

Signal Repeater..I

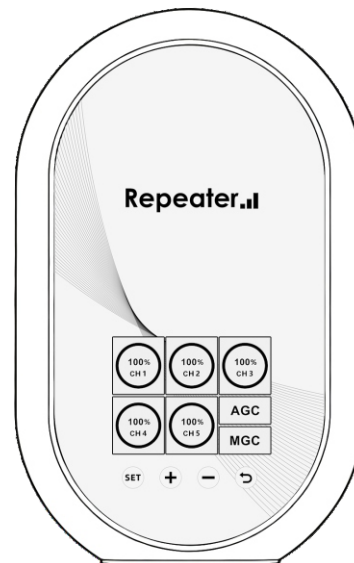
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USER MANUAL

Mobile phone signal booster



PRODUCT DISPLAY



Booster



**15M-LPDA
Outdoor Antenna**



**Indoor Antenna
(Optional)**



Indoor
antenna
interface

Power
interface

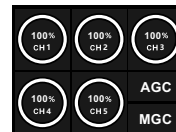
Outdoor
antenna
interface

Function description of each component:

Signal strength: The more signal bars on the screen light up, the stronger the signal.

AGC: Automatic Gain Control

MGC: Manual Gain Control



PRODUCT SPECIFICATIONS

Power Supply	DC 5V
Impedance	50 ohm
RF Connector	2*SMA
Dimensions (D*W*H)	270*166*55 (mm)
Cooling Mode	Heatsink Convection cooling
Net Weight	0.4KG
Installation Type	Display/Wall Mount
Humidity	10~90%
Operating Temperature	-25°C ~ +55°C

INSTALLATION STEPS

1. Outdoor antenna (15m cable, SMA)

Mount where signal ≥ 3 bars. Connect to booster "OUTDOOR" port. Tighten + waterproof tape.

2. Wall-mount antenna (5m cable, SMA)

Mount in extended coverage area. Connect to booster "INDOOR" port.

3. Check separation

Verify both distances above. If any fails $\rightarrow$ reposition outdoor or wall-mount antenna.

4. Power on

No red ! (top left corner) $\rightarrow$ OK.

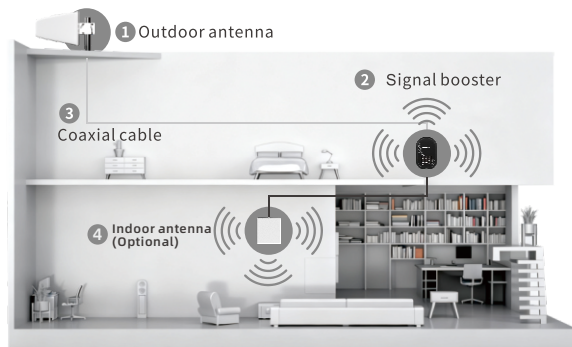
Red ! appears $\rightarrow$ power off, re-check separation.

▲ IMPORTANT - Antenna Separation

To avoid oscillation, keep outdoor antenna **away from EACH indoor antenna**:

Antenna Pair	Horizontal	Vertical	Straight
Outdoor $\leftrightarrow$ Booster (built-in)	$\geq 10m$	$\geq 6m$	$\geq 12m$
Outdoor $\leftrightarrow$ Wall-mount (5m cable)	$\geq 10m$	$\geq 6m$	$\geq 12m$

If **either** separation fails $\rightarrow$ Do NOT use wall-mount antenna. Use booster only.



④ (You can choose to add an indoor antenna for signal coverage.)

OUTDOOR SIGNAL DEFINES INDOOR

INSTALLATION CORRECT&INCORRECT



1-2 Bars

Poor connection, calls may drop

$RSRP \leq -95 \text{ dBm}$ or $SINR \leq 3 \text{ dB}$



3-4 Bars

Stable connection

$RSRP \geq -90 \text{ dBm}$ & $SINR \geq 5 \text{ dB}$



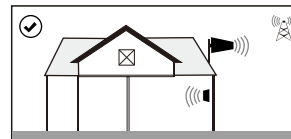
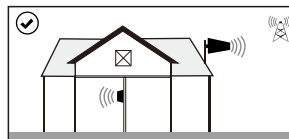
4-5 Bars

Optimal performance

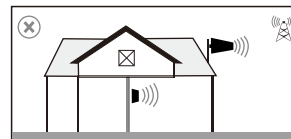
$RSRP \geq -85 \text{ dBm}$ & $SINR \geq 10 \text{ dB}$



1. Point to the tower
2. Antennas back to back
3. One or two wall barriers, make sure vertical distance enough



1. Not pointing to the tower
2. Two antennas facing the same direction
3. Vertical distance might be not enough



▲ Please Note:

The loop back from the outdoor antenna to the indoor antennas will reduce the gain, so the principle is to keep the maximum booster gain is to avoid the loop back from the outdoor antenna to the indoor antennas.

FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device must operate with a minimum distance of 20 cm between the radiator and user body.

This is a CONSUMER device.

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from any person.

You **MUST** cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device may be operated **ONLY** in a fixed location for in-building use.

Register Your Booster

Need register your booster with your wireless provider, just search your wireless provider and signal booster registration on Google, then fill in your address, the Model number and FCC ID, and done. See more details at the following websites:

- Verizon: <http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html>
- AT&T: <https://securec45.securewebsession.com/attsignalbooster.com>
- T-Mobile: <https://support.t-mobile.com/docs/DOC-9827>
- Sprint: https://www.sprint.com/legal/fcc_boosters.html
- U.S. Cellular: <http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

QUESTION & ANSWER

Q1: No signal improvement after installation

1. Check outdoor signal (app): RSRP & SINR must meet requirements on previous page.
2. Confirm the frequency band matches your booster model.

Q2: Full bars but can't call / signal worse / one-way audio

Check antenna separation:

1. Outdoor antenna must be $\geq 10\text{m}$ horizontal OR $\geq 6\text{m}$ vertical OR $\geq 12\text{m}$ straight from EACH indoor antenna (booster built-in & wall-mount).
2. Outdoor and indoor antennas should NOT be on the same horizontal or vertical line.

★ If problem persists, unplug the wall-mount antenna and test. If ok, move wall-mount antenna farther from outdoor antenna.

NEED HELP? amzsales56@outlook.com

Better Signal for Better Life

If you have any queries about our products, need to exchange, or require a satisfactory solution, please contact us.



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SUCCESS COURIER SL

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Madrid, 28947 Spain

successservice2@hotmail.com

List of authorized antennas, cables, and cable loss:

	Name	Model	Gain/Loss	Photo
Outdoor Antenna	Log Periodic Antenna	ODS-10SJ-70/270	Gain: Cellular: 0dBi Lower 700 MHz: 0dBi Upper 700 MHz: 0dBi Broadband PCS: 1.8dBi AWS-1: 1.8dBi Cable loss: Cellular: 0.5dB Lower 700 MHz: 0.5dB Upper 700 MHz: 0.5dB Broadband PCS: 1.0dB AWS-1: 1.0dB	
Indoor Antenna	Ceiling Antenna	OBG-10SJ-70/370-5	Gain: Cellular: 0dBi Lower 700 MHz: 0dBi Upper 700 MHz: 0dBi Broadband PCS: 1.8dBi AWS-1: 1.8dBi Cable loss: Cellular: 0.5dB Lower 700 MHz: 0.5dB Upper 700 MHz: 0.5dB Broadband PCS: 1.0dB AWS-1: 1.0dB	

1) Warning: The Inside Antennas for fixed installations must have 6 feet of separation distance from all active users.

2) Warning: The Outdoor Antennas/Indoor Antennas for fixed installations must be installed no higher than 10 meters above ground.

3) Warning: Unauthorized antennas, cables, and/or coupling devices are prohibited by FCC rules. Please contact FCC for Details: 1-888-CALL-FF.

4) Warning: The antenna, cable, and other accessories of the booster kits shall not be modified without the approval of the party responsible; otherwise, it shall be deemed invalid.