



TRIAX



connecting the future



TRIAX Cast

Entertain guests with their own content
Happy guests guaranteed

triax.co.nz



Easy to install, privacy focused

Install and configure TRIAX Cast in a flash, using Google Chromecast's securely attached to each TV with the TRIAX CastLock, protecting it from theft and tampering.

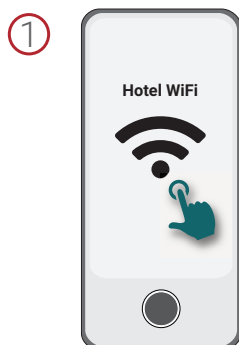
Via the unique information displayed on the in-room TV, a private and secure connection is established to the guest's device via the TRIAX Cast server.

Guest privacy is assured, with every session unique to the guest, their room, and their device, and terminated at checkout.

Cast away, just like home

As easy as 1, 2, 3:

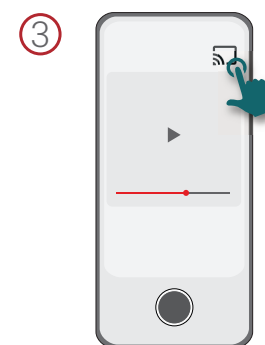
Connect to
hotel WiFi



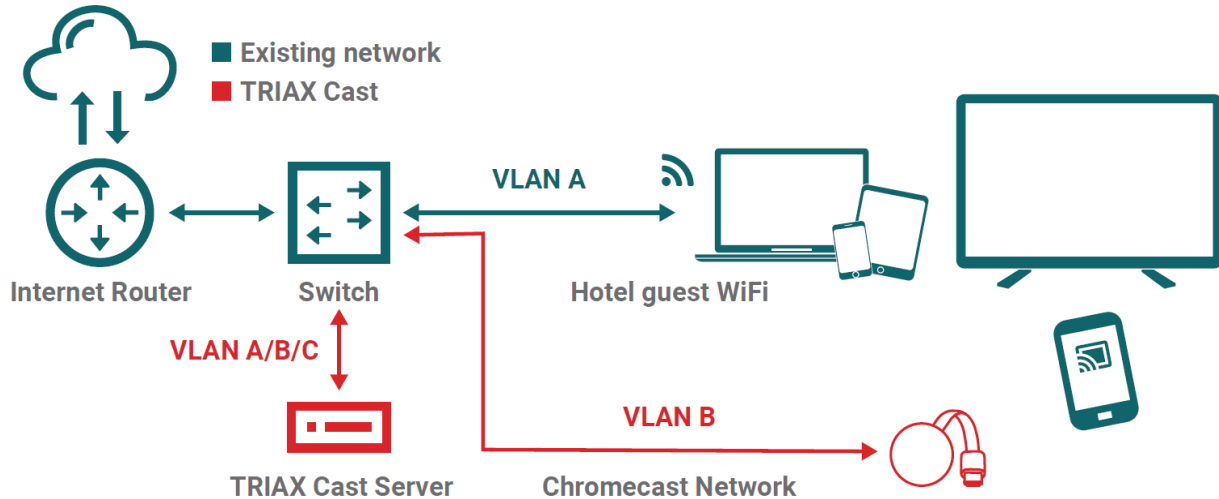
Scan QR code to
connect to Chromecast



Open your preferred app
Tap the **cast** icon



Simple system setup – easy to install



What's in the box?

TRIAX Cast server



- Robust, reliable and well proven platform
- Slim and space saving
- Optional 1U 19" bracket for rack mounting

TRIAX Cast software



- In-house developed software
- Enables intuitive, privacy-focused dependable casting experience
- Easy to configure
- Easy to manage

Google Chromecast



- Standard Google Chromecast
- Securely attached to TVs of any kind

TRIAX CastLock



- Device to protect the Google Chromecast from theft and tampering
- Chromecast unit locked inside the CastLock
- CastLock secured to the TV with a wire



Let's talk connectivity

A successful casting solution requires a suitable network infrastructure

- The demands of casting expose weaknesses in the existing setup
- Poor user experience leads to guest complaints
- Can lead to costly installation surprises required to maintain Quality of Service
- Is your network suitable for casting?



Wi-Fi Requirements

Although the wired connection is better to guarantee good connectivity to the Chromecast devices, there are some places where the Wi-Fi connection is the only option. In case of a Wi-Fi connection for the Chromecast, the recommendations are:

1. The Wi-Fi signal on the Chromecast must be stable and should not drop below an RSSI of -65dBm
2. The Wi-Fi signal-to-noise ratio on the Chromecast should never be less than 18dB

Bandwidth Requirements

Another important aspect to consider for a good casting experience is the available bandwidth for the Chromecast in the room. A good capacity internet connection and good QoS strategy are highly recommended. The following table are provided as guidelines to calculate the expected average bandwidth according to the number of rooms and occupation.

| Service | Needed for non HD | HD | Full HD |
|--------------|-------------------|--------|---------|
| Netflix | 3 Mbps | 5 Mbps | 25 Mbps |
| Amazon Prime | 0.9 Mbps | 4 Mbps | 25Mbps |
| YouTube | 2.5 Mbps | 4 Mbps | 15 Mbps |

Network general requirements

1. Network packets must use 802.1Q VLAN tagging.
2. The VLAN ID must be unique for each network segment.
3. The TRIAX Cast Server must be connected to a trunk port that belongs to the three VLAN's
 - VLAN A:** Chromecast Network (tagged)
 - VLAN B:** Guest Network (tagged)
 - VLAN C:** Management Network (untagged)
4. The Chromecast Network must have internet access
5. The Guest Network must have internet access
6. The Management Network must have internet access
7. All networks must be able to send multicast packets in the form of mDNS (224.0.0.251 using port 5353).
If second generation Chromecast's are used then the SSDP protocol must also be enabled (239.255.255.250 using port 1900).
8. There must be no Layer 3 routing between the guest network, the Chromecast network and the management / gateway control network.
9. There must not be isolation between the gateway, the Chromecasts and the guests that limits the communication with the TRIAX Cast Server.
10. These networks should be isolated from every other device network. No traffic should be allowed to pass.
11. There must be no Layer 3 routing between any device and the TRIAX Cast Server.
12. The network must be DHCP enabled and all Chromecast devices and guest devices must get an IP address from the DHCP Server.
13. There must be no device isolation functions preventing the TRIAX Cast Server from communicating directly with devices on the guest or Chromecast network or preventing the devices communicating with the TRIAX Cast Server. The TRIAX Cast Server must be white-listed on the network if access control is enforced by an access control gateway or by other means.
14. Any kind of ARP Proxy MUST be disabled or the server must be exempted from any ARP Proxy replies.
15. The devices on the network must be isolated from each other to prevent any cross talk.



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More information:

[Hospitality Casting – TRIAX](#)

Contact:

www.digitalimports.co.nz

+64 3 344 5417

sales@digitalimports.co.nz