



Straight Forward Technology

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 2/15 Suffolk St Capel Sound 3940

 Straight Forward Group Pty Ltd: ABN 78643385184.

Security, WiFi & Intercom Upgrade

Client

Julian Kosloff

Location

Not specified

EXPIRED

Expired: 19/12/2025

Quote

Job Number

JN3746

Expiry: December 19, 2025

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QUOTE SUMMARY

Comprehensive security and connectivity upgrade for ground floor St Kilda apartment. 4-camera CCTV system with NVR and UPS backup, 5x hardwired TP-Link Omada WiFi 6 access points replacing mesh system, Aiphone GT-1C7W touchscreen intercom upgrade. Stone wall construction addressed with strategic placement and PoE-powered infrastructure.

OPTIONAL EXTRAS

ITEM	PRICE	STATUS
NBN Upgrade Setup - REQUIRED WITH SUBSCRIPTION	\$220	Selected
Wider Trunking for Power Cable Neatening	No charge	Selected

SUBSCRIPTIONS

SUBSCRIPTION	INVESTMENT	STATUS
Aussie Broadband Internet - REPLACES YOUR EXISTING NBN BILL	\$110/month	Selected

LABOUR

\$3,294

MATERIALS

\$4,637

OPTIONAL EXTRAS

\$220

TOTAL

\$8,151



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ADDITIONAL INFORMATION

CUSTOMER DETAILS

Job Number: JN 3725 **Customer:** Julian Kosloff, Kosloff Architecture

Location: G02/34 Fitzroy Street, St Kilda (Ground Floor Apartment)

SUMMARY

This project transforms your ground floor apartment's security and connectivity infrastructure with a comprehensive upgrade designed specifically for the unique challenges of stone wall construction.

We'll install a **professional 4-camera security system** featuring WiFi cameras with battery backup at the front door and rear entrance, plus high-resolution **8MP wired cameras** monitoring the critical side entry points (the most vulnerable access areas). All footage records to a dedicated **Network Video Recorder with built-in UPS backup**, ensuring continuous protection even during power outages. Everything records locally – **no cloud subscriptions required** – your footage stays on-site under your complete control with no ongoing monthly fees.

The WiFi system receives a significant upgrade by replacing your current Google mesh setup with **five hardwired TP-Link Omada WiFi 6 access points**. This isn't just a simple swap – it's a complete transformation that properly utilizes your existing data cabling infrastructure. The stone walls that make WiFi challenging become a non-issue with strategically placed, enterprise-grade access points that deliver reliable coverage throughout your entire apartment. A critical advantage: these access points are powered via **PoE (Power over Ethernet)** through your existing data cables, meaning when connected to UPS backup, your **WiFi stays online during power outages**.

We're also upgrading your faulty Aiphone intercom unit to a modern **WiFi-connected touchscreen station**, allowing you to answer your door from anywhere using your smartphone via the Aiphone app.

Perfect Integration: Both your security cameras (VIGI) and WiFi system (Omada) are from TP-Link, meaning they work seamlessly together for centralized management and monitoring through a single platform.

Every camera includes **automatic LED lighting** for clear nighttime visibility, and the WiFi cameras feature compact battery backup units concealed within junction boxes for clean, professional installations. While we're at it, we'll **tidy up and professionally label everything** in your comms rack for easy future maintenance.

SECURITY CAMERA SYSTEM

System Overview

Professional 4-camera CCTV system with **Network Video Recorder** installed in your comms hub (back bedroom). All cameras feature **automatic LED lights** for 24-hour colour visibility, and the WiFi cameras include **battery backup protection** for uninterrupted operation during power outages. All cameras are **fully hardwired** back to the NVR for maximum reliability.

Front Door Camera



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Professional [VIGI C440-W 4MP WiFi camera](#) positioned right of the front door at approximately 2.2m height. Mounted on a **weather-resistant junction box** with power cabled from the room behind via a dedicated outlet. The battery backup unit is concealed inside the junction box for clean aesthetics. Cable runs use **16mm plastic trunking (black or white to match)** along the floor/wall junction creating a neat skirting-board appearance. Professional installation includes **full-length trunking on all spans** – no visible cable stops halfway along walls – ensuring a clean, continuous finish from start to finish.

Rear Entrance Camera

[VIGI C440-W 4MP WiFi camera](#) installed at the top of the rear stairwell. Power sourced from the nearby bulkhead housing heating/cooling equipment. Includes battery backup for continuous operation. Ideal for close-quarters monitoring of the rear access point.

Side Entry Cameras (Most Critical)

Two [VIGI InSight S485 8MP wired cameras](#) mounted side-by-side on the external wall near your son's bedroom, each looking in opposite directions. These cameras monitor the easiest break-in point and feature hardwired connections back to the NVR for maximum reliability and image quality. The 8MP resolution provides exceptional detail for identifying potential threats at this vulnerable location.



Recording & Power Protection

All cameras connect to a professional **Network Video Recorder** with built-in hard drive storage in your comms hub (back bedroom). Everything records locally – **no cloud subscriptions required**. Your footage stays on-site under your complete control with no ongoing monthly fees. The NVR includes a dedicated **UPS (Uninterruptible Power Supply)** ensuring continuous recording capability even during power failures. Access your camera feeds remotely via mobile app for real-time monitoring from anywhere.

Comms Hub Organisation

While installing the security and WiFi systems, we'll **tidy up and professionally label everything** in your comms rack (back bedroom). This includes organizing all cabling, labeling connections, and ensuring everything is documented for easy future maintenance and troubleshooting.



WIFI SYSTEM UPGRADE

Why Replace Your Mesh System?

Your apartment has excellent data cabling infrastructure already installed throughout, but your current Google mesh system isn't taking advantage of it. Mesh systems rely on **wireless connections between pods**, which means each hop degrades signal strength and performance. With your thick stone walls creating additional WiFi challenges, this wireless-relay approach struggles to deliver consistent coverage.

The solution? **Business-grade hardwired access points** that properly utilize your existing cabling. Instead of pods wirelessly relaying signals through stone walls, each access point connects directly back to your network via the professional cabling already in place.

The Upgrade: TP-Link Omada WiFi 6

We're installing five [TP-Link Omada EAP615-Wall WiFi 6 access points](#) strategically positioned throughout your apartment. These aren't consumer-grade devices – they're enterprise-level equipment designed for demanding environments.



Key Advantages

- **WiFi 6 Technology:** Latest wireless standard providing faster speeds, better performance with multiple devices, and improved efficiency in crowded environments
- **Hardwired Backhaul:** Each access point connects via your existing data cabling, eliminating the signal degradation inherent in mesh systems
- **Stone Wall Solution:** Multiple strategically-placed access points overcome the WiFi-blocking properties of thick stone construction
- **Integrated Ethernet Ports:** Each wall plate access point includes gigabit ethernet ports for direct wired connections where needed



- **Seamless Roaming:** Move throughout your apartment while devices automatically connect to the strongest access point without dropping connection
- **Professional Management:** Centralized control and monitoring through the Omada cloud platform
- **Perfect Integration with VIGI:** Both Omada WiFi and VIGI security cameras are TP-Link products, providing seamless integration and unified management through a single platform

Installation & Configuration

All five access points connect back to your existing comms hub in the back bedroom using the data cabling infrastructure already installed. This centralized approach provides superior network management and eliminates the trial-and-error pod placement required by mesh systems.

Critical Power Advantage: The access points are powered through **PoE (Power over Ethernet)** via a dedicated switch in your comms hub. This means power flows through the existing data cables in your walls. When connected to the UPS backup system, your **WiFi stays online during power outages** – a significant benefit that mesh systems can't provide. We'll configure everything for optimal coverage and performance throughout your apartment.

AIPHONE INTERCOM SYSTEM UPGRADE

The Situation

Your existing Aiphone intercom system has two indoor units, with one unit currently experiencing faults. Rather than simply replacing the faulty unit with an identical model, we're upgrading to modern WiFi-connected technology that transforms how you answer your door.

The Solution: Aiphone GT-1C7W

The **Aiphone GT-1C7W** is an app-compatible video intercom station featuring a 7-inch touchscreen. This isn't just a replacement – it's a significant upgrade that adds smartphone connectivity to your existing intercom system.



Key Features

- **Answer from Your Phone:** Download the Aiphone Type GT app and respond to door calls from anywhere in your apartment (or even when you're away)
- **7-inch Touchscreen Display:** Large, clear video display for identifying visitors before opening the door
- **Remote Door Release:** Unlock the door directly from the touchscreen or your smartphone
- **Hands-Free Communication:** Two-way audio lets you speak with visitors without picking up a handset



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- **WiFi Connectivity:** Connects to your upgraded WiFi network for smartphone integration
- **Compatible with Existing System:** Works with your current Aiphone GT Series infrastructure

Installation Details

We'll replace your faulty indoor unit with the new [GT-1C7W](#), integrate it with your existing Aiphone system, and connect it to your upgraded WiFi network. You'll have the choice to use either the wall-mounted touchscreen or your smartphone to answer the door – whichever is most convenient at the moment.

MATERIALS

Security Camera System:

- 2× [VIGI C440-W 4MP Full-Colour WiFi Camera](#)
- 2× [VIGI InSight S485 8MP Full-Colour Wired Camera](#)
- 1× Network Video Recorder with Hard Drive Storage
- 1× UPS (Uninterruptible Power Supply) for NVR
- 2× Mini UPS Battery Backup for WiFi Cameras
- 4× Professional Junction Boxes for Clean Cable Management

WiFi System:

- 5× [TP-Link Omada EAP615-Wall WiFi 6 Access Point](#)
- 1× PoE Network Switch (8-Port) for Powering Access Points
- Assorted Network Cabling, Power Cables, Conduit, and Cable Management Trunking

Intercom System:

- 1× [Aiphone GT-1C7W 7-inch WiFi Video Intercom Station](#)

BEFORE WE START

- **Rear Bedroom Access:** Access needed in rear bedroom to run cables from hub to outside for camera installations. This may require moving bed and furniture temporarily to facilitate cable routing through walls.
- **VIGI App Setup:** Please download the VIGI app and set up a free account before installation day. This will allow us to configure your system and grant you immediate access to your cameras.
- **NBN Service Transfer:** If you'd like to switch your NBN service to us (Aussie Broadband), we'll need a recent copy of your current NBN bill to facilitate the transfer process.

OPTIONAL EXTRAS — DETAILS

ITEM	PRICE	STATUS
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NBN Upgrade Setup - REQUIRED WITH SUBSCRIPTION

\$220

Selected

?? BOTH ITEMS MUST BE SELECTED TOGETHER: This \$220 one-time setup fee AND the \$110/month subscription below must both be selected. We handle the entire NBN upgrade process to super-fast 500/50Mbps service through Aussie Broadband as an enterprise reseller. You get enterprise-grade internet with our local support.

Wider Trunking for Power Cable Neatening

No charge

Selected

Upgrade to wider cable trunking to professionally conceal and organize the existing power cables currently connected to power points in the room adjacent to the front camera. This will make all those cables significantly less visible and create a much cleaner, more professional appearance.

SUBSCRIPTIONS — DETAILS

SUBSCRIPTION	INVESTMENT	STATUS
Aussie Broadband Internet - REPLACES YOUR EXISTING NBN BILL ? REPLACES YOUR CURRENT NBN CHARGES: This \$110/month service replaces your existing NBN bill (likely Telstra) - you won't be paying both providers. You'll get 500/50Mbps NBN internet through Aussie Broadband with our local support. Enterprise-grade reliability and performance with the convenience of dealing directly with us for all your tech needs. ?? IMPORTANT: You must also select the \$220 setup fee above to activate this service.	\$110/month	Selected



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IMAGE GALLERY



VIGI InSight S485 8MP Full-Colour Turret Camera



TP-Link Omada WiFi 6 System



TP-Link Omada EAP615-Wall WiFi 6 Access Point



Aiphone GT-1C7W 7-inch Touchscreen Intercom