Alpha
Consulting Engineers Pte Ltd

FEEDBACK REPORT FORM

Ref No: 127-080310(S)

To: LCT From: LFY

Job No./Project: ELECTRICAL MASTER SPECS
Section 15 - Building Security System (Residential) *(where applicable)*

Source of feedback:

Scope of Feedback: * ☐ Quality ☐ Environmental ☐ Administrative ☐ Contractual
☐ Technical ☑ Specification ☐ Others

Section A : Problem & Cause

Video Monitor and Video cassette recorder are outdated

Section B : Mitigating Action Taken, if any

Section C : Suggested Corrective Action

Updated specifications for video monitor and digital video recorder added.

Section D : Approved Corrective Action

Document Affected * : ☑ Yes ☐ No Affected Document : E|15-10

Approved By : Date : 3/3

Section E : Action

Action By : NA

Targeted Completion : March 2010

Actual Completion : 3/3/10 Verified By :

** Mark [X] where appropriate*

Distribution:

15.11 Video Monitors

All video monitors shall be of the LCD panel type as shown on the Specification Drawings and shall be located vertically at an angle.

The LCD monitor shall have a resolution of 1600 x 1200 pixels with panel size of 51cm and an effective viewing area of 408 x 306mm. Anti-glare polarizer shall be provided with RGB vertical strip. The pixel pitch shall be 0.255 x 0.255mm with brightness of 250 nits and a contrast ratio of 400:1 and 16m display colours. The mean time between failure shall be a minimum of 50,000 hours with built-in power supply. It shall be capable of accepting Analog (VGA), DVI-D and PC Audio Signals. The response time shall be 16ms and the refresh rate shall be 56-85Hz. Swivel and tilt shall be +/-175˚ and -5˚ to 25˚ respectively.

15.12 Digital Video Recorder

The digital video recorder shall be compact and combines advanced digital recording and multiplexing to ensure integrated functionality. It shall deliver excellent image quality and utilise MPEG-4 compression to significantly reduce bandwidth and storage requirements at the same time allowing more details to be stored and extent retention periods.

It should provide recording at a minimum of 10 frames per second (fps) in 2 CIF resolutions on all 16 channels simultaneously. It should allow simultaneous recording and playback of video images with “overwrite protection” of marked video clips to prevent loss of vital material. In addition to archiving the recordings in an internal DVD writer, it shall also support USB memory devices. Its storage capacity shall allow it to record images at the above recording rate and resolution for a period of at least one month without the use of external storage arrays.

The fps record rate and image quality are selectable for each connected camera to allow prioritized recording between high-risk area and low-risk areas. Maximum recording rates of 160 fps (PAL) are guaranteed, without the need for synchronization.

It shall have a built-in motion detector which will trigger an alarm when movement in a user-definable area of the image is detected. It shall have a smart motion search feature for easy retrieval of motion that has taken place within a user-specified part of the image during a specified time-span.

15.13 Console

A console shall be provided in the Security Room as shown in Specification Drawings to accommodate the CCTV video monitors, sequential switching units, video tape recorder, central controller and all the peripheral equipment, a PABX telephone unit, D.C. power supplies, batteries and battery charger for the security systems, remote lighting, control switches, etc. The console shall be provided with separate sub-panels and compartments to house the different services where appropriate.

The console shall be designed for an operator sitting at the centre with overall view of all the CCTV video monitors and CRT screen of the central controller while ensuring that the control for all items are easily identifiable and within easy reach of the operator.

Except for the CCTV video monitors and the central controller, all equipment on the console shall be mounted flush (recessed) with the horizontal facia plate.