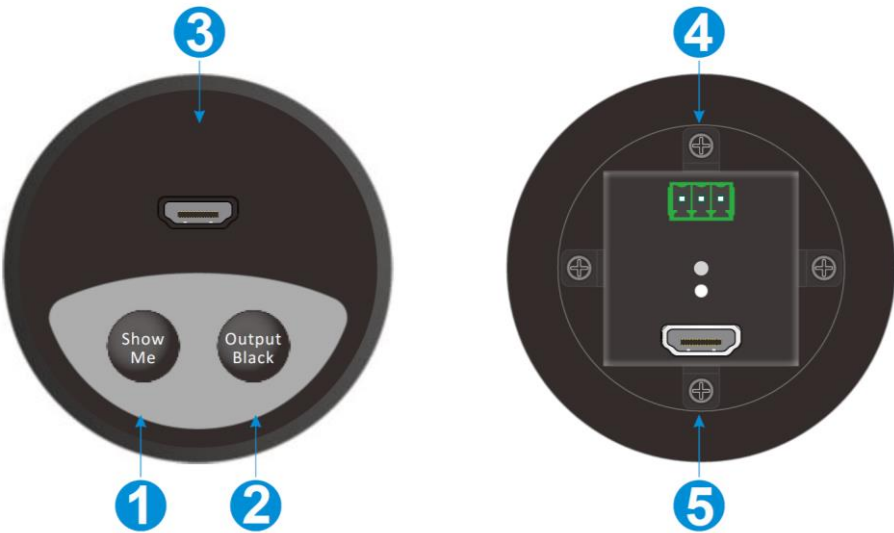
Command Format	Description & Example	Feedback
/-ax:XX XX XX XX	"x" represents the baud rate: x=0(2400)/ 1(4800)/ 2(9600)/ 3(19200)/ 4(38400)/ 5(57600)/ 6(115200). " XX XX XX XX " is display control command (HEX, max 48 byte). For example: /-ax:30 31 32 33	XX XX XX XX (30 31 32 33)
/+ax:XXXXXXXX	"x" represents the baud rate: x=0(2400)/ 1(4800)/ 2(9600)/ 3(19200)/ 4(38400)/ 5(57600)/ 6(115200). " XXXXXXXX " is display control command (ASCII, max 48 byte). /+ax:0123456	XXXXXXXX (0123456)

Configuring the Off Button

Command Format	Description & Example	Feedback
/-Ax:XX XX XX XX	"x" represents the baud rate: x=0(2400)/ 1(4800)/ 2(9600)/ 3(19200)/ 4(38400)/ 5(57600)/ 6(115200). " XX XX XX XX " is display control command (HEX, max 48 byte). For example: /-Ax:30 31 32 33	XX XX XX XX (30 31 32 33)
/+Ax:XXXXXXXX	"x" represents the baud rate: x=0(2400)/ 1(4800)/ 2(9600)/ 3(19200)/ 4(38400)/ 5(57600)/ 6(115200). "XXXXXXXX" is display control command (ASCII, max 48 byte). /+Ax:0123456	XXXXXXXX (0123456)

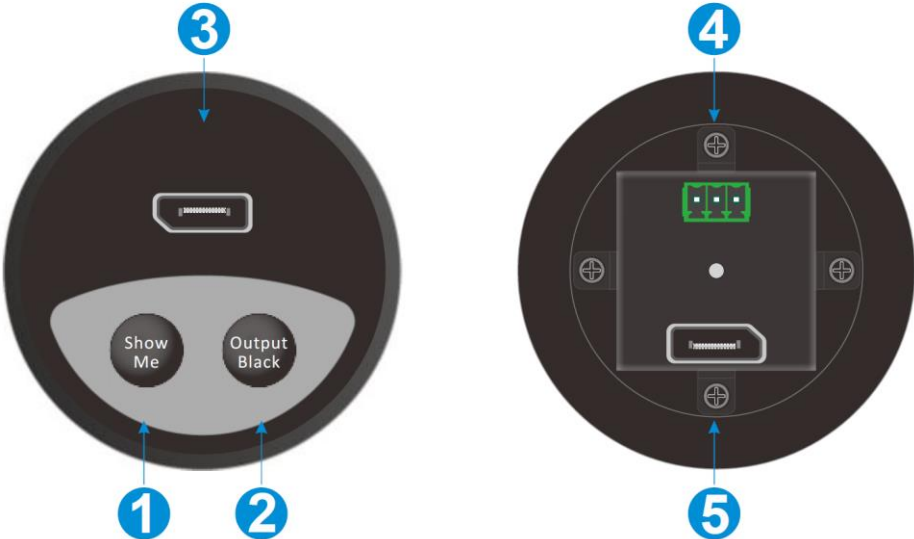
Table Grommet Operation

HDMI Table Grommet



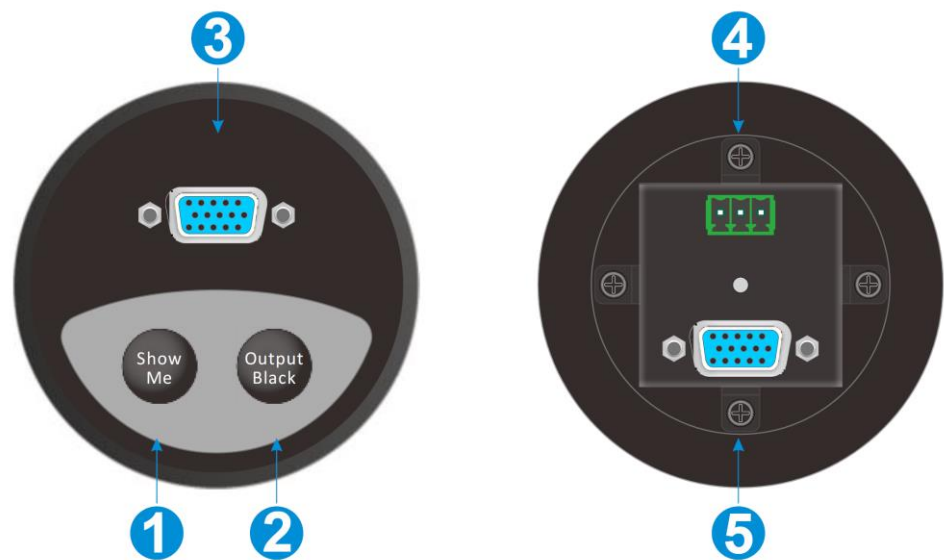
No.	Name	Description
1	Show Me	Press to select HDMI source device
2	Output Black	Press to output a black screen on display
3	HDMI Input	Connect to HDMI source device
4	Control	Connect to GR1 or GR2 port of the unit
5	HDMI Output	Connect to HDMI input port of unit

DisplayPort Table Grommet



No.	Name	Description
1	Show Me	Press to select DisplayPort source device
2	Output Black	Press to output a black screen on display
3	DP Input	Connect to DisplayPort source device
4	Control	Connect the GR3 port of the unit
5	DP Output	Connect to DisplayPort input port of unit

VGA Table Grommet



No.	Name	Description
1	Show Me	Press to select VGA source device
2	Output Black	Press to output a black screen on display
3	VGA Input	Connect to VGA source device
4	Control	Connect to the GR4 port of the unit
5	VGA Output	Connect to VGA input port of unit

CE/FCC Statement

CE Certification

This equipment complies with the requirements relating to Electromagnetic Compatibility Standards. It has been manufactured under the scope of RoHS compliance.

CE Konformitätserklärung

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU für IT-Equipment und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

Diese Geräte wurden unter Berücksichtigung der RoHS Vorgaben hergestellt.

Die formelle Konformitätserklärung können wir Ihnen auf Anforderung zur Verfügung stellen

FCC Certification

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

You are cautioned that changes or modification not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

LINDY Herstellergarantie – Hinweis für Kunden in Deutschland

LINDY gewährt für dieses Produkt über die gesetzliche Regelung in Deutschland hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.

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Recycling Information



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

Europe, United Kingdom

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer allowable to simply throw away electrical and electronic equipment. Instead, these products must enter the recycling process.

Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Rücknahme Elektroschrott und Batterie-Entsorgung

Die Europäische Union hat mit der WEEE Direktive Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne ist verboten! Diese Geräte müssen den Sammel- und Rückgabesystemen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernehmen die Gerätehersteller.

LINDY bietet deutschen Endverbrauchern ein kostenloses Rücknahmesystem an, beachten Sie bitte, dass Batterien und Akkus den Produkten vor der Rückgabe an das Rücknahmesystem entnommen werden müssen und über die Sammel- und Rückgabesysteme für Batterien separat entsorgt werden müssen. Ausführliche Informationen zu diesen Themen finden Sie stets aktuell auf der LINDY Webseite im Fußbereich.

France

En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.

Chaque Etat membre de l' Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d'application correspondant à l'élimination des déchets électriques ou électroniques de votre pays.

Italy

Nel 2006 l'unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate. Ogni stato membro dell' EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.

Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

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