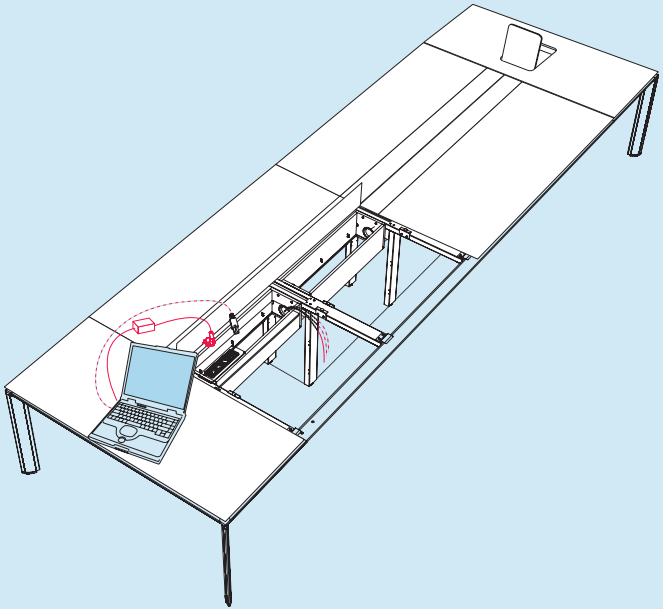
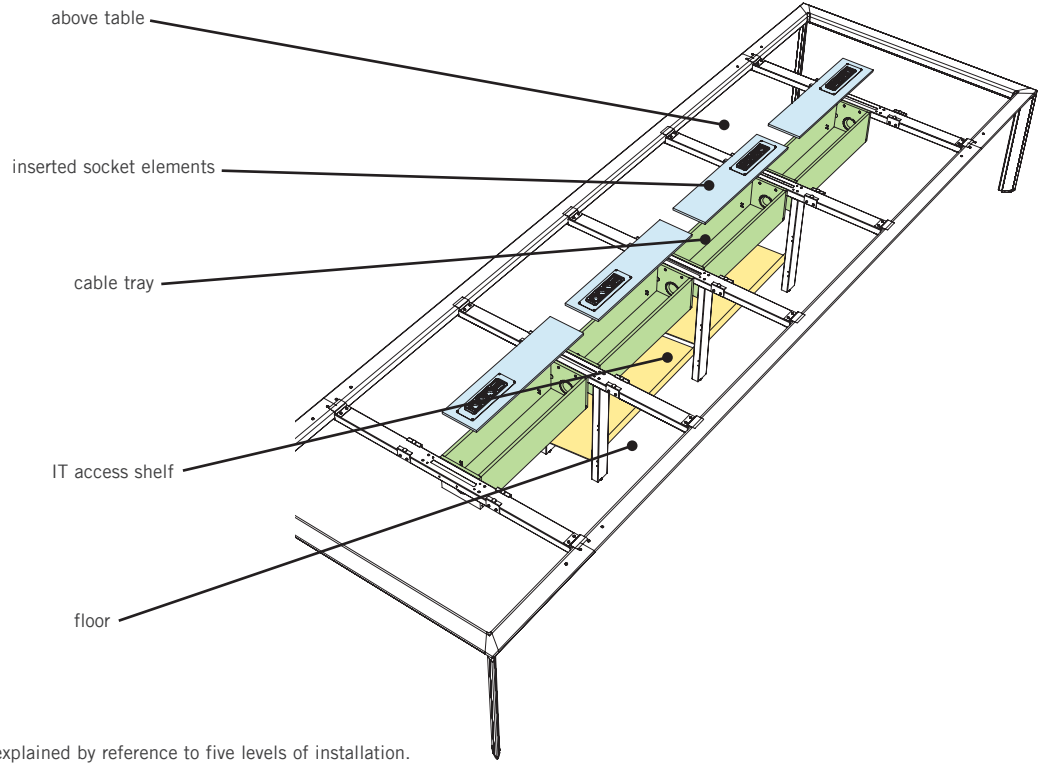
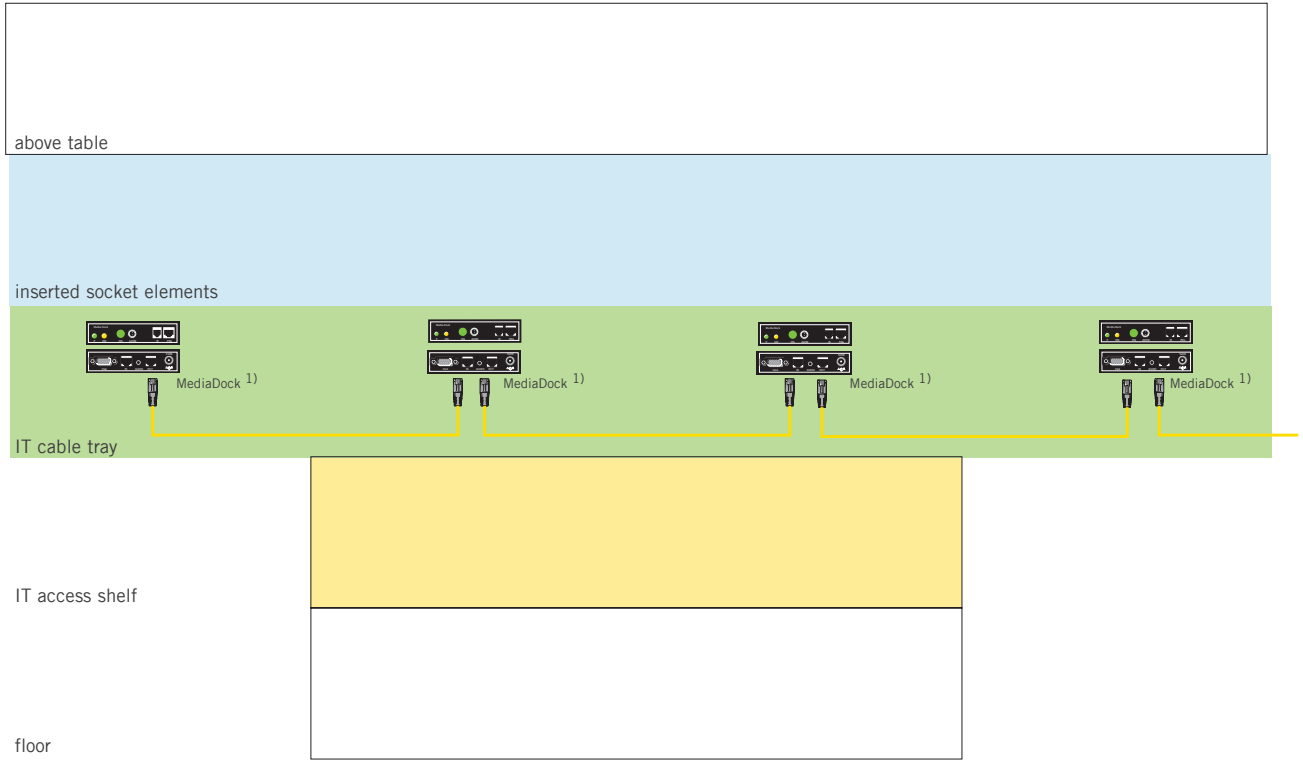
AL_CONFERENCE.
MEDIANET.

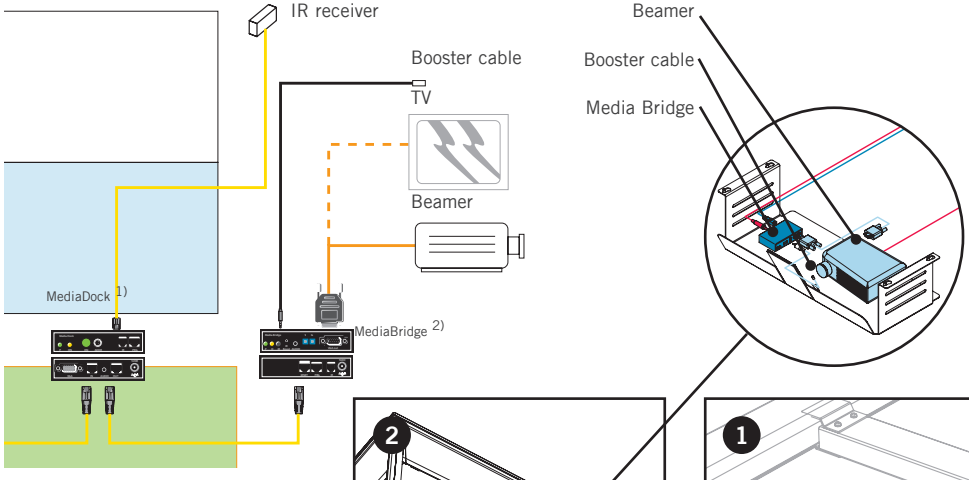




Assembly of MediaNet components is explained by reference to five levels of installation.



1) MediaDock - see page 14 for technical information

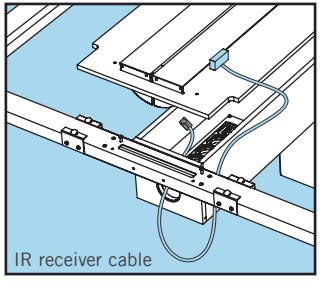


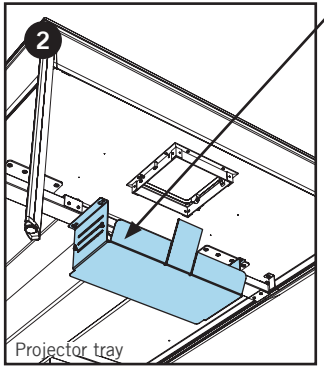
a. Fixing Mediadock to cable tray bottom with pressure seal.

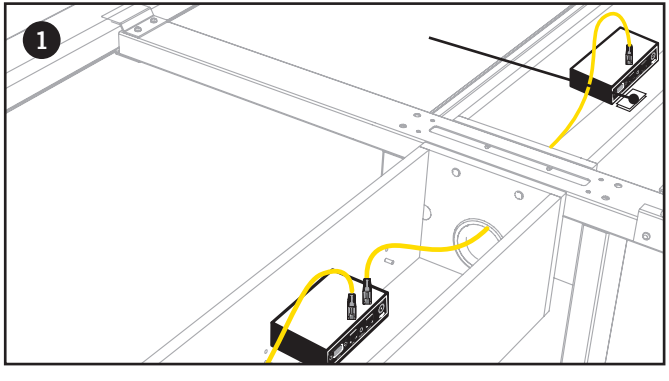
b. Connecting MediaDock with IR receiver cable.
(You can use every MediaDock)

c. Connecting MediaDock with MediaBus cable.

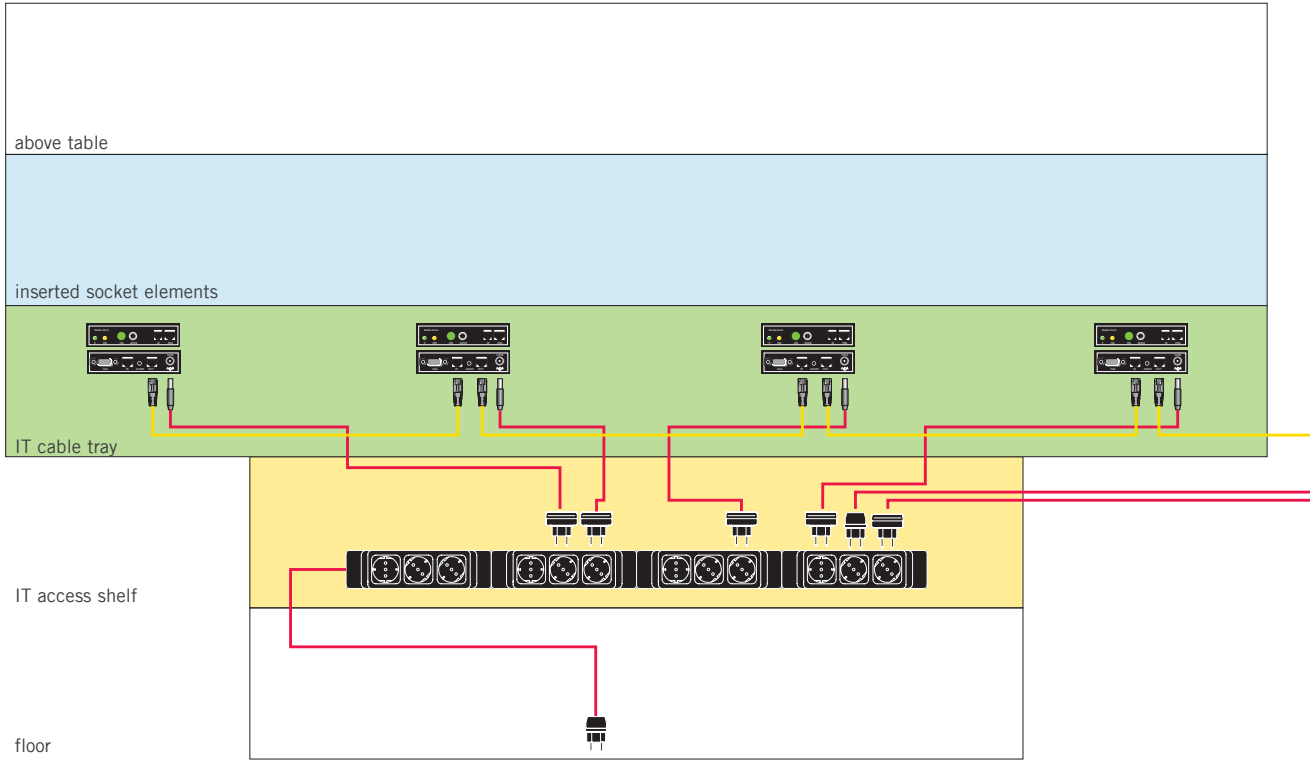
d. Assembly of projektor tray and connecting projector by using MediaBridge.

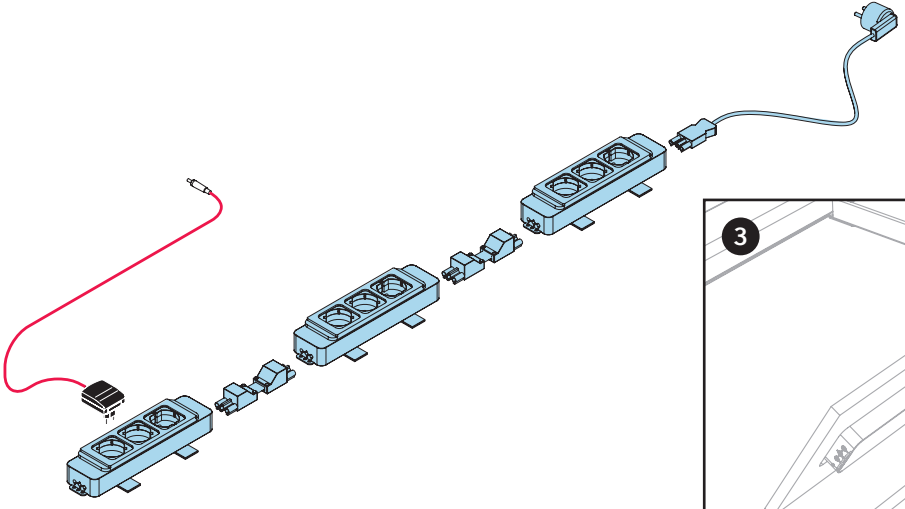


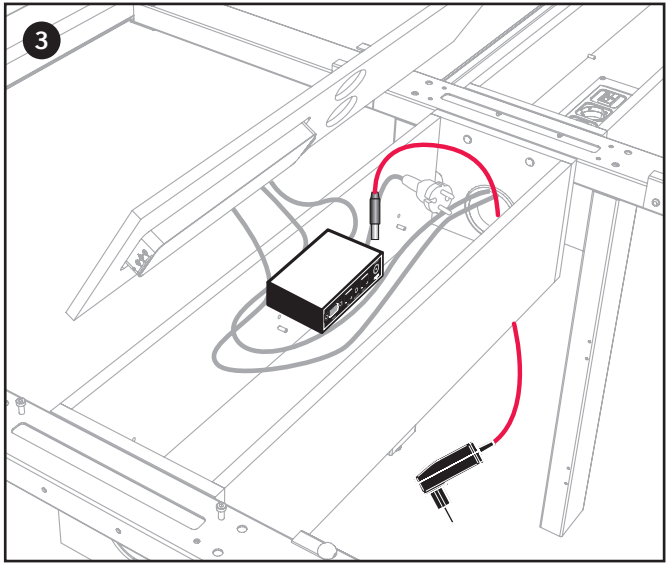




1) MediaDock - See page 14 for technical information
2) MediaBridge - see page 13 for technical information


above table
inserted socket elements
IT cable tray
IT access shelf
floor

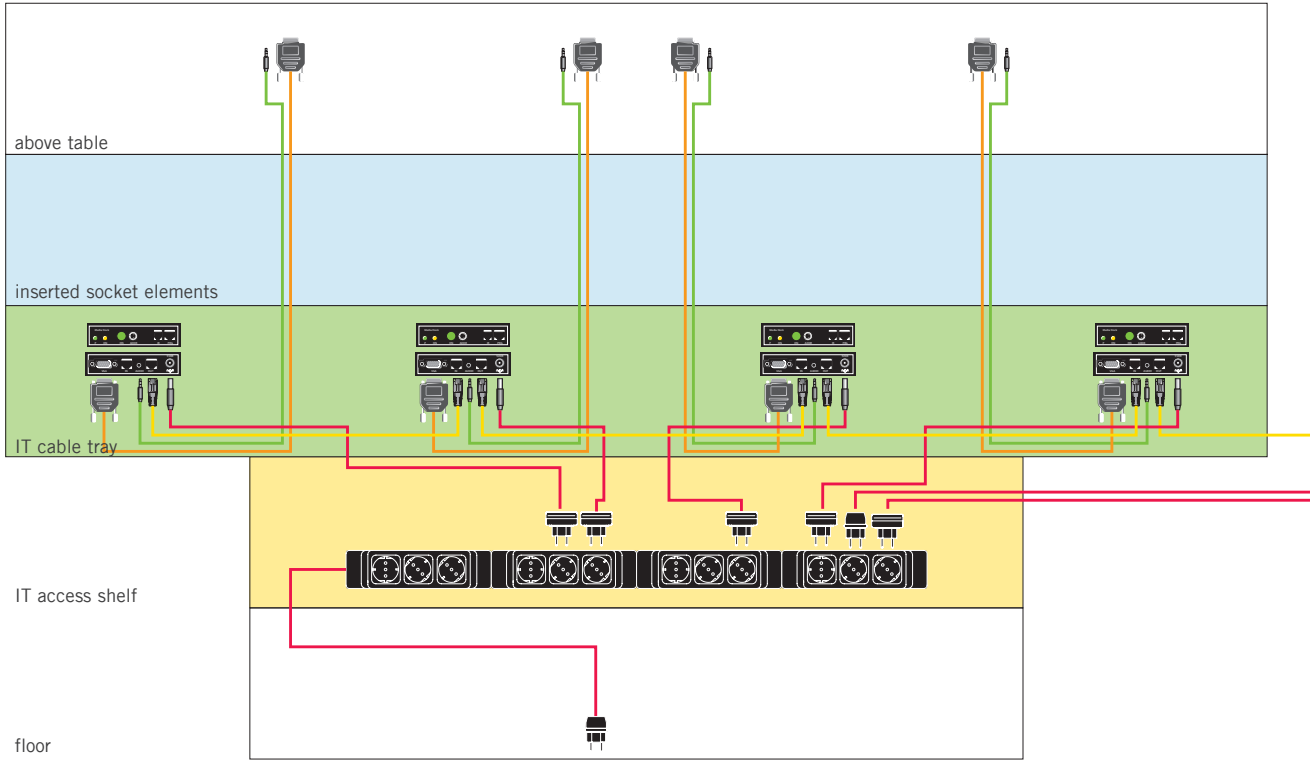


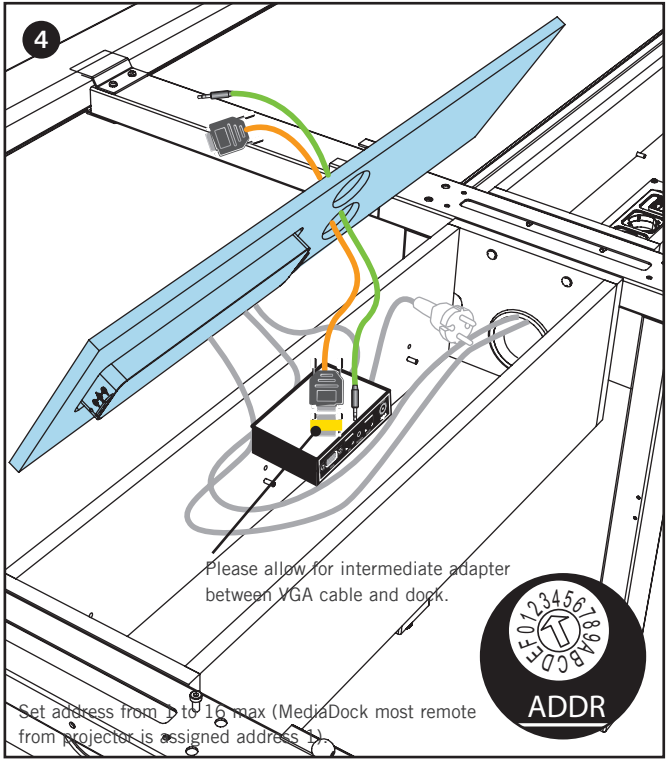


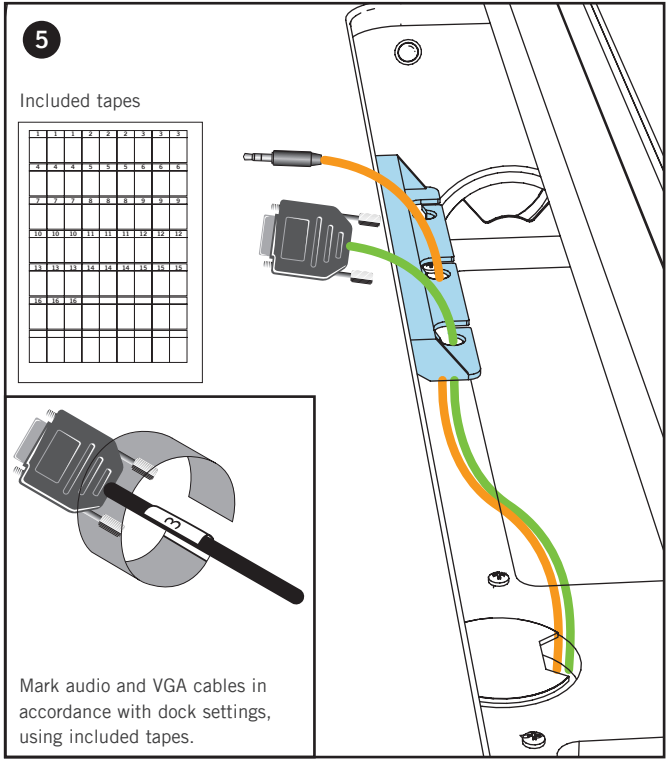
Placing multiple socket outlets on IT access shelf and installing MediaNet power supply.

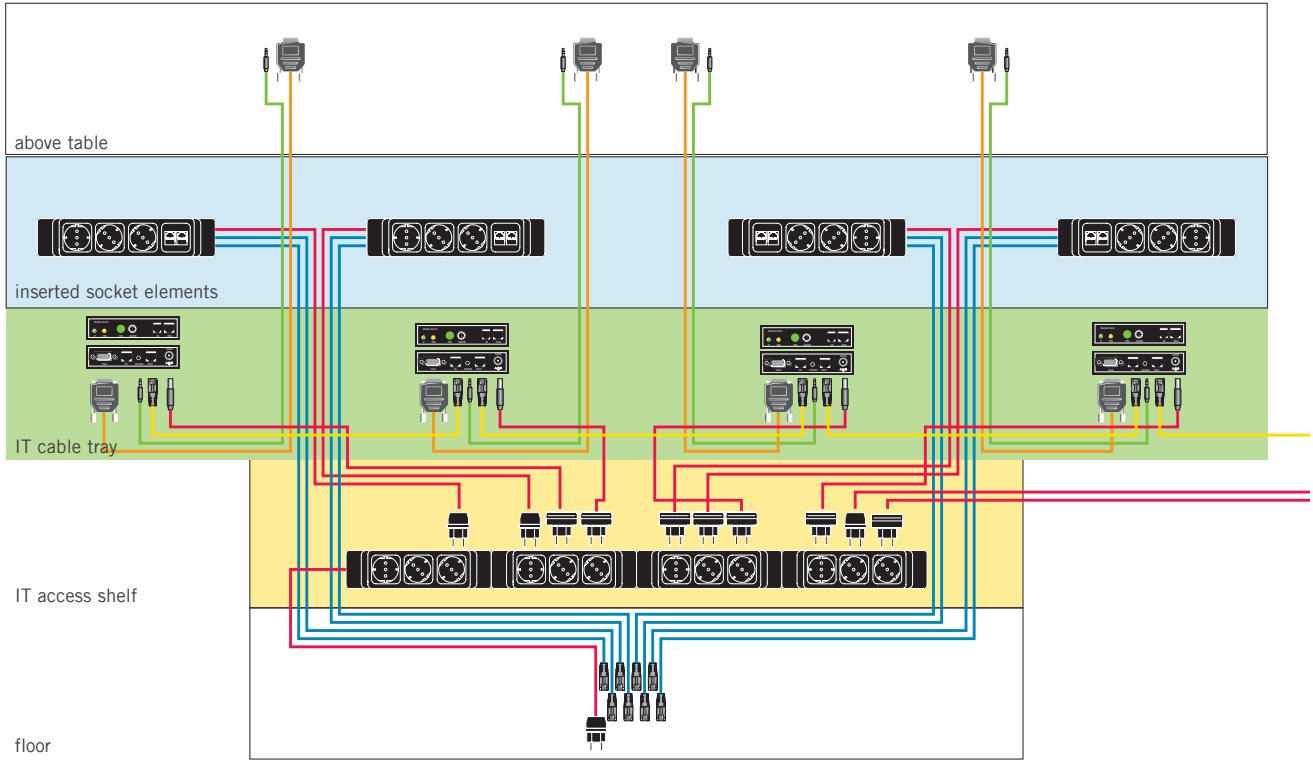
Please make sure to use the right transformers and adapters for MediaNet components.

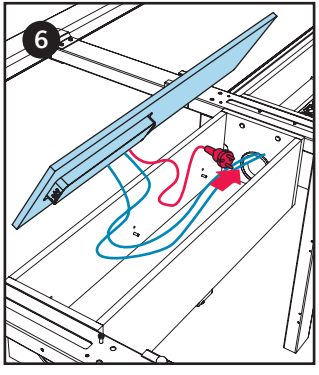
MediaPort 12,0V
Remote Control 7,5V
MediaDock/MediaBridge/RelayBox..... 5,0V


above table
inserted socket elements
IT cable tray
IT access shelf
floor

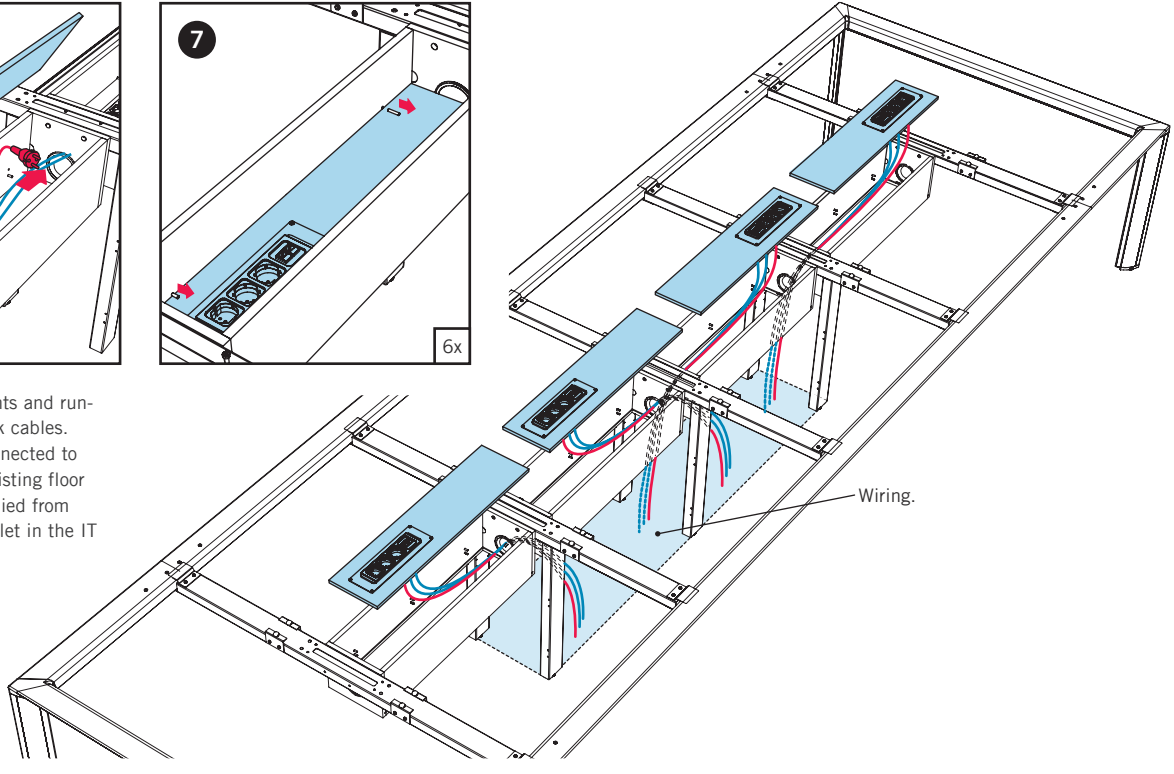

4
Please allow for intermediate adapter between VGA cable and dock.
ADDR
Set address from 1 to 16 max (MediaDock most remote from projector is assigned address 1).

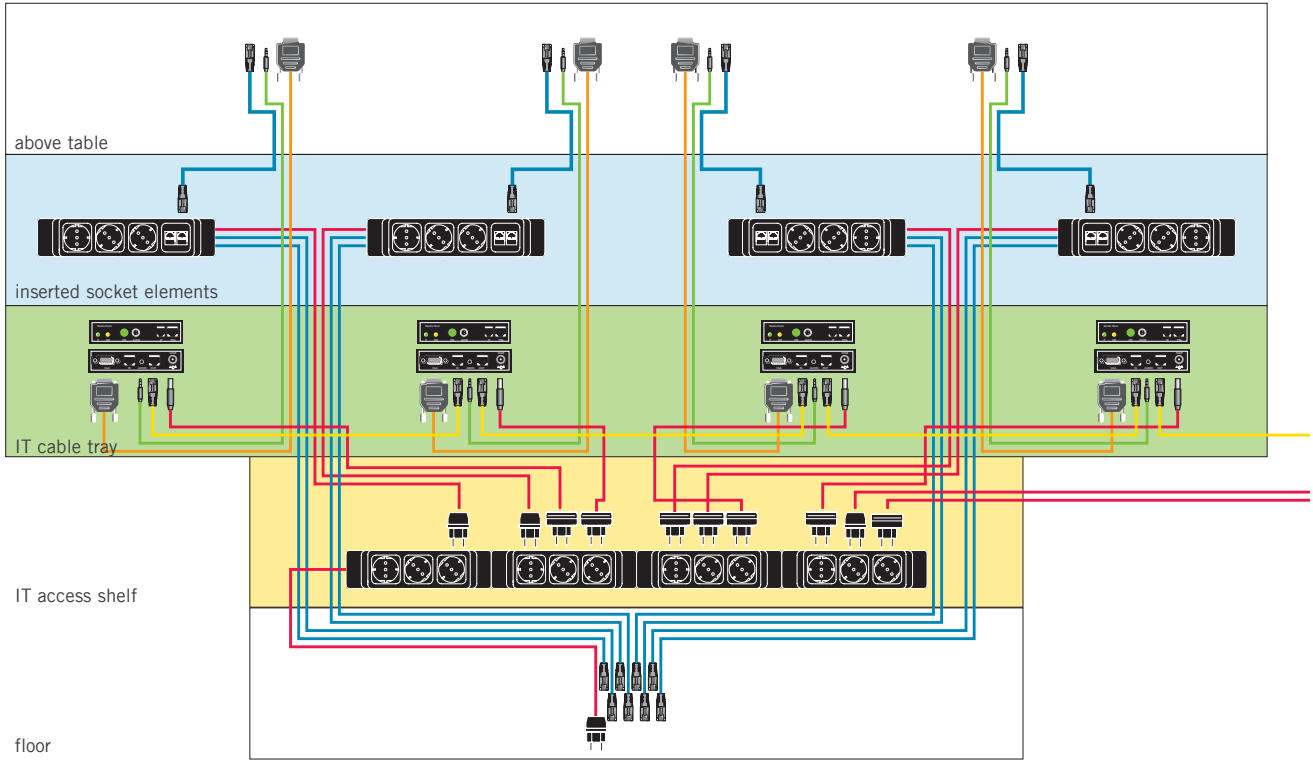

5
Included tapes
Mark audio and VGA cables in accordance with dock settings, using included tapes.

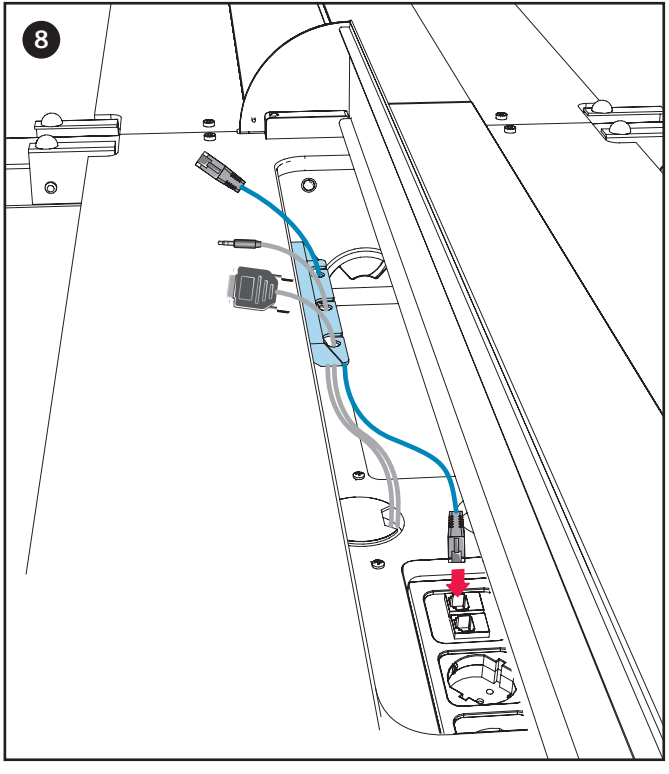

above table
inserted socket elements
IT cable tray
IT access shelf
floor



5. Insert socket elements and running power and network cables. Network cables are connected to the network through existing floor sockets. Power is supplied from the multiple socket outlet in the IT access shelf.




above table
inserted socket elements
IT cable tray
IT access shelf
floor



Now that MediaNet has been wire up, assembly of the table can be continued in accordance with assembly instructions WP MB047.

Front plate elements

P: (Power / Run LED) iluminated when in normal mode
A flashing LED means that the bus or any IR input within the system are defective.
Possible defects:
a. A device connected to the bus is without any supply voltage (most frequent reason for failure)
b. A device connected to any (serial) IR input is defective or without supply voltage (IR receiver, RelayBox, BackBox, SesamBox, PC ...)

D: IR data LED flashes when valid MediaRoom IR data have been received
IR: IR BOOST (amplifies and displays received IR data)
AUDIO: Audio output port (Line level – 0..1Vpp)
G: GHOST – controller that minimises any ghosts
S: SHARP – controller that balancing image definition
VGA: VGA output port (RGB / H+V Sync) rear wall elements

Rear wall elements

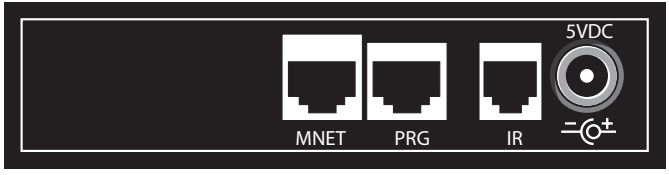
MNET: MediaBus IN (input from MediaBus e.g. video, audio, control data)
PRG: Firmware Update (SPI interface for any firmware updates)
IR: IR / RS232 IO (IR as well as serial input and output)
5VDC: supply voltage (5 VDC / 500 mA max.)

The IR port can be connected to IR-RX infrared receivers or to Relay Box, BackBox and/or MediaPower units.
The “MediaRoom Advanced“ system allows controlling the projector or the display via serial signals (serial connection at IR input/outpout). This usually makes more sense as On/Off commands are available as functions, which makes automation much easier.

MediaBridge

MediaBridge components serve as receivers to the MediaDock devices that are connected to the MediaBus. They come with both a VGA and an audio output to operate projectors and large-scale displays. The integrated IR signal booster receives its control signal via MediaBus cables and activates user-defined large screens and/or active speakers / audio amplifiers by IR control.

If MediaBridge and the receiver are not within viewing distance, an external IR boost cable can be connected. It must be positioned near the IR receiver of the devices to be controlled.



Front plate elements

P: Power / Run LED (illuminated in normal mode)
ON: AKTIVE LED (illuminated when this MediaDock unit is active)
ON: ON KEY (activate this MediaDock unit)
IR: IR / RS232 IO (IR and serial input and output)
PRG: Firmware Update (SPI interface for any firmware updates)

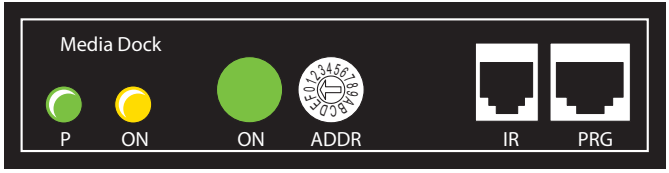
Rear wall elements

VGA: VGA input (RGB / H+V Sync)
IN: MediaBus IN (input for another MediaDock unit)
AUDIO: Audio input (Line level – 0..1Vpp)
OUT: MediaBus OUT (output directed to display device, e.g. plasma screen, projector ...)
5VDC: supply voltage (5 VDC / 500 mA max.)

Technical data

Supply voltage:	5 VDC / 500 mA max.
Video frequency:	dc bis 500MHz
Audio frequency:	20Hz..20KHz
Audio input:	analog / Line level (0..1 Vpp)
Audio transmission:	digital (SPDIF)

Both IR-RX infrared receivers and RelayBox control and/or MediaPower units can be connected to the IR input-outpout. The “ON” key activates a MediaDock, though typically SmartTouch remote control is used to select active positions during presentations. Consequently, all other units on the bus become automatically inactivated.



Set address from 1 to max 16 (MediaDock most remote from projektor is assigned address 1).

MediaDock

This unit serves to feed VGA and audio signals from a PC or notebook into the MediaBus cable of your MediaRoom configuration. MediaDock units are enabled or disabled via addresses. One bus may include up to 16 MediaDock devices (MediaRoom Basic: 8) (address: 0..9, A..F). Active MediaDock units provide their video and audio signals on the bus.

Front plate elements

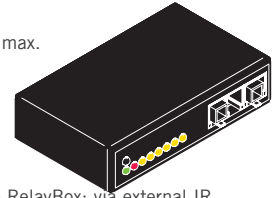
P: Power / Run LED illuminated in normal mode
D: IR data LED light up when valid MediaRoom IR data habe been received
IR: IR BOOST (amplifies and displays received IR data)
PRG: Firmware Update (SPI interface for any firmware updates)
IR: IR & RS232 I/O (IR and serial input/output)

Rear wall elements

5VDC: supply voltage (5 VDC / 500 mA max.)

Technical data

Supply voltage: 5 VDC / 300 mA max.
Switching current (max.): 5 A
Switching voltage (max.): 250 VAC
Breaking capacity (AC max.): 1500 VA



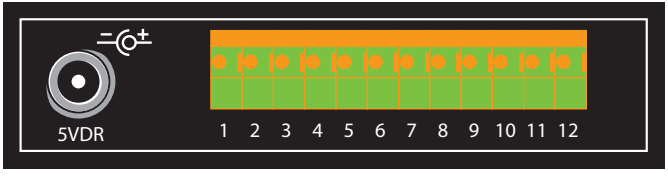
Data interfaces

Basically there are three ways of controlling the RelayBox: via external IR receiver, with an IR patch cable that leads to any other MediaRoom device (MediaPort, MediaBridge, MediaDock) already connected to an IR receiver, or via serial PC interface.
In principle, a MediaRoom System only requires a single IR receiver.
All other devices within the system should be controlled from that receiver.
RJ45 connectors automatically interconnect MediaBridge, MediaPort and MediaDock.
By using RJ11 patch cables, additional devices such as RelayBox can be connected to any other device that has a free IR interface (1:1).

RelayBox

The MediaRoom system's RelayBox serves to control additional facilities such as Venetian blinds, lighting and many devices. It essentially consists of six relays, which are monitored by a CPU and can be controlled via infrared and/or serial interface. All relays can be programmed as push-buttons or switches. It is possible to define the state these relays are to assume after a blackout (or e.g. disconnection of a master switch). A special function is available to control the direction of motors, which locks contacts in a way to allow one rotational direction only.

In combination with its "RelayBox.EXE" programming software, all functions of the RelayBox can be programm.

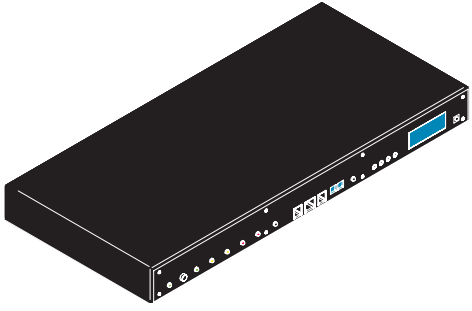


Generally speaking, MediaPort is activated by SmartTouch IR remote control. However, MediaPort /2 Conferencing Switch can also be controlled by one of its serial interfaces. Serial control signals can be supplied to any MediaRoom system device (MediaDock, MediaBridge etc.); control via touch-screen PC is also possible upon request.
Included configuration software allows you to change MediaPort default settings as required. This software also defines all control functions required by your conference system.

Video & Audio.
The MediaPort /2 video component has two outputs that can be switched independently. These two video outputs are provided as Local VGA (=RGB) and Remote (=MediaNet MN) outputs. The Local (= RBG1 & RGB2) and Remote (=MN1 & MN2) outputs provide “image copies” produced by an integrated video splitter.

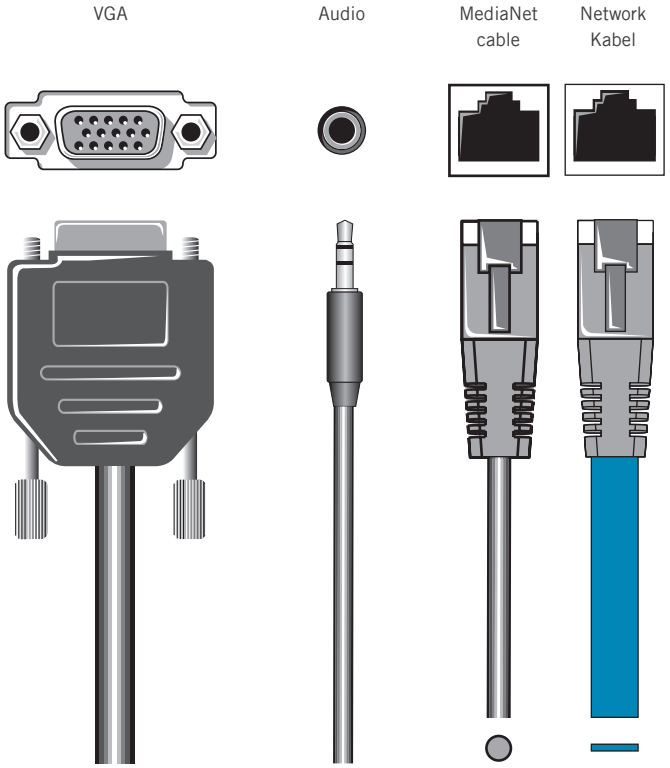
By means of a standard VGA cable (recommended length: up to 2 m), it is possible to connect LCD monitors, displays and projectors to RGB outputs (RGB1 OUT & RGB2 OUT).

A CAT network patch cable connects one or two MediaBridge modules to MediaNet outputs (MN1 & MN2). Recommended length of cable for audio and video display via MediaNet remote connections: up to 35 m. Contrary to RGB outputs, MediaNet outputs also transmit audio signals, infrared signals and many serial control signals.



MediaPort.
The MediaPort conferencing switch serves as a distributing centre for audio and video signals in all “MediaRoom Advanced“ configurations. Via optional RelayBox and MediaPower modules, it can also be used to control features such as Venetian blinds, motor-driven screens, lighting systems and many other devices.

Via serial interfaces, MediaPort /2 also serves heating, ventilation, A/C and refrigeration (HVACR) modules or other serially controllable devices; 3C! vidision’s Mediaport /2 allows complete control of a conference or presentation room without requiring a PC. All additional facilities are neatly and conveniently controlled by SmartTouch IR remote control.


VGA
Audio
MediaNet cable
Network Kabel

Remote Control: infrared remote control, including 7.5 volt battery charger. Transformer and USB cable for connecting to computer.

MediaDock: connection for one laptop, including power supply, with 5 volt transformer, VGA cable, audio cable. BUS: linear series of several docks.

MediaBridge: bridges the last MediaDock and the display device with 5 volt transformer.

MediaPort: server (interface) for additional playback devices (DVD, Video, SAT etc.). One single MediaPort suffices for several devices (max. six). IR remote control operated; 12 volt transformer.

RelayBox: a box to control Venetian blinds, lighting, external screens, ceiling lift (mirror system). Operated by sensor with IR remote control. IR remote control surface is (pre-)programmed by 3C (please call your local electrician for connecting)

Beam-Box: under-table projector tray, including cover and mirror inlaid into tabletop.

VGA – cable: for connecting laptop to MediaDock and MediaBridge to projector (multipolar, diameter 8 mm)

Patch cable: CAT cable from Dock to Dock, Dock to Bridge, Dock to Port or Port to Bridge

Flat patch cable: connecting laptop and network socket.

Audio cable: cable to transmit sound from laptop to MediaDock.

Booster cable: cable for amplifying the infrared signal (e.g. from MediaBridge to projector – On/Off).

MediaDock doesn‘t work

Is MediaDock connected to the 5V power supply unit? (green LED illuminated)
Is the 5V power pack connected to the 220 V power supply system?
Is the MediaDock address set or engaged properly?
Is the VGA plug fixed properly?
Is the VGA cable damaged?
Ist the audio plug fixed properly?
Have I connected the right patch cables (round grey, 6 mm diameter)
Are the individual docks' patch cables connected properly? (IN / OUT)

MediaBridge doesn‘t work

Is MediaBridge connected to the 5V power supply unit? (green LED illuminated)
Is the 5V power pack connected to the 220 V power supply system?
Have I connected the right patch cables (round grey, 6 mm diameter)
Is MediaBridge properly connected to the MediaDocks?
In case of lack of direct viewing contact, is the booster cable connected to the output device?

RelayBox doesn‘t work

Is RelayBox connected to the 5V power supply unit? (green LED illuminated)
Is the 5V power pack connected to the 220 V power supply system?
Is any IR receiver connected?
Does the IR receiver have direct viewing contact with Remote Control?

Information

When a system disposes of several RelayBoxes whose operation should be independent from each other, RelayBoxes and Remote Control must be reprogrammed.

Remote Control doesn‘t work

Is Remote Control connected to the 7.5V power supply unit?
(red LED briefly illuminated)
Is the 7.5V power supply unit connected to the 220V power supply system?
Are the accumulators inserted into Remote Control? (3 pcs.)
Is an operating surface visible?
Has the right software be installed?

Basic	without MediaPort
Advanced	with MediaPort (e.g. to play back DVD, digital receiver, usw.)

MediaPort doesn‘t work

Is MediaPort connected to the 12V power supply unit?
(green LED and blue display illuminated)
Is the 12V power supply unit connected to the 220V power supply system?
Is the MediaPort properly connected to the system? (MediaNet)
Are external A/V players correctly connected to the port?
Is the booster cable for amplifying IR reception of the video recorders connected?
Are the active speakers properly connected?

BENE HEADOFFICE A-3340 WAIDHOFEN/YBBS SCHWARZWIESENSTRASSE 3 TELEFON +43-7442-500-0 E-MAIL OFFICE@BENE.COM

ÖSTERREICH: BREGENZ, GRAZ, INNSBRUCK, KLAGENFURT, LINZ, SALZBURG, ST. PÖLTEN, WIEN. **BULGARIA:** SOFIA. **CZECH REPUBLIC:** PRAGUE. **DEUTSCHLAND:** ASCHAFFENBURG, BERLIN, BONN, DÜSSELDORF, ESSEN, FRANKFURT, HAMBURG, HANNOVER, LEIPZIG, MANNHEIM, MÜNCHEN, SCHWENNINGEN, STUTTGART-MÖHRINGEN. **HUNGARY:** BUDAPEST. **IRELAND:** DUBLIN. **MIDDLE EAST:** DUBAI. **POLAND:** WARSAW. **ROMANIA:** BUCHAREST. **RUSSIAN FEDERATION:** MOSCOW. **SERBIA:** BELGRAD. **SLOVAKIA:** BRATISLAVA. **SLOVENIA:** LJUBLJANA. **SWITZERLAND:** WALLISELLEN. **UKRAINE:** KIEV. **UNITED KINGDOM:** LONDON.

FACHHANDELSPARTNER / TRADING PARTNERS: BELGIUM: ZAVENTEM. **CROATIA:** ZAGREB. **DENMARK:** COPENHAGEN. **DEUTSCHLAND:** BAYREUTH, BREMEN, DONAUWÖRTH, ERLANGEN, MÜNSTER, NÜRNBERG, REGENSBURG, SAARBRÜCKEN, SAARLOUIS, SÜSSEN. **FRANCE:** LILLE, LYON, MONTPELLIER, NANTES, NICE, PARIS, TOULOUSE. **ITALY:** MERAN. **KUWAIT:** KUWAIT. **LIECHTENSTEIN:** SCHAAN. **LUXEMBOURG:** LUXEMBOURG. **NETHERLANDS:** HAAKSBERGEN, ROTTERDAM, WILP. **QATAR:** DOHA. **SPAIN:** BARCELONA.

HTTP://BENE.COM