

Neets Control – EasyConnect

Installation Manual



Neets

Foreword

Neets EasyConnect solves one of the most common and frustrating problems encountered in AV presentations. When a guest presenter wants to connect a laptop computer, all too often the proper cables cannot be found, or they have the wrong length, or the connection point is hidden away in a floor pocket or wall panel.

Cables are terminated at both ends for easy disconnection and re-connection, allowing use in podiums that occasionally must be relocated or removed for storage.

The EasyConnect enclosure also incorporates space for seamless integration of Neets Control ECHo or SieRRa II. With integrated control, starting a presentation is quick and frustration-free. Simply plug in the required cables, press the corresponding control buttons, and your presentation is running in a matter of seconds!

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CHANGES - Neets reserve the right to change the specification and functions of this product without any notice.

Questions, AFTER reading this manual, can be addressed to your local dealer or:

Neets
Langballe 4
8700 Horsens
Denmark

by E-Mail: Support@Neets.dk or you may use our contact form at www.neets.dk

Revision list

This document (no: 305-02XX-001) has the following revision changes:

Author: Date	Description	Pages	Rev
TSA: 09-11-2012	First release.	All	1.00
TSA: 12-03-2013	Added DK version	3	2.00
TSA: 17-05-2013	Added version without control system	3,4,7	3.00
JR: 04-03-2014	New layout, added features and NEB version	All	4.00
MH: 07-07-2014	New layout in A5 format	All	5.00
MH: 17-08-2015	Updated design in A4 format	All	6.00
MH: 08-10-2015	Section with "Risk of electric shock" added	4	7.00

Important Safety Instructions

Caution:

Read these instructions:

Read and understand all safety and operating instructions before using the equipment.

Keep these Instructions:

The safety instructions should be kept for future reference.

Heed all Warnings:

Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments:

Do not use tools or attachments that are not recommended, because they may be hazardous

Warning!:

- This equipment should be operated only from the included power supply.
- To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).
- Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.
- Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards. Contact your local Neets reseller or distributor.
- If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.
- Do not use this equipment near water.
- To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture and objects filled with liquids.
- Unplug the product before cleaning. Clean only with a dry cloth and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

FCC Class A Notice:

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. Operation is subject to the following two conditions:

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

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

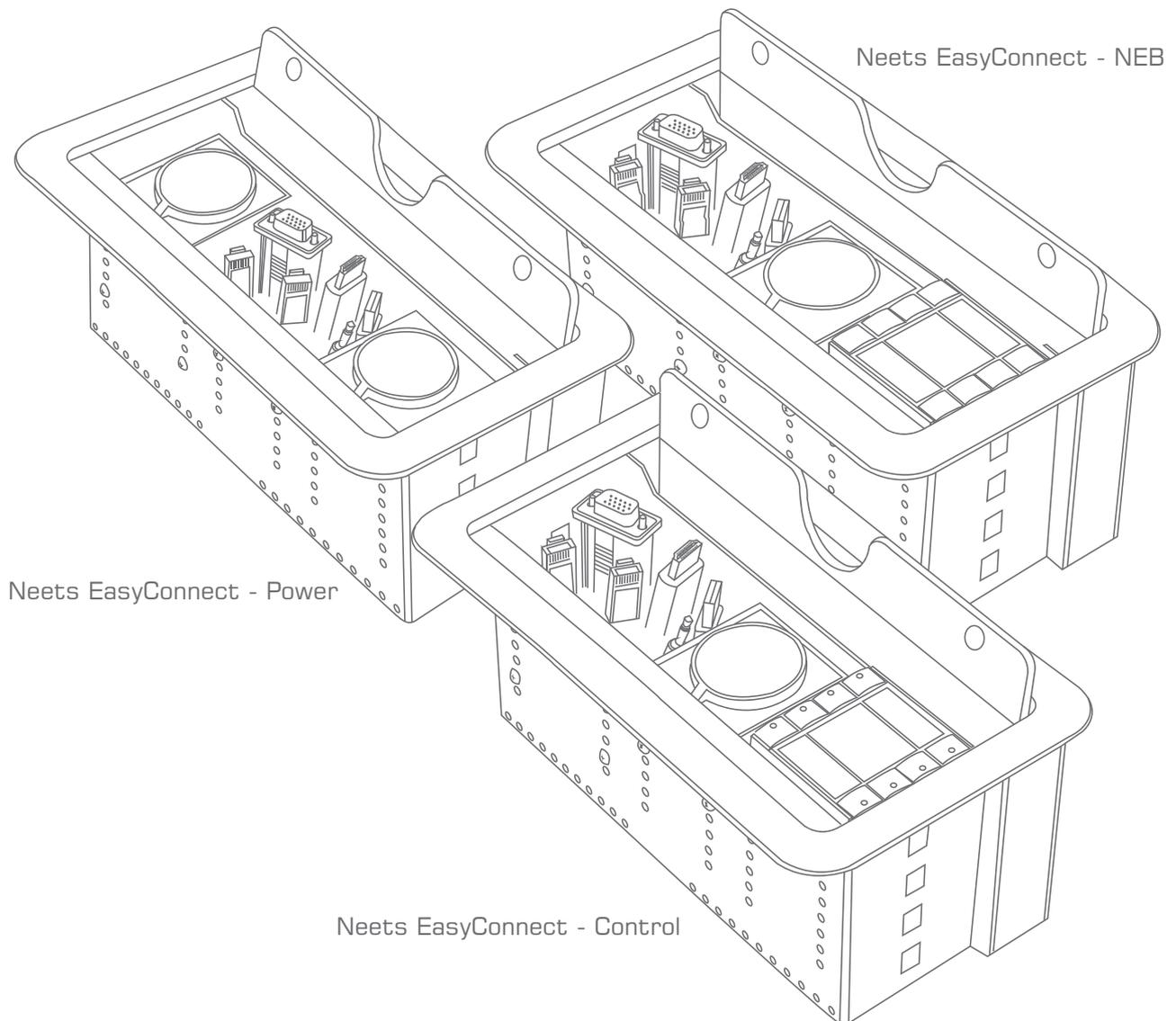


The lightning bolt triangle is used to alert the user to the presence of uninsulated "dangerous voltages" within the unit's chassis that may be of sufficient magnitude to constitute a risk of electric shock to humans.



The exclamation point triangle is used to alert the user to presence of important operating and service instructions in the literature accompanying the product.

Routing and connecting cables:



Caution:
Risk of electric shock
Max power output 10A

- Check with local and state regulations before starting the installation
- Check all parts and equipment before installation

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Description

Neets EasyConnect is a high-quality cable housing box designed for recessed mounting in a table-top, podium or other furniture surface in classrooms, board rooms and conference rooms. It contains six connector cables that pull out smoothly for quick connectivity and then disappear below the box for uncluttered storage. The top cover plate slides into its own recessed slot to hide out of the way when cables are in use.

EasyConnect is constructed from black anodized aluminum for years of reliable service. It includes a built-in AC line outlet (with proper socket connector for country of delivery) for powering an external computer or other device, and is CE certified.

The depth of the connector collar panel is adjustable, allowing optimum depth to suit various connector types and sizes.

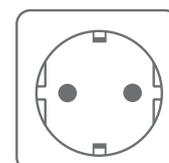
EasyConnect is delivered with the following cables:

1 x HDMI 1 x 3.5mm audio 1 x VGA 2 x Cat-6 RJ45 1 x USB-A

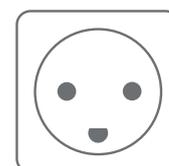
All cables are 1,7 m long with identical terminations at each end.

EasyConnect is available in 15 versions:

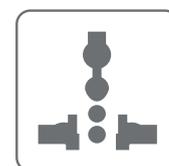
305-0200	Neets EasyConnect - Control EcHo, EU - Antrachite
305-0225	Neets EasyConnect - Control SieRRa II, EU - Antrachite
305-0202	Neets EasyConnect - Control EcHo, DK - Antrachite
305-0226	Neets EasyConnect - Control SieRRa II, DK - Antrachite
305-0205	Neets EasyConnect - Control EcHo, UNI - Antrachite
305-0227	Neets EasyConnect - Control SieRRa II, UNI - Antrachite
305-0207	Neets EasyConnect - Control EcHo, AUS - Antrachite
305-0228	Neets EasyConnect - Control SieRRa II, AUS - Antrachite
305-0220	Neets EasyConnect - NEB, EU incl. NEB Extender
305-0221	Neets EasyConnect - NEB, DK incl. NEB Extender
305-0222	Neets EasyConnect - NEB, UNI incl. NEB Extender
305-0250	Neets EasyConnect - Power EU, 2 * Power
305-0251	Neets EasyConnect - Power DK, 2 * Power
305-0252	Neets EasyConnect - Power UNI, 2 * Power
305-0253	Neets EasyConnect - Power AUS, 2 * Power



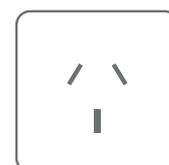
EU "schuko" power socket



Danish power socket



Universal power socket



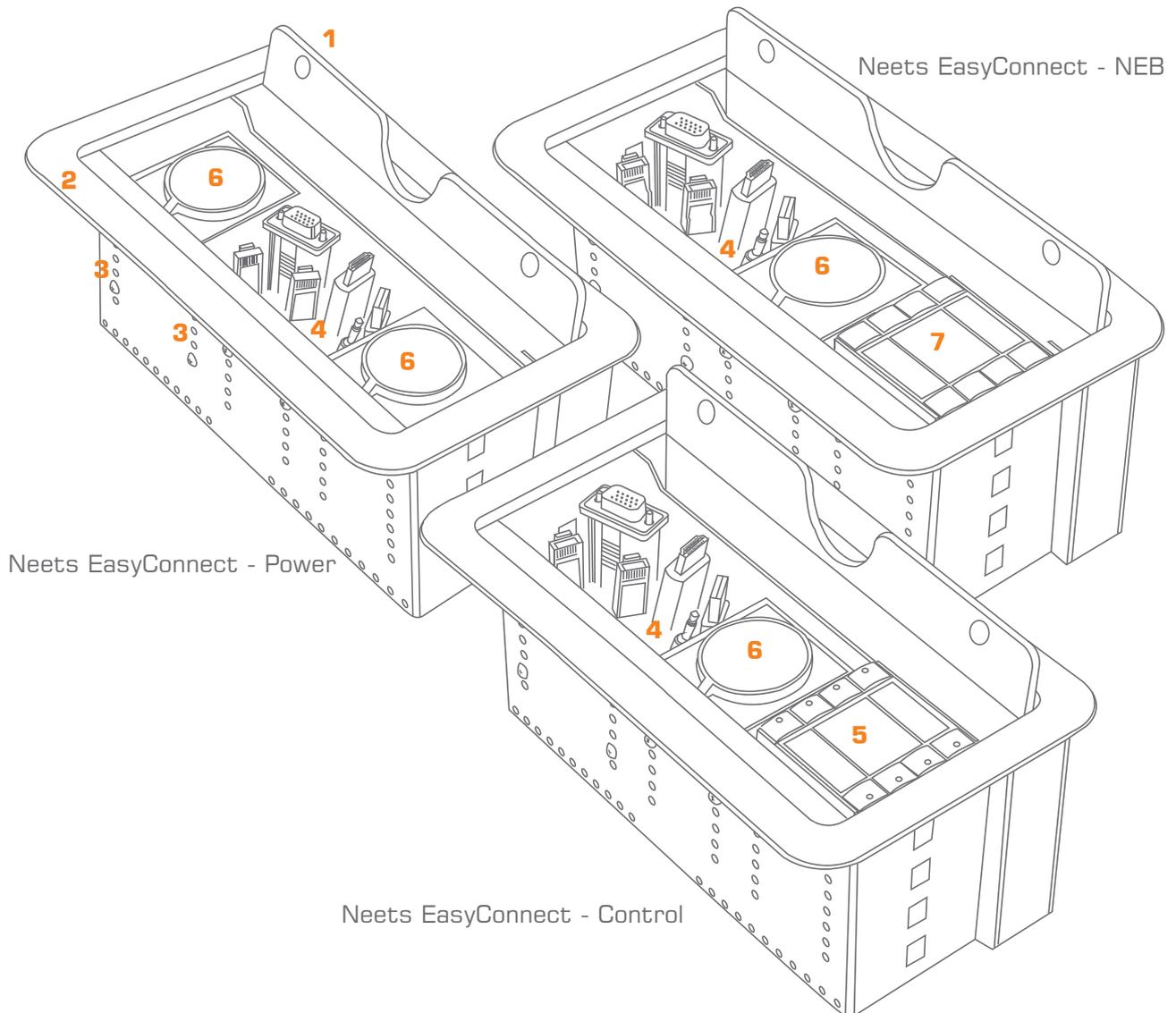
Australian power socket

Accessories:

305-0299	Neets - EasyConnect Cable Bag Black Canvas
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EasyConnect Components

There are 3 different groups of EasyConnect. One with control system, one with a NEB Keypad and one with two power plugs.



Number:	Description
1	Sturdy retractable lid - Opens and closes manually. All connectors are covered when closed, leaving a solid flat surface with only a small opening for lifting the cover
2	Outer flange - Fits over mounting surface for clean appearance
3	Height adjustment screws – Adjusts height of internal connector plate
4	Connector box - Provides space for up to six AV connectors
5	Neets Control – EcHo, EU or Neets Control – SieRRa II, EU system
6	Built-in AC line Outlet with either EU, DK, UNI, AUS or ZA power socket
7	The Neets Expansion Bus - NEB Keypad. The Neets EasyConnect - NEB has no control capabilities, it works as complimentary to the EasyConnect Control unit.

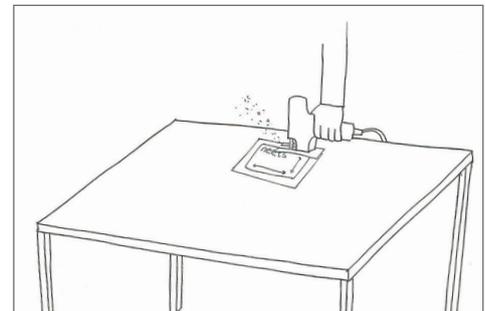
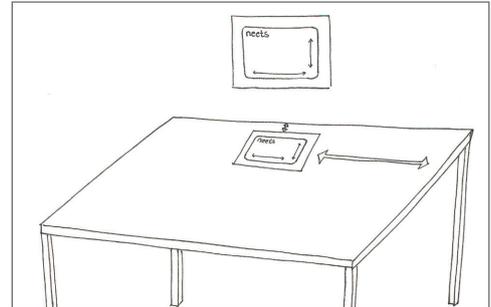
Installation Procedure

Step 1: Prepare opening

Using appropriate tools, cut an opening in the mounting surface with the dimensions shown on the supplied cutout template. The template is found in the cardboard box.

Remove the back of the template and stick it on the mounting surface (also used to protect when cutting).

Cut according to markings using appropriate tools, e.g. a jigsaw.



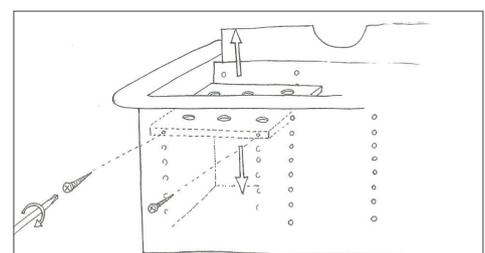
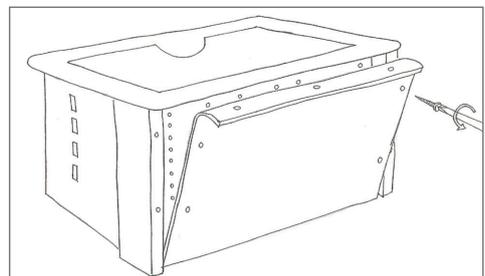
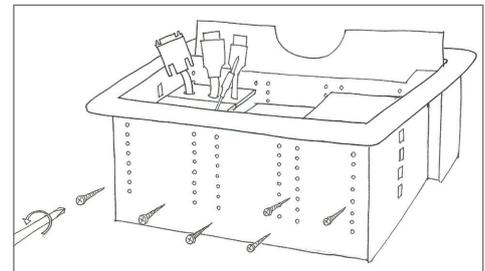
Step 2: Adjust depth of connector plate

If you need a different depth of the plates inside the box you can adjust them as here below.

Remove the height adjustment screws.

Turn the unit and then remove back cover and the height adjustment screws.

Supporting the connector plate from underneath with your fingers, bring the connector plate to the required position. Then replace and tighten the height adjustment screws.

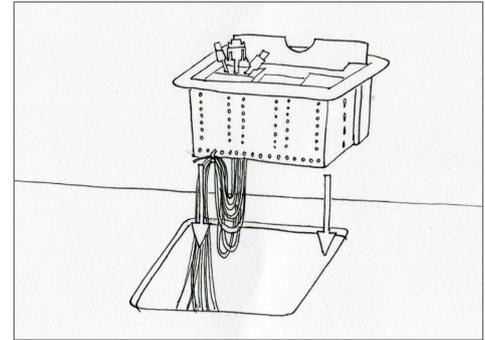


Step 3: Evaluate cable connection procedure/ connect cables

Will it be easier to connect cables to the Neets EasyConnect before mounting it into the tabletop?
 YES - then make some or all cable connections before mounting EasyConnect do step 6 and 7 first and then continue with step 4. NO - then continue with step 4.

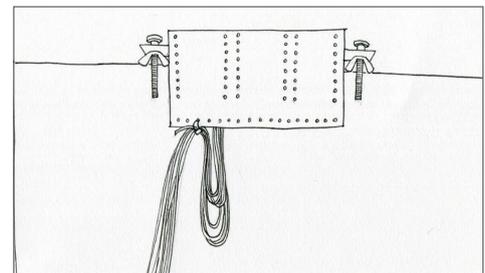
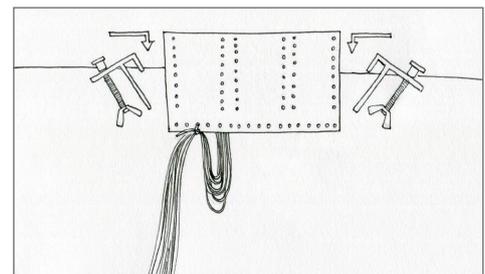
Step 4: Insert the unit

Carefully slide the EasyConnect unit into the opening in the mounting surface.



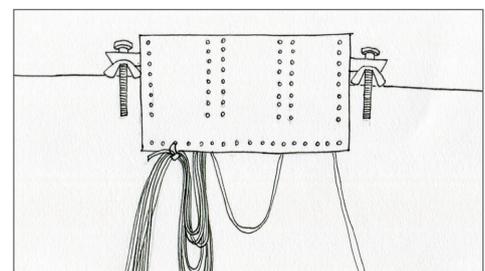
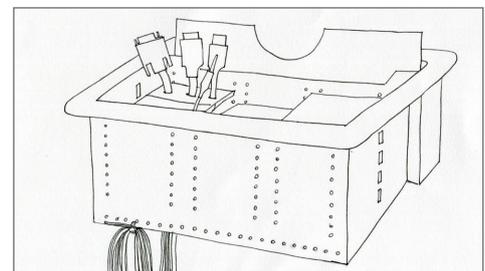
Step 5: Secure the unit

Working underneath the table surface, place the mounting brackets into the slots on each side of the unit. Verify proper alignment before tightening the mounting screws. Turn screws until the top nut contacts the mounting surface. Tighten firmly. NOTICE: maximum thickness of table plate 60 mm



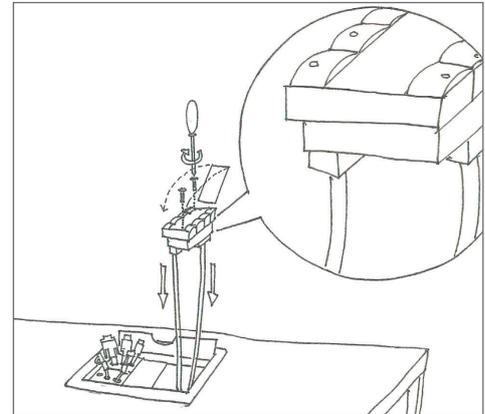
Step 6: Complete cable terminations and connections

Complete any terminations and connections not done in step 3 above. You can tighten the cables with strips to the lower part of the EasyConnect.

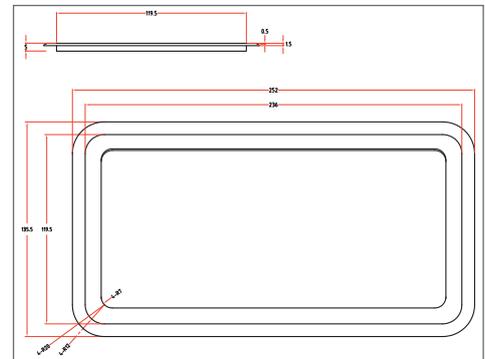


Step 7: Install Neets Control - EcHo or SieRRa II control module (Power version: skip this step)

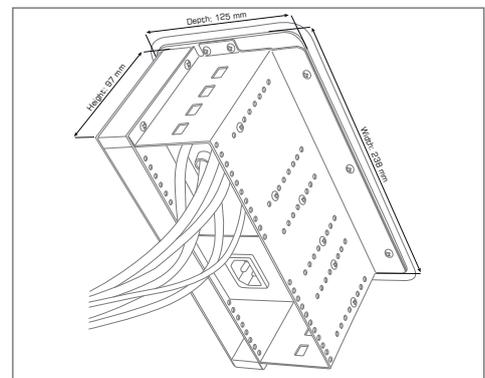
Please connect all cables to the used control system (Neets Control - EcHo or Neets Control - SieRRa II) the 12 Volt DC for the control system is supplied from the Neets EasyConnect unit. Remember the included (in the cardboard box) frame for the control system.



Top plate dimensions:



Recessed box dimensions:



Specifications

All Units:

Enclosure type:	Metal (steel box with cast aluminum top and lid Sliding cover with cable pass-through
Default cables:	HDMI, VGA, 3,5 mm audio, USB-A, Cat-5 type (RJ45)
AC power connector:	EU, Universal or DK power connector
Max power output	10A

Output:

Type:	Open drain
Max Voltage:	24 VDC
Max Current:	0,5 A

Neets Expansion Bus (NEB):
12 V (0.3 A) output
See neets.dk for NEB info

Conformity:

Approval:	CE
Immunity:	EN 61000-6-2:2005
Emission:	EN 61000-6-3:2007

Dimensions:

Recessed box:	
Width:	235 mm
Depth:	89,5 mm
Height:	103 mm
Top plate:	
Width:	252 mm
Depth:	135,5 mm
Height:	1,5 mm
Weight:	2,15 kg

Neets EasyConnect, Control - SieRRa II:

Communication ports:

1 X RS-232 (TX and RX)

Baud: 1200 – 115200

Data Bit: 7/8

Parity: None, Even, Odd

Stop Bit: 1/1/5/2

2 x RS-232 or IR (TX only both)

RS-232

Baud: 1200 – 115200

Parity: None, Even, Odd

Stop Bit: 1/1/5/2

IR:

Transmit

381 Hz – 500 kHz

Devices: 4

LAN:

Speed: 10/100 Mbit

Auto-detect

Devices: 5

3 x input/Output:

Input:

Sense Low: <1 VDC

Sense High: >4 VDC

Output:

Type: Open drain

Max Voltage: 24 VDC

Max Current: 0,5 A

Neets Expansion Bus (NEB):

12 V (0.3 A) output

See neets.dk for NEB info

Neets EasyConnect - Power:

Two EU, Universal, DK, AUS or ZA power socket

Neets EasyConnect - Control:

Direct access to AV control functions w/ Neets Control Echo or SieRRa II integration

Direct-out 12V power supply.

Neets EasyConnect, Control - Echo:

Communication ports:

1 X RS-232 (TX and RX)

Baud: 1200 – 115200

Data Bit: 7/8

Parity: None, Even, Odd

Stop Bit: 1/1, 5/2

1 x RS-232 or IR (TX only)

RS-232

Baud: 1200 – 115200

Parity: None, even, odd

Stop Bit: 1/1, 5/2

IR:

Transmit

381 Hz – 500 kHz

Devices: 2

3 x input/Output:

input:

Sense Low: <1 VDC

Sense High: >4 VDC

Conformity:
Approval: CE
Immunity: EN 61000-6-2:2005
Emission: EN 61000-6-3:2007

Neets EasyConnect - NEB:

Direct-out 12V power supply
8 LED input
Neets control - EcHo: Red
Neets control - SieRRa II: Multicolor
8 switches

Connection to Neets Control - EcHo
and SieRRa II:
4 pin NEB connector
Cable length max 20 cm.

Size (without frame):
Standard: Europe
Height: 55 mm
Width: 55 mm
Depth: 17 mm

Conformity:
Approval: CE
EN 55022
EN 55024

Product item numbers:

305-0200 EasyConnect - EcHo EU,
includes a set of default cables,
Neets Control - EcHo
and EU power socket.

305-0225 EasyConnect - SieRRa II EU,
includes a set of default cables,
Neets Control - SieRRa II
and EU power socket.

305-0205 EasyConnect - EcHo,
includes a set of default cables,
Neets Control - EcHo and
universal power socket.

305-0227 EasyConnect - SieRRa II Uni,
includes a set of default cables,
Neets Control - SieRRa II and
universal power socket.

305-0202 EasyConnect - EcHo DK,
includes a set of default cables,
Neets Control - EcHo
and DK power socket.

305-0226 EasyConnect - SieRRa II DK,
includes a set of default cables,
Neets Control - SieRRa II
and DK power socket.

305-0228 EasyConnect - SieRRa II AUS,
includes a set of default cables,
Neets Control - SieRRa II and
universal power socket.

305-0250 EasyConnect Power EU,
includes a set of default cables
and two EU power sockets.

305-0251 EasyConnect Power DK,
includes a set of default cables
and two DK power sockets.

305-0252 EasyConnect Power Uni,
includes a set of default cables
and two Uni power sockets.

Product item numbers:
305-0220 Neets EasyConnect - NEB EU
includes a set of default cables,
Neets Expansion Bus (NEB) Keypad
and EU power socket.

305-0221 Neets EasyConnect - NEB, DK
includes a set of default cables,
Neets Expansion Bus (NEB) Keypad
and DK power socket.

305-0222 Neets EasyConnect - NEB, UNI
includes a set of default cables,
Neets Expansion Bus (NEB) Keypad
and UNI power socket.

305-0223 Neets EasyConnect - NEB, AUS
includes a set of default cables,
Neets Expansion Bus (NEB) Keypad
and AUS power socket.

305-0224 Neets EasyConnect - NEB, ZA
includes a set of default cables,
Neets Expansion Bus (NEB) Keypad
and ZA power socket.