

LCD – 5" full colour touch

The LCD allows users to easily read the repeater diagnostics, control the gain of each band, turn on/off any band, and easily allows for general configuration.

Main Page

Downlink signal power

Band is Active. Frequency

No issues

Band is self optimizing.

Strong outdoor signal. No action required as the repeater will self optimize.

Indoor and outdoor antennas are too close to each other. Separate them more.

External signal is too strong and band has shut down. Add manual attenuation.

Band has automatically turned off due to very high downlink (DL) power.

Long press to reboot: This is similar to plugging out and in mains power.

Short press to reset: This just rebalances the levels.

Repeater
Serial: 2200.E
Status: Connected

Internet status

dB Page

Uplink (UL) power received by the amplifier. (Power emitted by the phone)

DL power from the operator, received by the amplifier.

UL Automatic Gain Control (AGC) – starts when UL power limit is reached

AGC for UL and DL when the operator's signal is strong.

When outdoor signal is very strong, gain is reduced for an extended time.

Add extra attenuation to high or low bands.

Add attenuation to any band individually.

Sum of total AGC on the DL. This value can be used in FloorPlanner tool.

Blue box - band is active

Yellow box - strong uplink from phone.

Frequency (MHz)	700	800	900	1800	2100	2600
UL Power (dBm)	2	2	2	2	2	2
DL Power (dBm)	4	4	4	4	4	4
UL Fast AGC (dB)	0	0	0	0	0	0
AGC (dB)	0	0	0	0	0	0
UL Reduced Gain (dB)	0	0	0	0	0	0
DL Reduced Gain (dB)	0	0	0	0	0	0
Clamp (dB)	0	0	0	0	0	0
Group Atten (dB)	0	0	0	0	0	0
Manual atten (dB)	0	0	0	0	0	0
DL Total Loss (dB)	0	0	0	0	0	0

Toggle Band Page

Switch On/Off band

1-Use high and low group attenuator to control either the low bands 700/800/900 and/or the high bands, 1800/2100/2600.

Use these group attenuators to first control very strong signal. Then, make fine adjustments with the individual attenuators.

2-After using group attenuators, use these individual attenuators to do fine adjustments per band.

Other LCD features

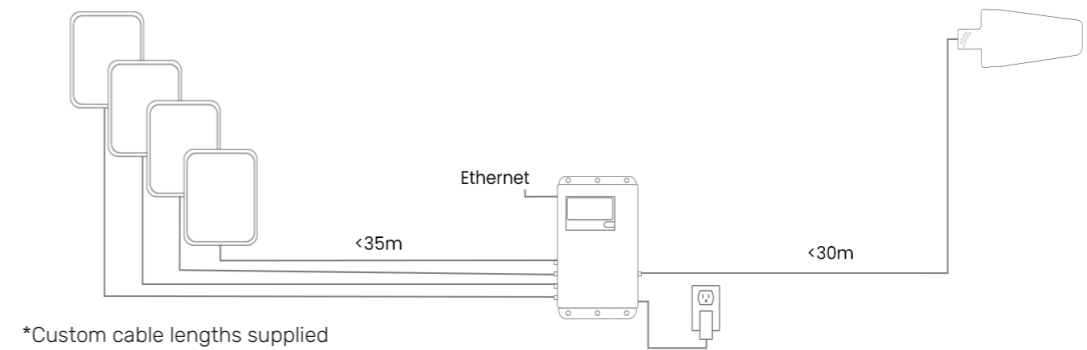
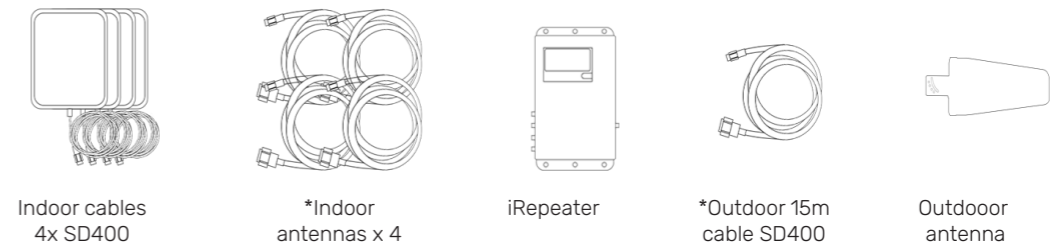
PIN Access	A secret PIN can lock out access to the LCD display. The PIN is set on the clients account on the platform. Default PIN 888888,
Internal location	Enter a note about the amplifier. This note is sent and displayed on the stellacontrol inventory page. E.g. Internal location of the amplifier.

Quick installation and user manual

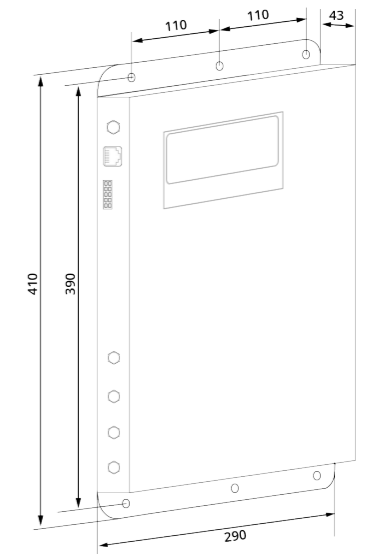
Snap QR code to visit Installer Zone for more installer resources.



Contents of the kit



Dimensional Drawing(mm)



This manual is for the following models

Model	Bands	Ports	PSU	Weight	Dims cm
iR4-LGDW*	B20,B8,B3,B1	2	12V,5A	1.6kg	27X29X3.8
iR5-EU	B20, B8, B3, B1, B7	4	12V,5A	2.8kg	43X30X3.8
iR6-EU	B28, B20, B8, B3, B1, B7	4	12V,5A	2.8kg	43X30X4.8
iR5-US	B28, B4, B5, B25, B7	4	12V,5A	2.8kg	43X30X4.8

*The iR4 has only 2 ports for 2 internal antennas.



Step-by-step installation instructions

1-Survey

Before starting the installation, conduct call and data speed tests outside the building to understand the available signal in your area. For the required mobile operators note:

- Call quality. (do you experience dropped voice calls?)
- Data speeds up and down.
- Signal strength (signal bars or dBm)
- Band (only available on android phones)
- Service: H+/4G/5G

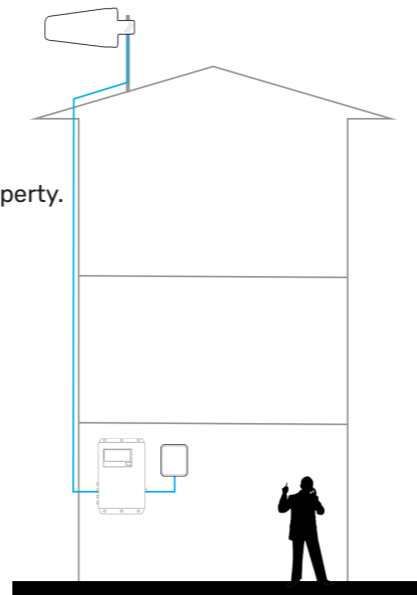
Whatever signal is available outside your property, a repeater will distribute inside the property. For android phones, the app, **Network Cell Info Lite** is recommended.

2- Outdoor antenna placement.

On the roof, point the outdoor antenna towards the nearest cell tower. This nearest, most suitable cell tower can be either seen by eye or located using on-line tower maps.

When the best direction is found, loosely fasten the antenna to a pole.

The Yagi should be clear of all nearby obstructions, like metal railings or other roof structure.



3- Loose installation

Loosely drop the 15m SD400 cable from the outdoor antenna to a location inside the building where call tests can be conducted. Attach this cable to the repeater and power on the repeater. On the LCD, pay attention to the signal bars for each frequency. 4,5 or 6 signal bars signifies a good signal at that frequency.

Next, attach one of the inside antennas to the repeater and point it into the room.

4- Call and data tests

Do call and data tests for each mobile operator. The tests should be comparable to those tests conducted outside the property.

Once satisfied with the results, fasten the outdoor antenna and install the cables permanently.

5- StellaControl - Remote monitoring

Connect the iRepeater to a live ethernet connection. Log onto your stellacontrol account.

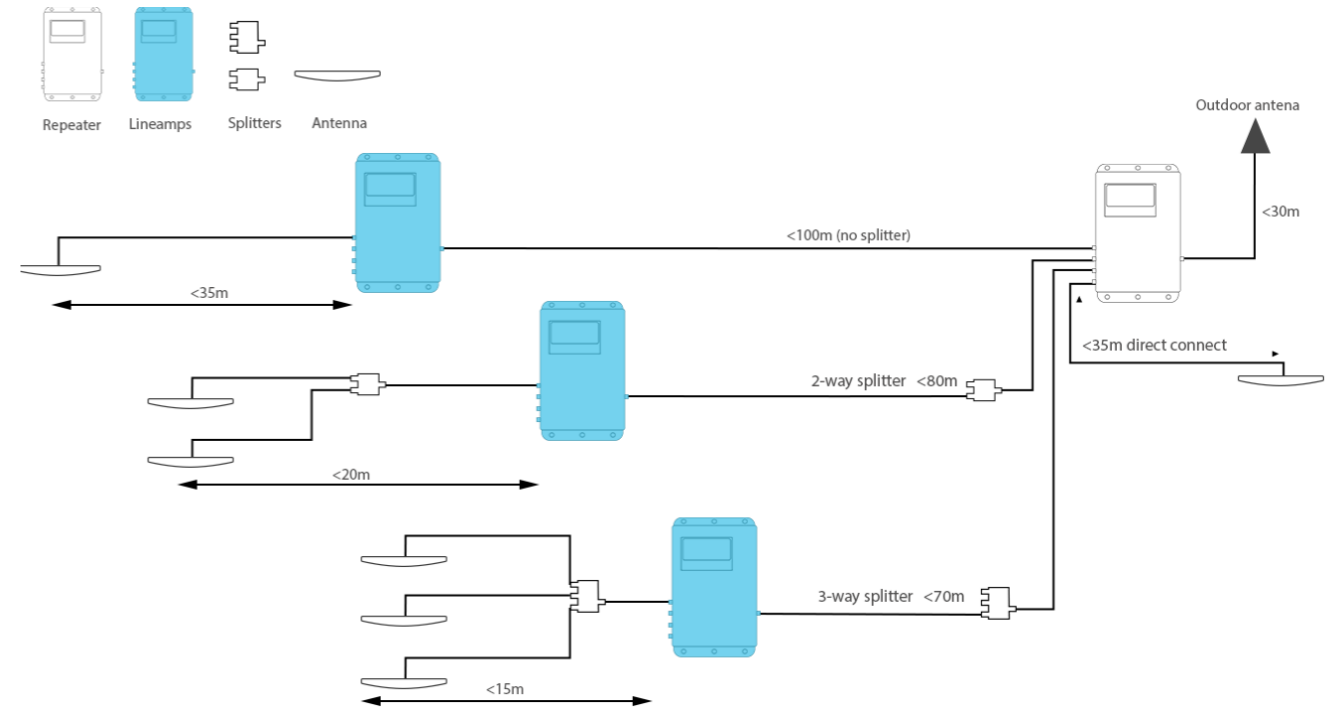
Manage, monitor and control all your iRepeaters from the cloud.

To learn more snap the QR code.



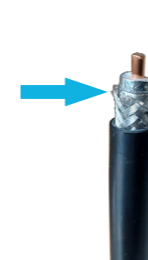
Add lineamps for more coverage.

For larger buildings, lineamps and splitters can be installed after the repeater. This allows extending the signal a further 100m into the building. See cable length rules below.



Cable Assembly

Self assembly of cables. Pay careful attention to the N-connectors.



The silver braid must be long. Braiding must not touch centre pin. Check Carefully.



Braid must overlap with the collar of the connector. This is what holds the connector in place.



Centre pin must be level with the steel collar. Not pushed inside.