

Unpacking and Inspection

Each unit is shipped factory tested. Ensure all items are removed from the packing container prior to discarding any packing material.

Thoroughly inspect the unit for shipping damage with particular attention to connectors. If there is any sign of damage to the unit or damaged or loose connectors contact your distributor immediately. Do not put the equipment into service if there is any indication of defect or damage.

Proper Cable Layout Design/Fiber Loss Budget

Before installing make sure that you have the proper cable layout for the project including:

1. The CAT cable per 568 standards for video drops
2. The layout is especially important for the coax cascade as it can be done with different designs, some which might not be optimum. **IT IS RECOMMENDED THAT YOU USE THE FREE Z-BAND DESIGN SERVICE. Z-BAND WILL PROVIDE A DRAWING WITH THE RECOMMENDED BACKBONE CABLE DESIGN**
3. [Make sure that you fiber loss budget allows for the proper level at each fiber drop.](#) **Z-Band will assist the customer with calculating and proper equipment for the design.**

Required Equipment for Installation

Installing a Distribution ZHC requires the following:

1. Standard Rack Mounting tools
2. Field RF Meter capable of measuring levels and signal quality. **(Z-Band can assist with evaluating or procuring the proper equipment).** A proper installation cannot be done without out the appropriate meter! Z-Band can be of minimal help in diagnosing issues without a meter on site.
3. If a fiber backbone is used, a Fiber Level Meter is again strongly recommended.

SDWHOOOLWH Set-up

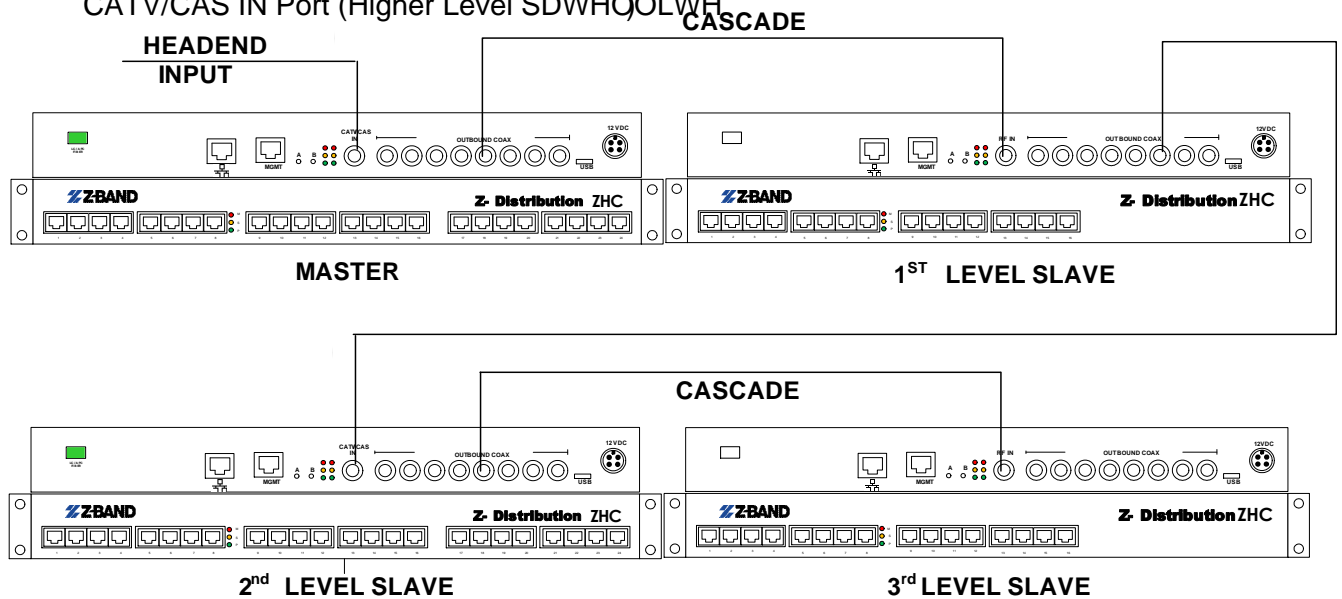
All SDWHOOOLWH are cabled the same way using coax RG6 or RG11 for back bone. The following section describes the CASCADE features of the Distribution ZHC.

CASCADE TOPOLOGY

The MaLQ unit produces a 35 dBmV, 1kHz tone at 870 MHz and injects it into the RF stream coming from the Outbound Coax. The connected downstream unit detects the tone from the MaLQ which sets the unit to SDWHOOOLWH. The SDWHOOOLWH then measures the tone and automatically adjusts its internal attenuators and slopers to produce the proper RF output levels for the unit.

Cascades can go 4 levels deep, MaLQ to 3 Levels of SDWHOOOLWH

All cascades go from an OUTBOUND COAX port (MA,1 or Lower Level SDWHOOOLWH) to the CATV/CAS IN Port (Higher Level SDWHOOOLWH)

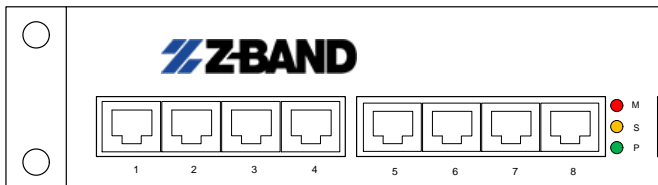


The distance between units can be up to 400' when using RG6 cable and 600' when using RG11 cable.

Always try and design to keep the lowest level Cascade. Example: Closet has the MA,1 and 3 SDWHOOOLWH units. The proper way to Cascade is to take 3 feeds from the Outbound Coax on the MA,1 and Run one to each of the 6 SDWHOOOLWH. wrong way is to go from the MaLQ to Level 1 SDWHOOOLWH, from Level 1 SDWHOOOLWH to Level 2 SDWHOOOLWH, Level 2 SDWHOOOLWH to Level 3 SDWHOOOLWH.

SATELLITE SET-UP

1. Perform the same procedure for each closet
2. Make sure that the Main is set-up and functioning correctly.
3. Make sure that Coax from Main or lower level cascade(s) are connected
4. Always start with the lowest level cascade in the closet. Power just that unit. When first powered all 3 LED's on front Panel come on. Within 30 sec's the top RED LED will go off and only the Yellow and Green LED will be lit. This indicates the unit is in Satellite.

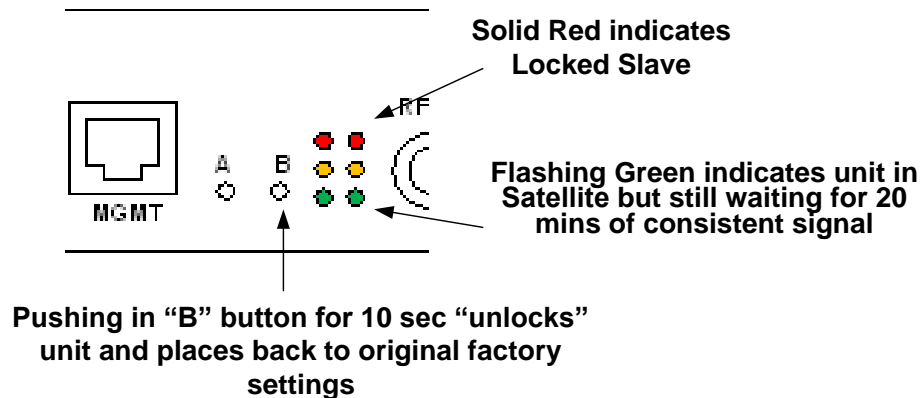


- When powered all 3 LED's on
- After ~30 secs RED LED off
- Unit is now on Satellite

FRONT PANEL

5. The unit will remain unlocked until the unit has measured a steady tone for ~20 mins. This is indicated by a flashing Green LED on the rear of the enclosure.

REAR OF ENCLOSURE



6. When the unit has detected a steady tone for 20 minutes the unit will lock, as indicated by a solid RED LED on the rear of the enclosure. A locked unit will stay in Satellite, retaining the output setting that it has established, even thru Power cycling. If the set-up needs to be

changed, the pin button, labeled “B” on the rear of the enclosure must be pushed in for ~10 sec’s. This will unlock the unit and place it back to its original factory settings.

- 7 . Repeat this procedure for the next higher satellite level, if necessary.
- 8 . **If the next highest Satellite level is in a different closet, make sure to bring up the closet with the lower Satellite level first**

Contact Us:

If issues arise while performing the install, please contact Z-Band. We will be glad to assist. The number is: 717.249.2606 and press 2 for Engineering.

Our business hours are:

8:30-5:00 Eastern Time, Monday-Friday.