

TANDBERG Intern MXP

Product Installation & Administrator's Guide

ENVIRONMENTAL ISSUES

Thank you for buying a product, which contributes to a reduction in pollution, and thereby helps save the environment. Our products reduce the need for travel and transport and thereby reduce pollution. Our products have either none or few consumable parts (chemicals, toner, gas, paper). Our products are low energy consuming products.

Battery handling

Batteries for the Remote Control are Long Life and Alkaline batteries saving the environment; please follow guidelines on the packing material for handling and disposal of the batteries.

Waste handling

No need to send material back to TANDBERG as there are no consumables to take care of. Please contact your local dealer for information on recycling the product by sending the main parts of the product for disassembly at local electronic waste stations, marking recyclable parts so the waste station can disassemble and re-use these parts.

Production of Products

Our factories employ the most efficient environmental methods for reducing waste and pollution and ensuring the products are recyclable.

Digital User Manuals

TANDBERG is pleased to announce that it has replaced the printed versions of its User Manuals with a digital CD version. The environmental benefits of this are significant. The CDs are recyclable and the savings on paper are huge. A simple web-based search feature helps users directly access the information they need. In addition, the TANDBERG video systems now have an intuitive on-screen help function, which provides a range of useful features and tips. The content of the CD can still be printed locally if the need arises.

WARNINGS

While no currently available technology can completely substitute for the in-person physical examination of an individual patient or specimen, the TANDBERG products provide high quality, high resolution, long distance images. When used properly, these Healthcare products can provide a significant and valuable tool for physicians and other medical professionals who are unable to examine a patient or specimen in person. The use and value of the system will vary depending on the specific circumstances of the patient's condition. Ultimately, judgments on how this tool should be used must be in the individual discretion of physician supervising the patient's care.

For Customers In North America

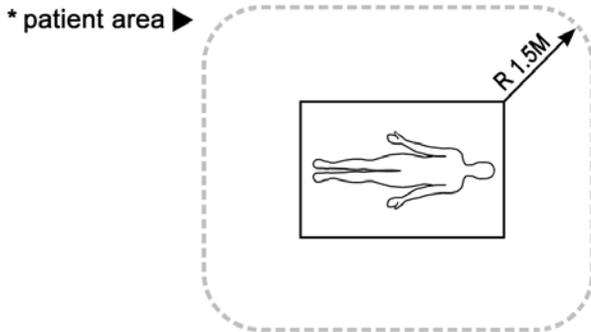
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, 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 the user's own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment

IMPORTANT SAFEGUARDS NOTICE FOR USE IN MEDICAL ENVIRONMENTS

- All the equipment connected to this system shall be certified according to UL Standard UL2601-1 or other IEC/ISO/CSA Standards applicable to the equipment.
- When this system is used together with other equipment in the patient area*, the equipment shall be either powered by an isolation transformer or connected to the power outlet that is at the base of the cart, unless it is certified according to UL Standard UL2601-1 and UL2601-1-1.

NOTE: The power outlet provided in the system is powered from an isolation transformer. The maximum output rating of this outlet is 165 Watts.



- The leakage current could increase when connected to other equipment.
- The operator should take precautions to avoid touching the rear panel input and output circuitry and the patient at the same time.
- To isolate the system from the mains supply remove the mains plug from the wall socket.

Warning on Power Connection

Use a proper power cord for your local power supply.
NEVER USE AN EXTENSION CABLE TO POWER THE SYSTEM.

	United States	Canada
Plug Type	Hospital Grade	Hospital Grade
Cord Type	SJT3 x 18 AWG	SJT3 x 18 AWG
Minimum Cord Set Rating	10A/125V	10A/125V
Safety Approval	UL/CSA	CSA

OPERATOR SAFETY SUMMARY

For your protection, please read these safety instructions completely before operating the equipment and keep this manual for future reference. The information in this summary is intended for persons who operate the equipment as well as repair (servicing) personnel. Carefully observe all warnings, precautions and instructions on the apparatus, or the ones described in the operating instructions and adhere to them. Also, adhere to safety guidelines found in manuals for any peripheral equipment. For your protection, the instruction manual for the LCD display is provided.

Equipment Markings

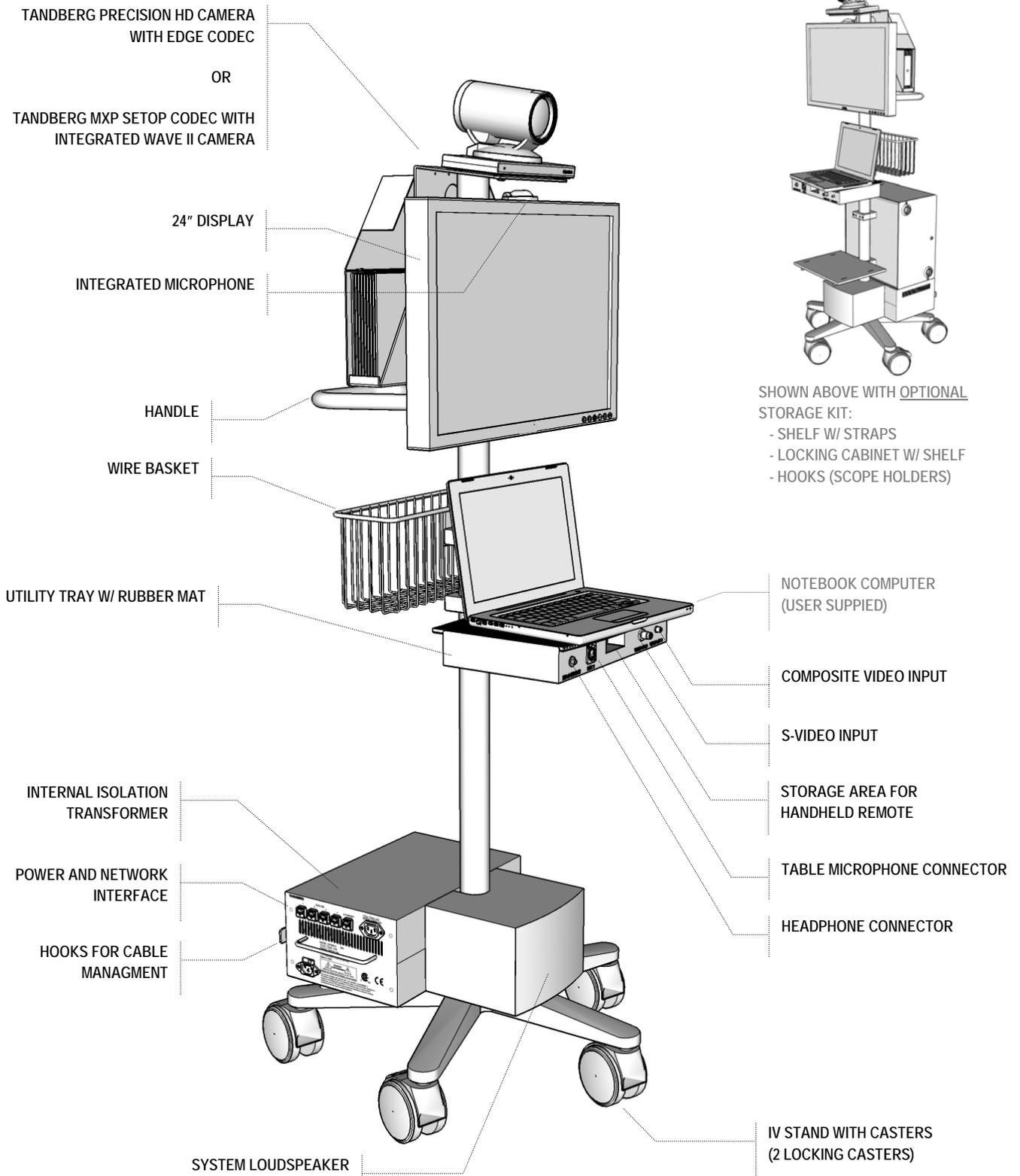
The lightning flash symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltages” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions within literature accompanying the equipment.

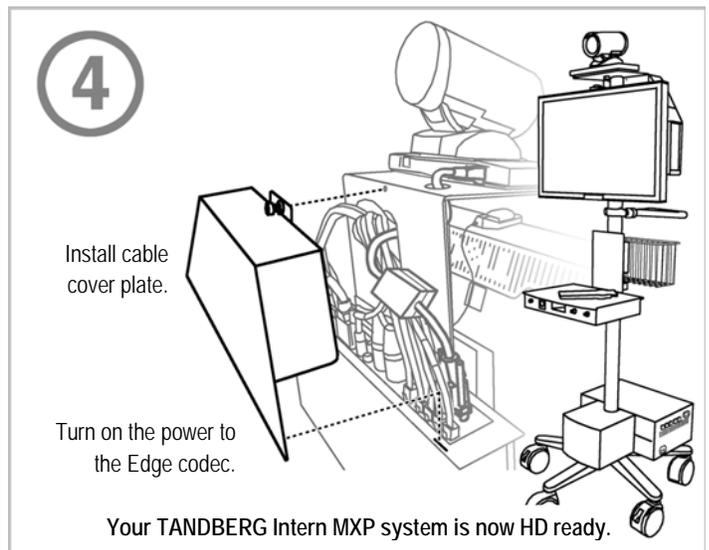
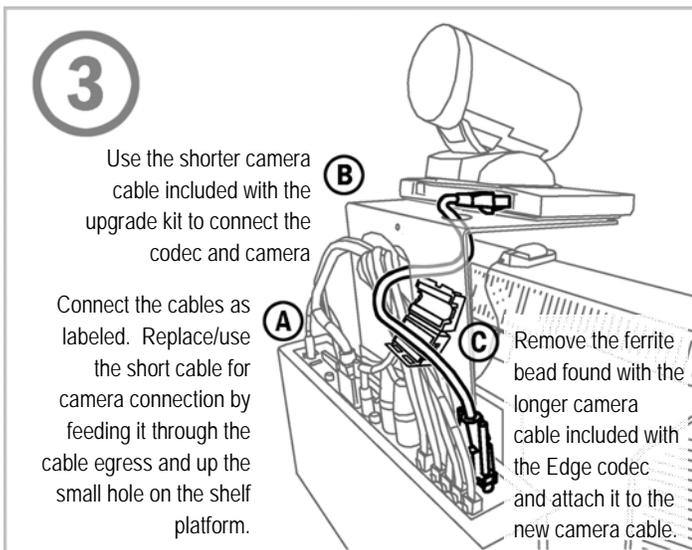
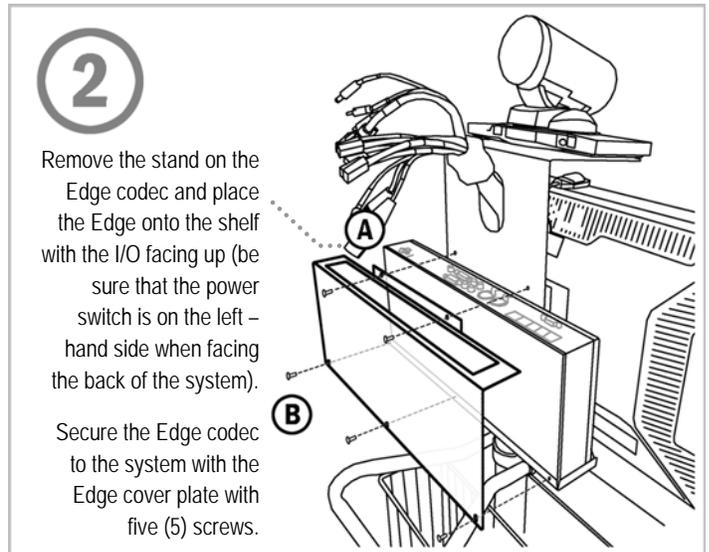
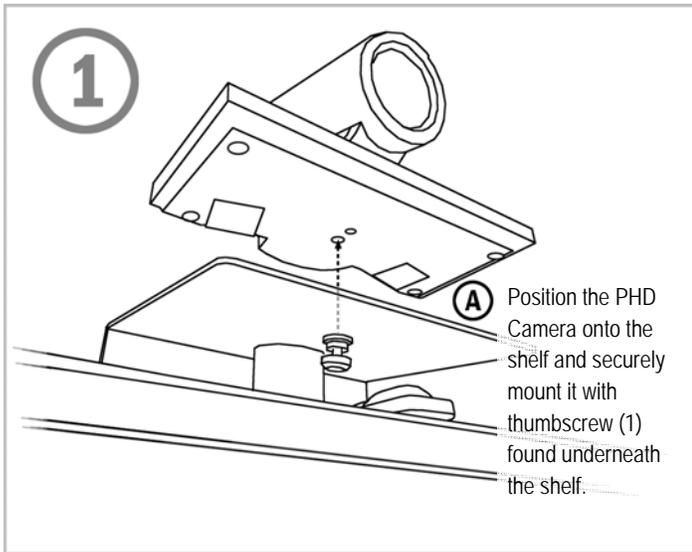
- **Water and moisture** - Do not operate the equipment under or near water - for example near a bathtub, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool or in areas with high humidity.
- **Cleaning** - Unplug the apparatus from the wall outlet before cleaning or polishing. Do not use liquid cleaners or aerosol cleaners. Use a lint-free cloth lightly moistened with water for cleaning the exterior of the apparatus.
- **Ventilation** - Do not block any of the ventilation openings of the apparatus. Install in accordance with the installation instructions. Never cover the slots and openings with a cloth or other material. Never install the apparatus near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Grounding or Polarization** - Do not defeat the safety purpose of the 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 third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician.
- **Power-Cord Protection** - Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the apparatus.
- **Attachments** - Only use attachments as recommended by the manufacturer.
- **Accessories** - Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- **Lightning** - Unplug this apparatus during lightning storms or when unused for long periods of time.
- **ISDN cables** - CAUTION - To reduce the risk of fire, use only No. 26 AWG or larger telecommunication line cord.
- **Servicing** - Do not attempt to service the apparatus yourself as opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.
- **Storage** - If you need to store the system, ensure that it is stored in a controlled environment to avoid damage. (*controlled environment = -10 - 40 °C (14 - 104 °F); 10 - 90% relative humidity*)
- **Repacking** - Do not throw away the carton and packing materials. They make for an ideal container with which to transport the system.
- **Mobility** - Before moving the system unplug the power cord and ISDN lines and securely wrap them around the cable wrap brackets. Unplug the table microphone and carry separately. To move the cart, hold the cart handle. You may use the camera tilt handle for local repositioning of the cart.
- **Damaged Equipment** - Unplug the apparatus from the outlet and refer servicing to qualified personnel under the following conditions:
 - When the power cord or plug is damaged or frayed
 - If liquid has been spilled or objects have fallen into the apparatus
 - If the apparatus has been exposed to rain or moisture
 - If the apparatus has been subjected to excessive shock by being dropped, or the cabinet has been damaged
 - If the apparatus fails to operate in accordance with the operating instructions.



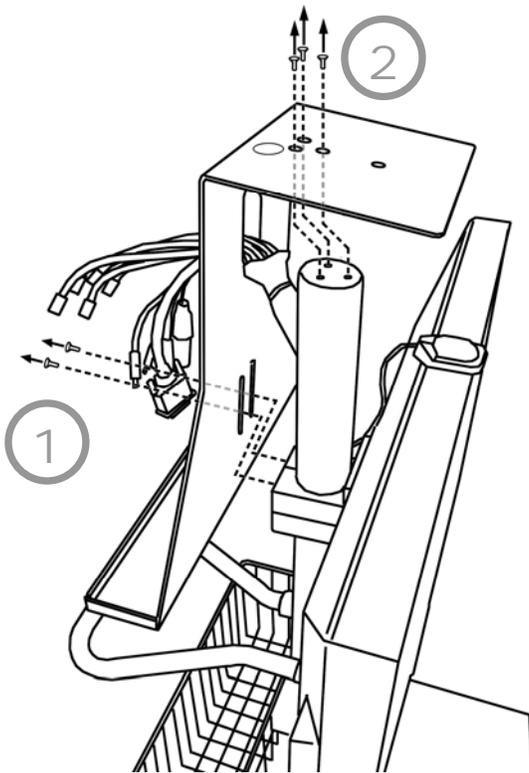
TANDBERG INTERN MXP PARTS OVERVIEW



INSTALLING TANDBERG INTERN MXP EDGE CODEC KIT

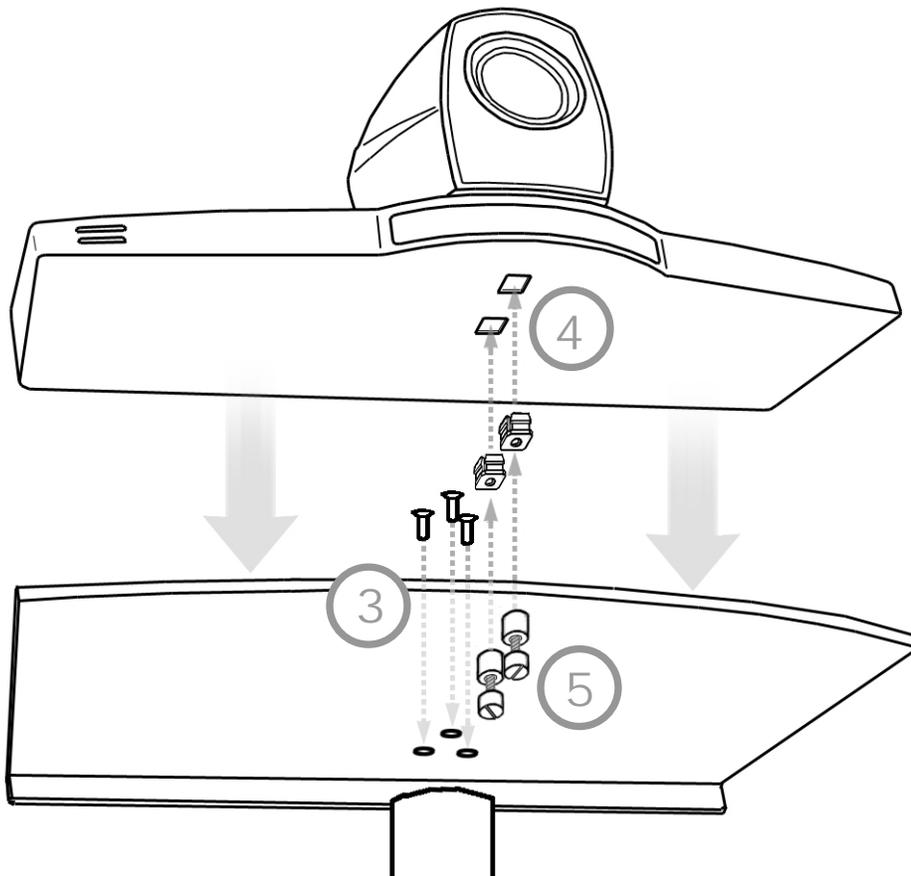


INSTALLING TANDBERG INTERN MXP SET-TOP CODEC KIT



To install the TANDBERG Set-Top Codec, remove the Precision HD Camera Shelf from the top of the Intern cart and replace with the Set-Top Codec Shelf:

1. Remove the SCREWS (2) from the COLLAR on the pole.
2. Remove the BOLTS (3) from the TOP of the pole.
3. Use the same three BOLTS to mount the SET-TOP CODEC SHELF to the top of the POLE.
4. Insert the white PLASTIC NUT INSERTS (2) into the bottom of the SET-TOP CODEC.
5. Place the SET-TOP CODEC on the shelf and use the SCREWS (2) at the bottom the SHELF to securely mount the CODEC.
6. Make the appropriate CONNECTIONS to the rear of the codec.



Precautions:

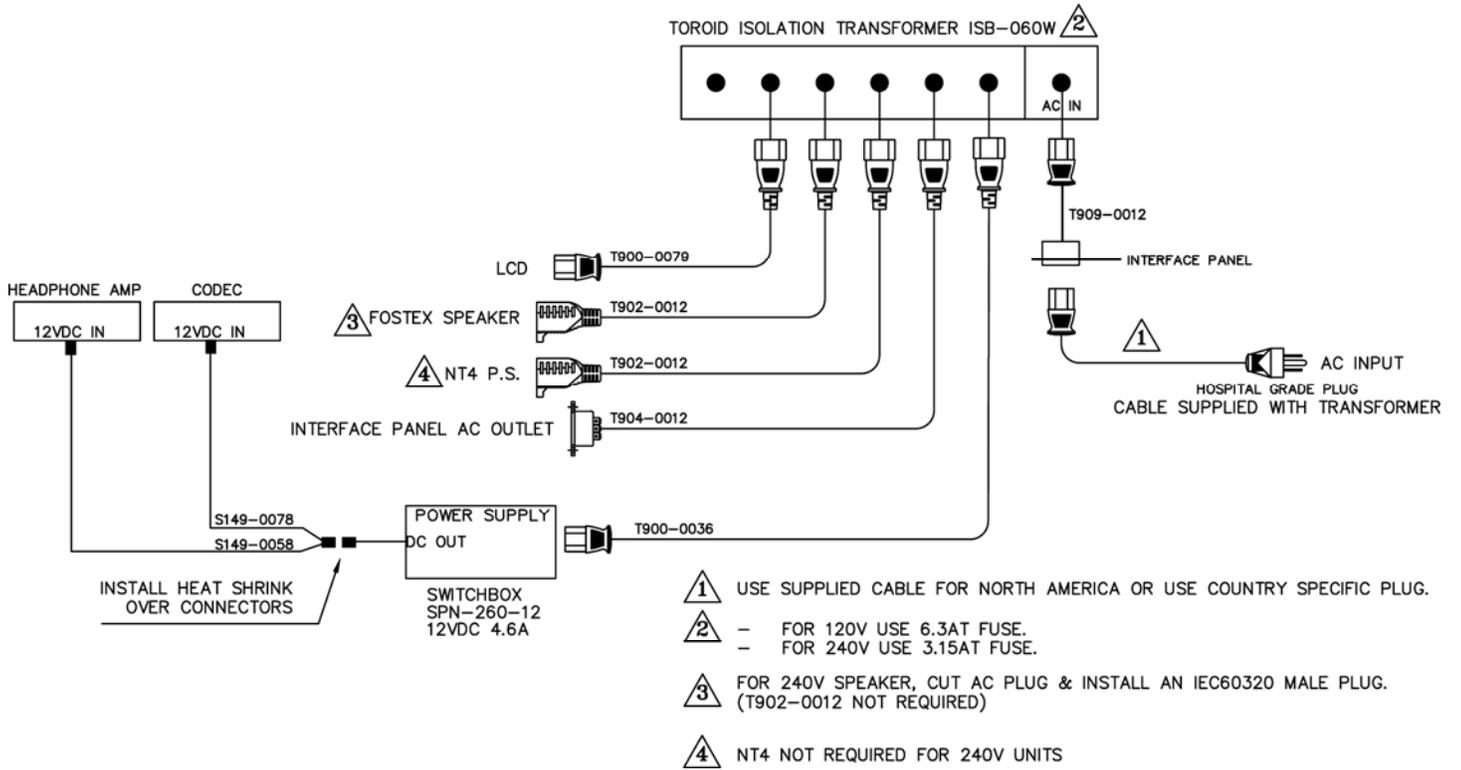
- Never install communication wiring during a lightning storm.
- Never install jacks for communication cables in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninstalled communication wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying communication lines.
- Avoid using communication equipment (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
- Do not use the communication equipment to report a gas leak in the vicinity of the leak.
- Always connect the product to an earthed socket outlet.
- The socket outlet shall be installed near to the equipment and shall be easily accessible.
- Never install cables without first switching the power OFF.
- 1TR6 network type is not approved for connection directly to the telecommunications network. This network type is only to be used behind a PABX.
- X.21 network type is not approved for connection directly to the telecommunications network. This network type is only to be used together with already approved equipment, and is not meant for direct connections to the telecommunication networks.
- V.35/RS-449/RS-366 network type is not approved for connection directly to the telecommunications network. This network type is only to be used together with already approved equipment, and is not intended for direct connection to the telecommunication networks.
- This product complies with directives: LVD 73/23/EC, EMC 89/366/EEC, R&TTE 99/5/EEC

System Configuration

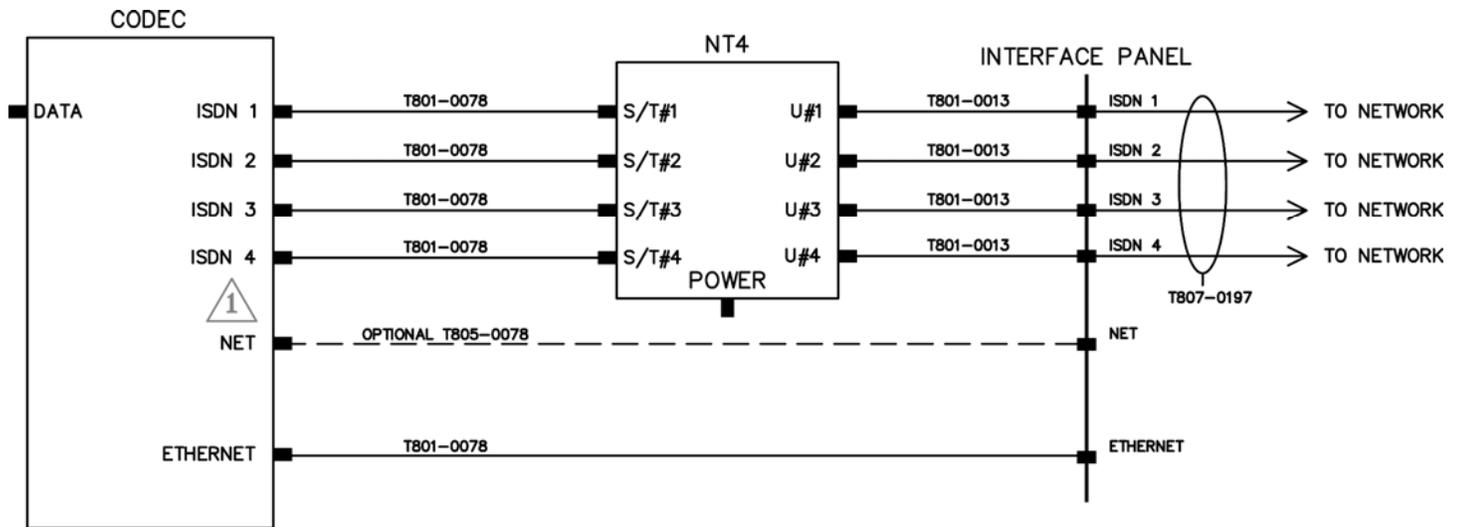
Please refer to the TANDBERG CODEC documentation for system configuration. Network, audio, and other codec configuration settings are needed to effectively use this system.

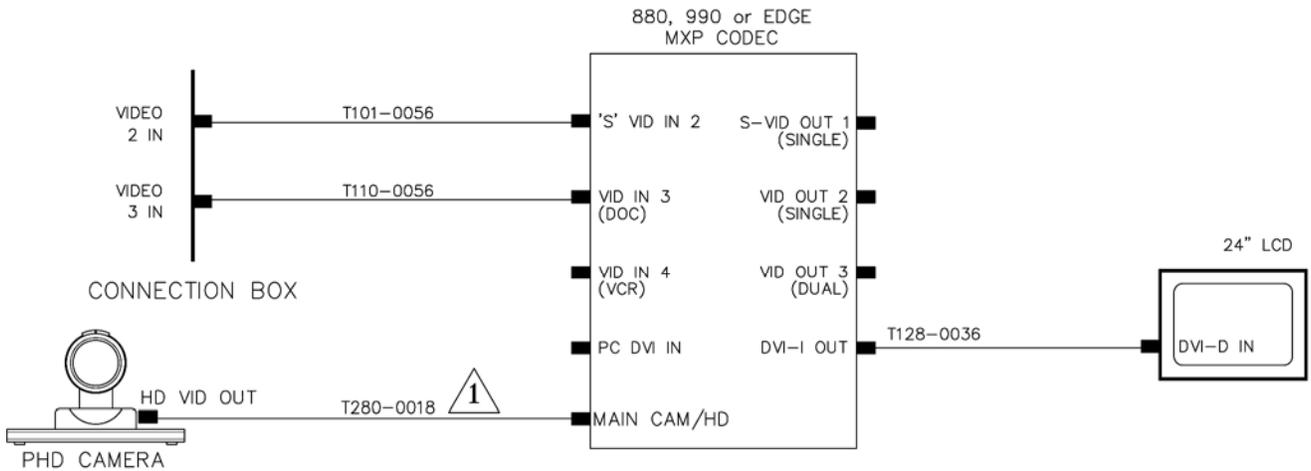
You may visit <http://www.tandberg.com/support/video-conferencing-documentation.jsp> for all documentation related to the TANDBERG Intern MXP.

SCHEMATIC | POWER

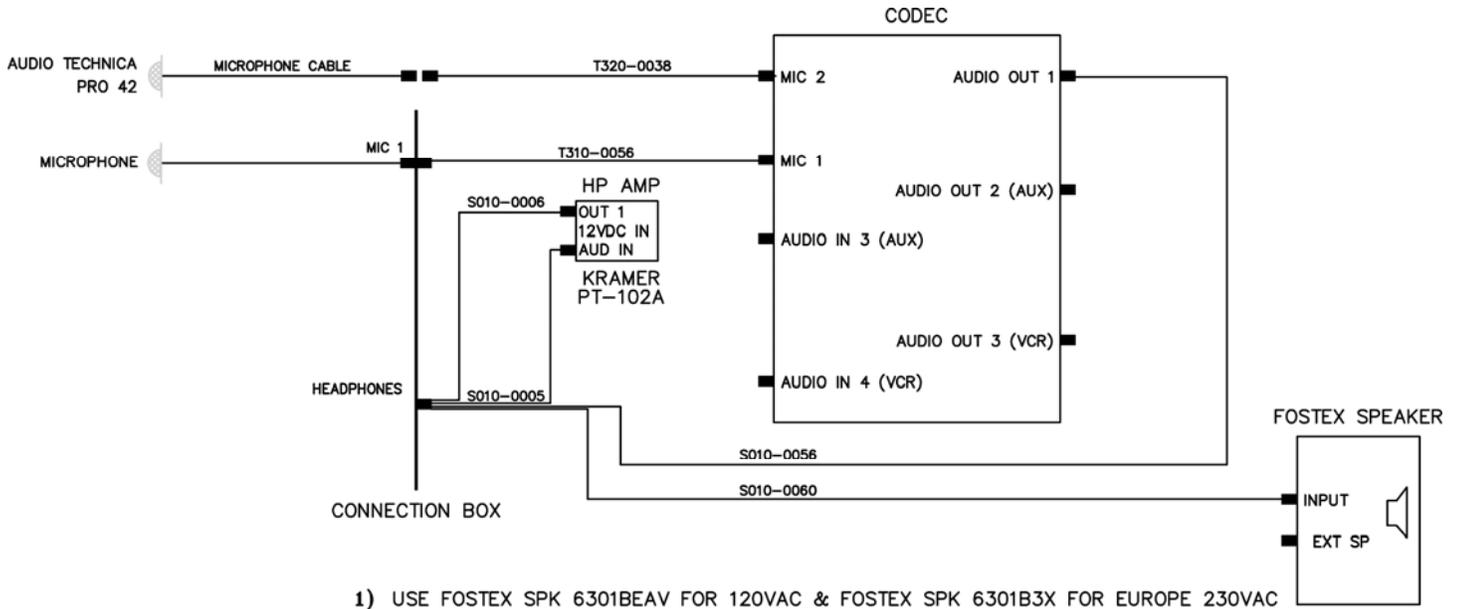


SCHEMATIC | NETWORK





1 THIS CABLE AND PHD CAMERA ARE SUPPLIED WITH EDGE CODEC OPTION ONLY

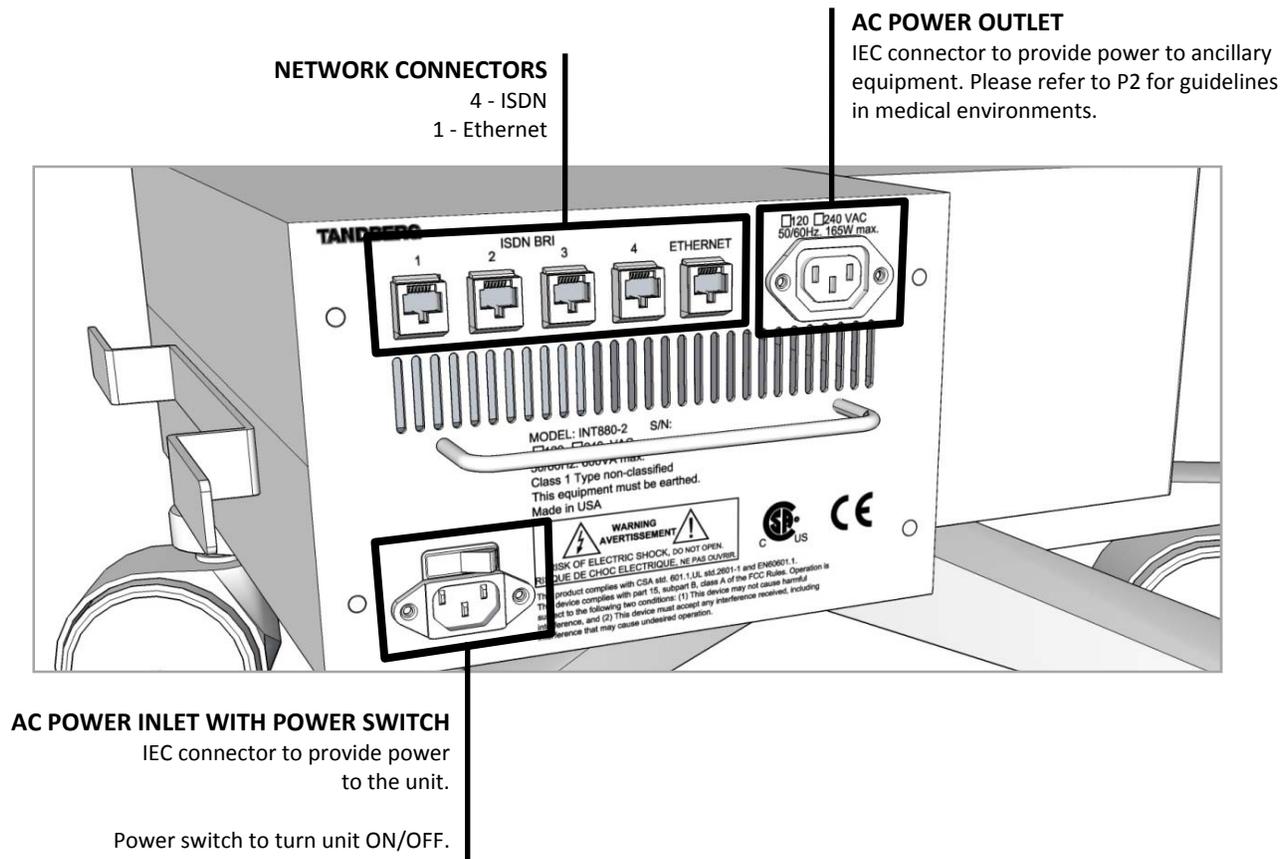


Powering Up the System

When all necessary connections have been made to the system, you may supply power and start-up the system:

- Connect AC power to the unit (AC Power Inlet) and power up the unit with the power switch at the base of the unit.
- The display should already be set to power-up when you switch the unit’s base on. If not, press the power button for the monitor to turn it on.
- Turn on the codec by pressing the power switch of the interface panel of the codec.

Be sure to provide the necessary network connections to the system in order to make video calls.



HEADPHONE (1/4")

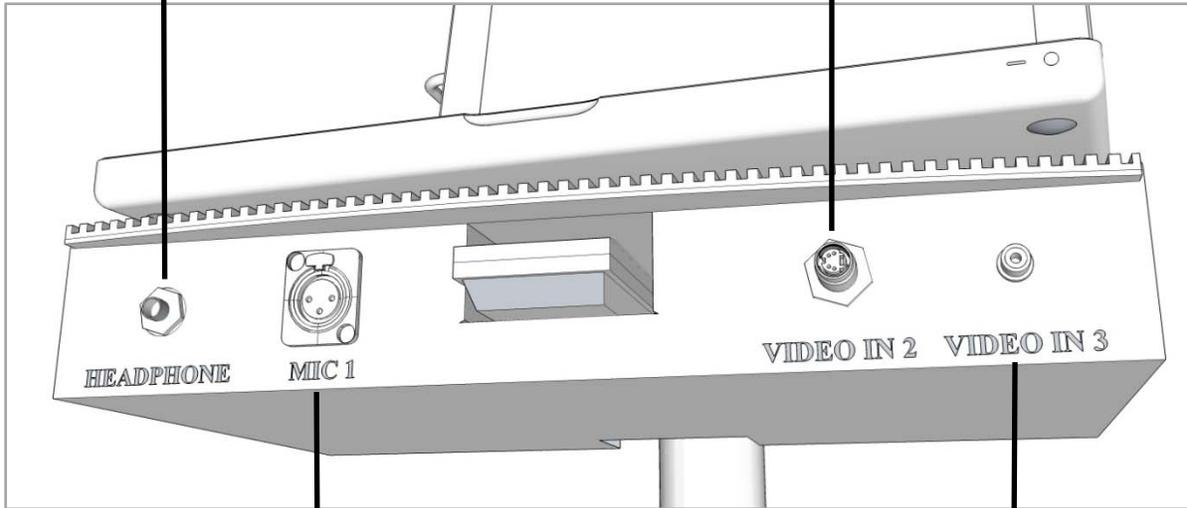
When a 1/4" plug is inserted the headphone jack will redirect the audio from the speaker to the headphones for privacy. No audio will be heard from the system's speaker.

VIDEO IN 2 (S-VIDEO)

Use this connector to incorporate an auxiliary video source.

VIDEO IN 2 corresponds to the AUX input on the codec.

Switch to this source using the AUX quick key on the TANDBERG Remote Control.



MIC 1 (XLR)

Add a second microphone to compliment and extend the coverage of the integrated microphone atop the display.

VIDEO IN 3 (RCA)

Use this connector to incorporate an auxiliary video source.

VIDEO IN 3 corresponds to the DOC input on the codec.

Switch to this source using the DOC CAM quick key on the TANDBERG Remote Control.

QUICK KEYS

The quick keys on the TANDBERG Remote Control allow you to toggle between available sources.

Refer to the TANDBERG codec documentation for details on how to use the TANDBERG Remote Control and /or custom configure the quick keys.



INSTALLING TANDBERG INTERN MXP STORAGE KIT OPTION

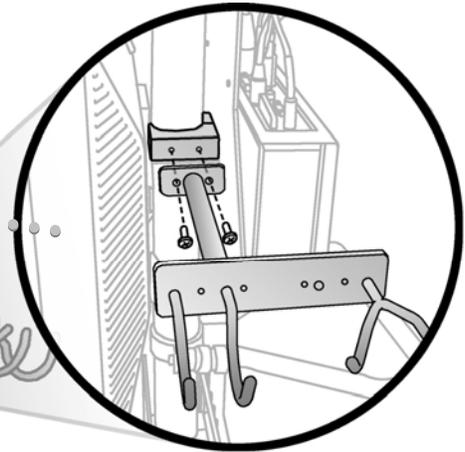
The OPTIONAL Storage Kit is not included with the standard unit. This kit is purchased separately.

STEP 1

Use two (2) **8/32 x 5/8"** Pan-head Phillips screws to mount the **SCOPE HOLDER** to the pole collar behind the display.

You can mount the holder on either side of the Intern MXP

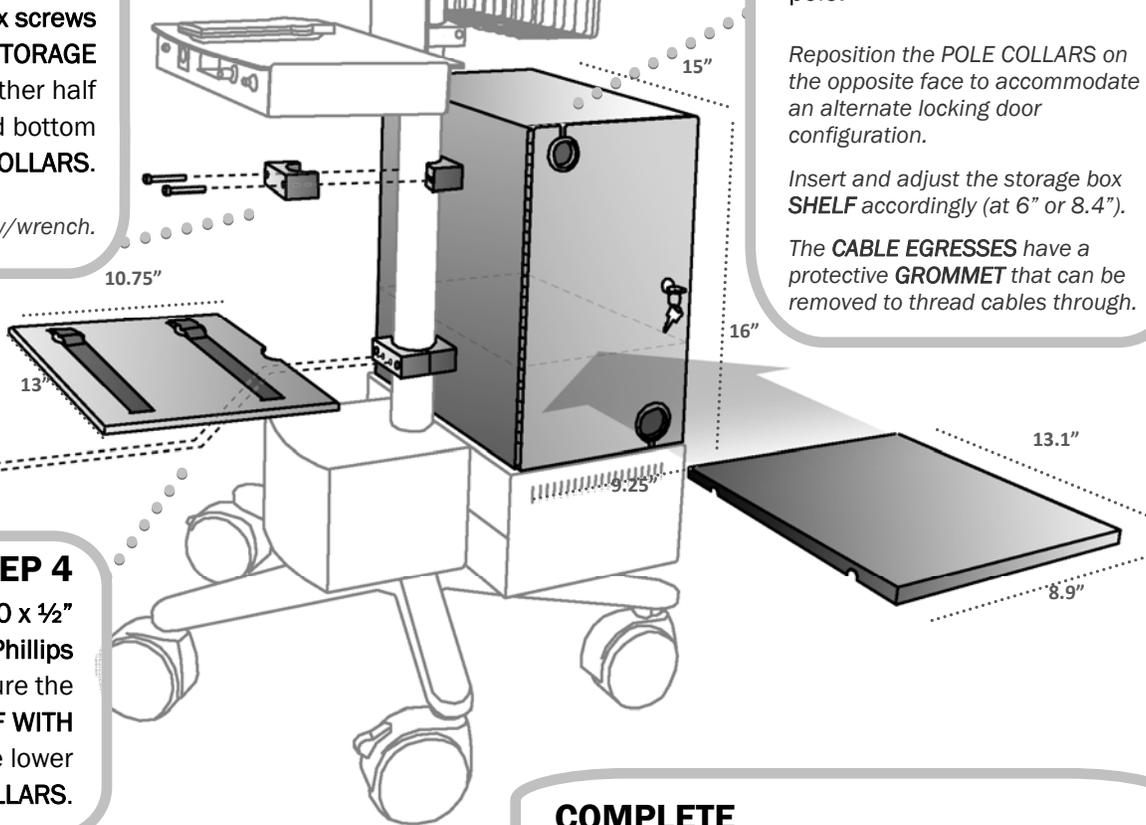
The hooks can be repositioned as needed.



STEP 3

Use the **1/4-20 x 1 3/4"** Socket-cap Hex screws to secure the **STORAGE BOX** with the other half of the top and bottom **POLE COLLARS**.

Use 3/16 hex key/wrench.



STEP 2

Place the **STORAGE BOX** atop the electronics module at the base of the Intern MXP with the **POLE COLLARS** flush to the pole.

Reposition the POLE COLLARS on the opposite face to accommodate an alternate locking door configuration.

Insert and adjust the storage box SHELF accordingly (at 6" or 8.4").

The CABLE EGRESSES have a protective GROMMET that can be removed to thread cables through.

STEP 4

Use the **10/32-20 x 1/2"** Round-head Phillips screws to secure the **FRONT SHELF WITH STRAPS** to the lower **POLE COLLARS**.

COMPLETE

Congratulations! You have successfully integrated the TANDBERG Intern MXP Storage kit.