

## IDU (Indoor Unit) Tune up procedure Installation

IDU can be placed on the supporting structure like a desk or installed on the interior wall. If choose to install on the wall, fallow instruction below. Then connect cables from each of TX, RX patch antennas to IDU as described in this manual. Please note that all the procedure must take while power is off.

### 1.1 Fixing

At first, using the M12 Anchor bolts, install GIR-2005 Chassis bracket into the wall Bracket that is fixed to the wall in Figure 3-1. And then, using M4 bolt, assemble GIR-2005 with Chassis bracket and wall-bracket.

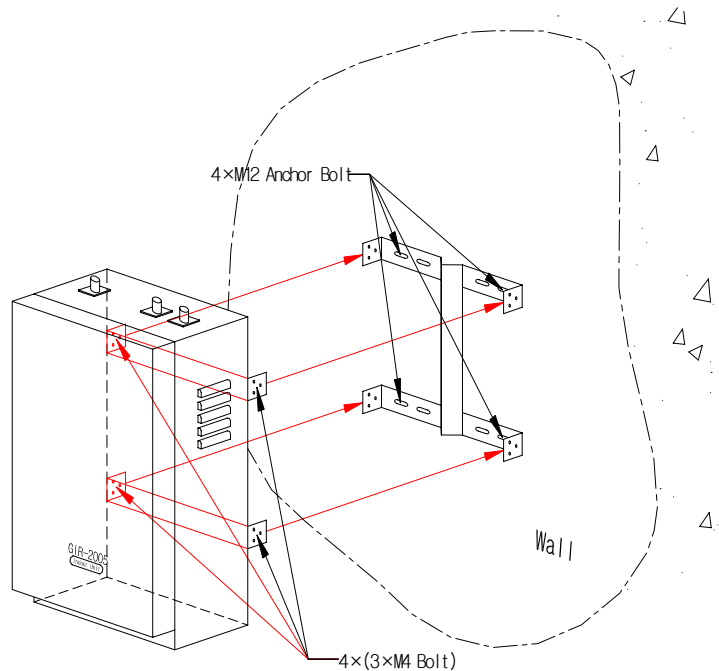


Fig. 3-1 Assemble Wall Bracket with GIR-2005 Chassis Bracket

## 1.2 Grounding

After GIR-2005 Indoor Unit is fixed to the wall, using 14 Square Cable put the ground post of GIR-2005 chassis to the earth where has good conductivity.

Refer to the figure below.

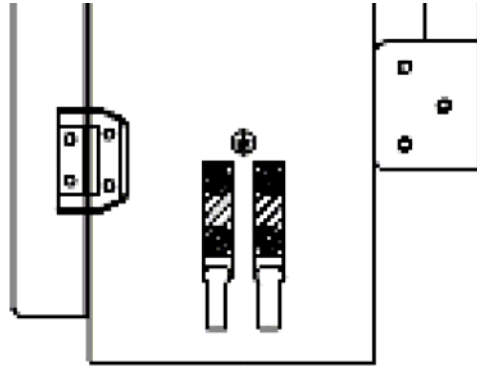


Fig. 3-2 GIR-2005 Grounding

## 1.3 Connecting Internal antenna with cables

Place GIR – 2005 indoor antenna close to the ceiling and far from the window of inside the building. Antenna direction is recommended to face to wall side not to window side to minimize coupling between Indoor and outdoor antenna. Install the each of indoor patch antennas at the right and left side of the Indoor Unit. Do not exceed 3 meter for the distance between IDU and indoor patch antenna each. Connect TX/RX cables from antenna to IDU.

## ODU (Outdoor Unit) Tune up procedure Installation

Place ODU outside of building with no visible obstacle in front of ODU.

Follow the instruction below to install ODU on the proper place, install external antenna, and connect cables between antenna and ODU as well.

Refer to the figure 3-3 below.



Fig. 3-3 GIR-2005 ODU Installation

### 2.1 Fixing

Outdoor Unit either can be installed to the wall or mast Pipe. If you select a wall to fix, do same as what you did with Indoor Unit. If you select a mast pipe to fix, first find the solid structure and fix the 20~30mm diameter pipe to

it, and assemble ODU to the pipe using a wall and pipe bracket.

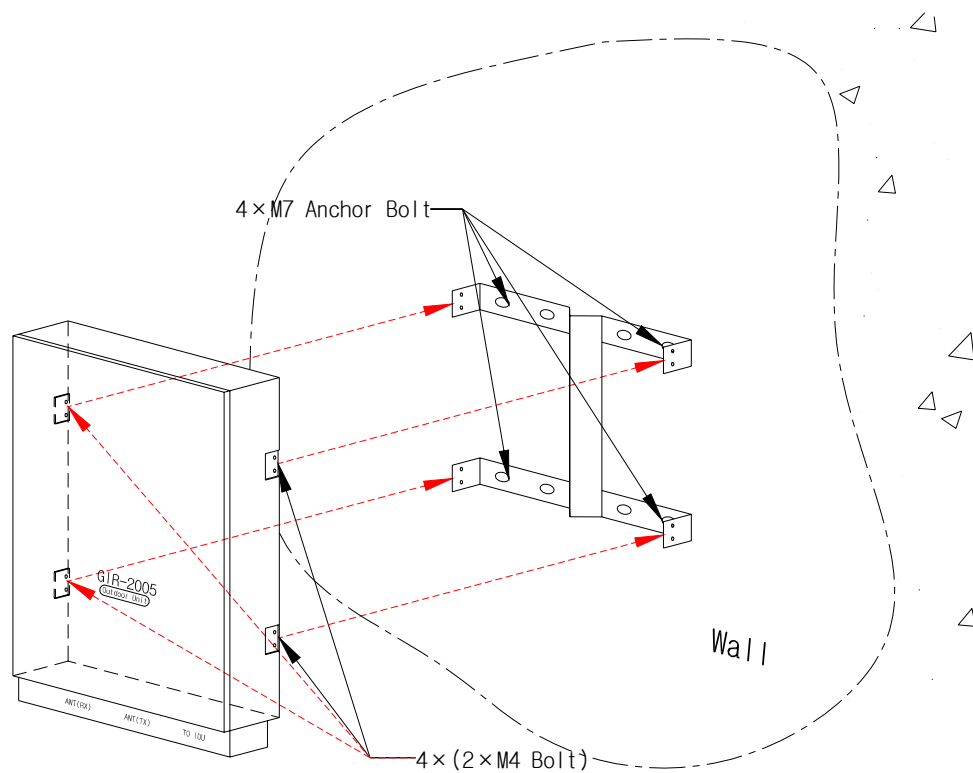


Fig 3-4 Outdoor Unit Fixing to the wall

## 2.2 Grounding

After GIR-2005 Outdoor Unit is fixed, should ground it using 14 Square Cable connected to the grounding post of GIR-2005 chassis and earth where has good connectivity.

## 2.3 Connecting Internal antenna with cables

Connect cables with TX/RX making to relevant place of ODU using specified cables like figure from each of TX RX patch antennas to IDU like figure 3-5. Please note that all the procedure must take while power is off.