

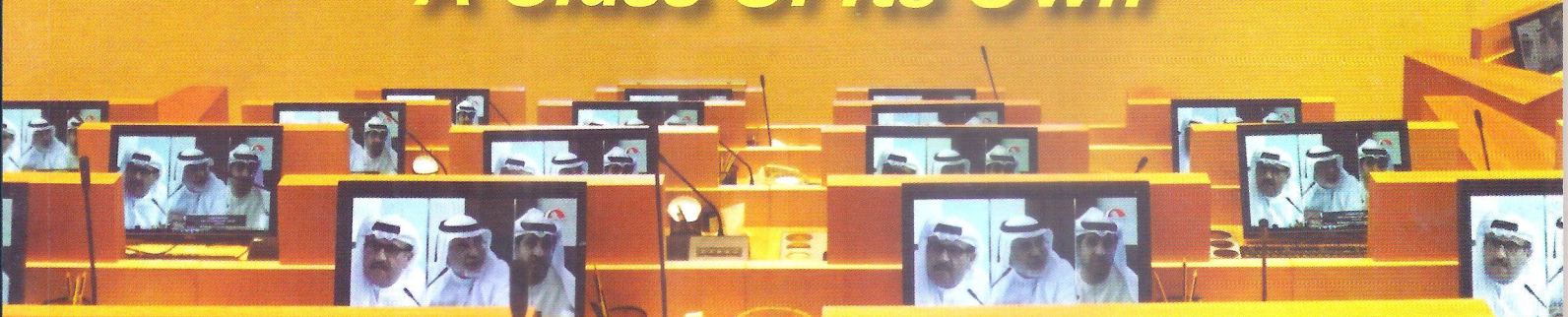
# systems integrationasia

AUDIO • VISUAL • LIGHT • CONTROL SYSTEMS • UNIFIED COMMS

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## Zayed Grand Hall *A Class Of Its Own*



• CONTROL ROOM TRANSFORMATION

• THE NUTS AND BOLTS OF  
HOSPITALITY AV

• INTERVIEW WITH TONY ABU  
JAWAD OF CYVIZ

INDIA

# Bring Home (Ashiana) Technology

*Crestron Digital Media at the centre of the home automation*



mechanism. The client wanted the living spaces to have an enhanced appeal even as the system had to be maintenance-free and easy to use.

Calicut-based design plus architects' Chief Consultant Jose Mon Mathew – who designed the Ashiana – put his expertise in to bring optimum natural light inside the amazingly crafted house, and that posed a sort of challenge to the AV automation designer. An important spec of the brief was to do an 'elegant' integration so that the design appeal of the building is accentuated, and not look like it has been compromised.

Kalite proposed a complete Smart Home solution that brings to place all that the client wanted plus remotely controlled motorized drapes, automated gate system and a network-based video door phone system.

"We wanted to ensure that the client's specs are met without compromising anything," says Juvaid K V, Technology Innovator at Kalite. "We chose Crestron as a front-end solution," he explains, "the best part of Crestron is third party dependency is very minimal; Crestron's solutions are ideal for a sophisticated Smart Home integration like this."

Kalite cautiously built the specs considering the design, aesthetics, functionality, ergonomics and budget. The project team including the architect, HVAC teams, and lighting engineers worked as one single unit to realize the specs to perfection.

*The basic purpose of any technology – at its simplest best – is to make things easy. Expanding a little, it may be making things comfortable, pleasant, cost-saving, and, saying further it may be a status or style statement! Institutions and individuals – informed or otherwise – implement technology for any of these factors. Summing up all this, however, is something like this: Automation of Ashiana, the home!*

*SI Asia had a rarest of the rare privileges to see, nay, cover about an exquisite technology automation at a Calicut, Kerala home. Read on:*

**D**r. Rafeeq Moideen, an eminent dermato-cosmetologist from the Malabar coastal town of Calicut, is a busy skin specialist with hectic work schedules. With his name and fame making his day out apparently exhaustive, with all the good reasons and purpose, he wanted his home to be a place where he could unwind hassle free. Precisely, that meant creating an ambience which he could fully control any time from anywhere.

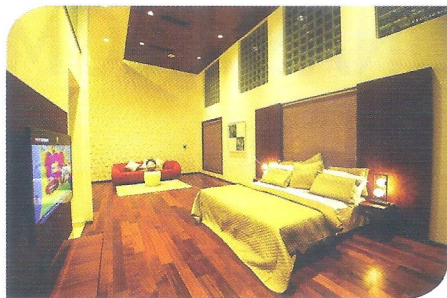
The appointed architect proposed a solution where imagination ran high on automating various utilities to the utmost and having access to it on the mobile platform. That is where locally-based audio-visual systems integration firm Kalite came in to fulfill the imagination of the architect and his client.

ASHIANA (meaning 'home' in Urdu) – as Dr. Moideen had named his home, was thus set to become literally one for the automation technology that the architectural and AV design consultants have proposed.

## The Need & Spec

The doctor's four-member family wanted a comfortable, energy-efficient Smart Home that has a flexible, automated lighting system, and centralized audio visual system with safe surveillance





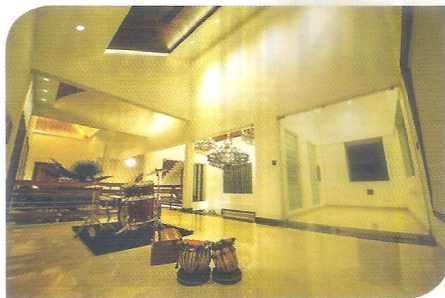
### The Design: Zonal Elegance

The AV designer chose Crestron touch panels TSW-750 with graphic displays to blend with the interiors. These elegant black touch panels allow the client to manually control the entire lighting, AC, Audio Video, front gates, drapes from each room and corridors. The TSWs are further augmented by an iPad Air2 to carry out their controls to various areas inside the house. Lighting was done with ENDO LED fittings to create different lighting ambiances so as to allow the client the ability to adjust the same to suit the function of the room or their mood. Multiple sensors automate the lighting depending on the time of day, occupancy and ambient light levels for extra efficiency.

As one of the first major design aspects, the designer evolved an 8-zone audio-video system. Audio part is designed with Crestron EXCITE-IC5-W-T white-textured, 2-way ceiling speakers that are powered by SWAMPI-24x8 Sonnex multi-room audio system, while the video component is done with TATA Sky TV distributed to each room in HD quality.

A total of five Samsung UHD televisions of varying sizes from 32" to 60" adorn walls of different spaces. Further, the house also has a dedicated home theatre featuring a 100" inch Samsung UHD, and a premium 9.1 surround sound system.

A centralized AV system helps the residents choose movies, or listen to choice music from anywhere in the house. A Madbox X1 Media Server, a Belkin N600 dual band, wireless networking router-modem, and a few Apple Airport Express combine to help stream HD movies from iTunes, or from Netflix, and even share photos from the iPhone directly to each TV. All the TVs



are rendered controllable from either an elegant touch panel or a dedicated iPad.

A Crestron DM-MD8x8 Digital Media Switcher – in alignment with SM-RMC-SCALER-C receiver-video scaler-control interface, and Crestron CP3 3-Series Control System – stays at the centre of the system while a combination of Crestron DIN-PWS50 DIN Rail 50-watt Cresnet power supply; DIN HUB Rail Cresnet distribution hub; DIN BLOCK distribution block; DIN-4DIMFLV4 DIN Rail fluorescent dimmer; DIN8SW DIN Rail high-voltage switch; DIN-IO8 DIN Rail Versiport Module; a DIN DALI2 Interface; and a GLS-ODT-C-CN dual-technology occupancy sensor perform various functions of lighting and media streaming.

"Zoned control of the AV systems, AC and lighting, and interoperability of devices is central to the whole automation," explains Juvaid. "This particular aspect ties diverse electronic devices together to perform as components of one unified system," he elaborates, "the user can remotely communicate with any component from any part of the world."

### Surveillance Automated

That for an automation of such a scale, integrating security is just as indispensable, the design team chose matching surveillance spec and systems. Handling the job in unison is a combination of Honeywell, Western Digital, TCS, and Siemens, in addition to the Crestron touchpanels.

A Honeywell FG1625T glass break detector, and a Siemens C2212GP gas detector continuously monitor any hazardous strike at the glass doors and windows, and emissions from

kitchen or elsewhere. A TCS' IP Video Door Phone capture the image of the person knocking the door, and alerts the touchpanel as well as the mobile phone or tablet with a flashing image-irrespective of the distance.

An 8-channel Honeywell Digital Video Recorder CADVR-08D with H.264 codec and full D1 resolution recording gives the user the ability to live view, record, search and transmit up to 8 channels of analog video sources and alarm input. Augmenting this is again a Honeywell CCADC850PIV36 Colour 850 TVL IR fixed dome camera with Sony HAD II CCD3.6mm lens and configured to capture movements from a radius of 10-15 meters. The videos captured and recorded thus are fed to a 1TB Western Digital WDCWD10EURX surveillance SATA HDD so that they can be reviewed as when required.

"Any disturbance in terms of people's movement, gas emission, or glass break is immediately buzzed on all the touchpanels in the house," explains Juvaid, "anyone responding to the alert is also shown on the panels, so people watching it are assured of the issue being attended."

According to the consultant, with so many utilities being automated, and security of all ensured, life is smooth, comfortable and enjoyable for all practical reasons.

Dr. Moideen, the demanding client and a prideful owner of a fully-automated ASHIANA, is apparently glad about what had been accomplished for him. He is all praises for Juvaid and the Kalite team. "'ASHIANA' wouldn't have been that 'Smart' without their dedicated work and innovative ideas," says the dermatocosmetologist. "Me, and my family feel at ease, safe and relaxed with all the solutions made easily available at our fingertips by Team Kalite," he says. "I appreciate their hard work, and stand first to say Kalite have done a great job."

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