



Villa Cape Yamu

Phuket, Thailand

Lighting Design: Syntax Lighting
Architects: Denniston International Architects and Planners, Fluid Architecture
Interior Design: Geco Stockholm
Landscape Design: Sala Design Group
Project Coordinator: Sandra Kovacevic
Photo Credit: Uros Stojadinovic



The commissioned design is comprised of an interior, exterior and landscape lighting scheme for a newly built private villa. The villa serves as a holiday resort for the client, his family and friends.

The project consists of many different spaces including: main building on two floors with the main hall, gallery, study and master suite on the first floor, family room, cinema and two en-suite bedrooms on the ground floor; staff wing and garage; gym satellite, spa satellite, two guest en-suite satellites; dining sala over a pond, a swimming pool; numerous terraces, decks, reflecting pools, landscaped areas around the house and the beach area. The total interior area is 1,500 square metres and the plot area is 11,000 square metres.

The programme, the scale and the complexity of the project are equivalent to an exclusive boutique hotel.

Design concept and realisation

The architectural design of the villa emphasises the interconnection between the interior and exterior spaces; a number of external terraces, reflecting pools and landscape areas blend with the interior spaces that open up to magnificent views.



Traditional architectural elements, such as high-pitched roofs, slatted screens and canopies, combined with the contemporary design and references to local sources in terms of materials (timber, silk, gold), offer many possibilities for lighting integration to support the architectural language and to enhance the quality of materials and interior design. Due to large glazed facade surfaces, the interior of the house also forms part of the external image at night.

The interior lighting is required to enhance the architectural and interior design to best effect, to be both functional and visually interesting, fully integrated, or as inconspicuous as possible, with maximum glare control. Warm and consistent colour temperature, excellent colour rendering, as well as the ability to dim smoothly to very low levels, are crucial to the scheme. As this is a resort, mood lighting and flexibility are essential and so





all lighting is controlled through a central lighting scene set system.

The project is designed to the highest specification, including many integrated lighting details and effects. Concealed linear lighting is used for uplighting to sloped timber ceilings, ceiling coffers, ceiling coves to curtains and walls, display niches and vertical cove lighting.

Ceiling coves also conceal accent downlights to decorative window drapes (warm white to 'golden' silk fabric, and fresh cool white to 'silver' fabric). Carefully positioned low glare pinhole downlights and spotlights with various beam angles and accessories provide ambient lighting to floor and accent lighting to artwork. Built-in trimless, low-level wall lights for lighting to floor are used in the circulation areas. The columns are accentuated by narrow beam floor recessed uplights. Decorative chandeliers are used for sparkle, whilst table lamps with



glowing shades soften the ambient effect at eye level.

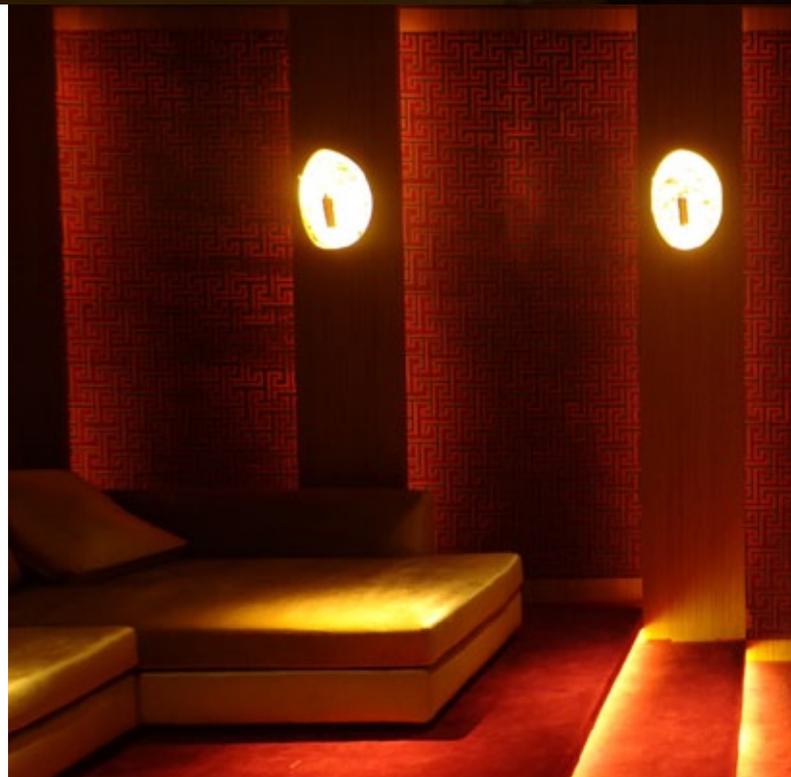
A consistent lighting approach has been employed throughout the project – all lighting elements work together with the materials and forms to create optimum lighting conditions throughout the house.

Lighting equipment

Originally specified back in 2008, and partly reviewed in 2010, the lighting scheme features a fair number of tungsten halogen sources for ambient lighting. This design decision is understandable considering the viability of LEDs at the time of specification.

Besides, being a holiday resort, the villa is only to be occupied for a limited period of time per year and all lighting is dimmable and fully controlled via a central lighting control system.

The scheme also includes cold cathode fittings for built-in architectural details and LEDs for joinery details and for external elements such as linear lighting integrated to handrails, platforms and step nosing details, miniature paths, step and planter lights and lighting within the pool.





The lighting control for each area of the project is programmed to provide at least four scenes. All external and landscape lighting is activated automatically via astronomical time clock.

There are a number of settings that allow different operations in occupational mode (guests visiting) and non-occupational/safety mode (staff only). The control system contributes significantly to energy consumption savings and to minimising maintenance costs. ■

Lighting equipment supply

Mosaic Eins

Audio Visual and Lighting control system supply

AVC Engineering

Lighting control system

Vantage

Notable lighting manufacturers

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