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SECURITY *with* VISION

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FUSION

FUSION

**ARCHITECTURAL AND ENGINEERING
SPECIFICATION**

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2. Product Reference

2.1.Fusion is a scalable modular software suite that provides total system integration and management of a multi-site CCTV system from a Windows platform.

3. Product Requirement

3.1.General

3.1.1. The software shall run on Windows 2000 or XP based machines.

3.2.System Architecture

- 3.2.1.A client / server solution architecture will not be permitted as a method of controlling / integrating the CCTV system.
- 3.2.2.Each workstation should 'connect' to the CCTV system network directly and not be dependant on a server, or each other to function.
- 3.2.3.The disconnection of any workstation from the system should not affect the ability of the connected workstation to control the CCTV system.
- 3.2.4.The architecture shall support standard Windows type networking for maintenance purposes only.
- 3.2.5.To provide maximum flexibility of operation the workstation software will be a number of separate 'stand-alone' programs each of which will have it's own particular function. This will also ensure the system is only configured and maintained by the designated personnel
- 3.2.6.The operator workstation software will only permit the user to control the CCTV system. The program will not incorporate the capability to configure, amend or alter in any way whatsoever any configuration parameters of the CCTV system.
- 3.2.7.A second software program shall be available to permit configuration of the GUI maps and icons.
- 3.2.8.A third software program will allow configuration of CCTV system equipment EG cameras, VCR's camera control receivers, video matrices. The ability to remotely upload and download equipment configuration settings shall be available to maximise service efficiency.
- 3.2.9.A fourth software program will allow a wide range of system events to be logged, and quickly and easily turned into management reports using standard Microsoft Office tools.
- 3.2.10. A fifth software program will allow the effective management of service and maintenance contracts. It will provide comprehensive facilities for reporting and tracking faults, monitoring response and rectification times, and, when necessary, automated generation of contract default notices. It will also provide powerful management reporting facilities that link directly into the Microsoft Office environment.
- 3.2.11. A sixth software program will allow workstation operators to create and manage electronic logs of the incidents they have witnessed. It will also be used to view/edit/manage the data, and create management reports with tables and graphs using the Microsoft Office environment.

3.3.GUI

- 3.3.1.Only pastel shaded maps will be acceptable on the GUI, which minimises operator fatigue, and RSI.
- 3.3.2.The system will allow live video to be displayed on the GUI with image resolutions up to 768 x 576 pixels at 25 frames per second. To accomplish this, it will use the hardware acceleration capabilities of the workstation's graphics card.
- 3.3.3.The operator workstation software shall be written in a robust object oriented language EG C++.
Operator workstation software written in pre-dotNET Visual Basic, scripting languages, etc. will not be accepted.

3.4.Functionality

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- 3.4.1. Selection of a camera icon will display that camera's picture on the current user monitor. This shall apply to local and intersite cameras.
- 3.4.2. Direct selection of a preset icon without first selecting the camera associated with the camera preset will result in the camera being switched to the current user monitor and the camera moving to the selected preset.
- 3.4.3. It shall be possible to navigate GUI maps through either selecting an icon, using 'quick-tabs' at the top of each map or by using the compass arrows.
- 3.4.4. Operation of the GUI will be protected to stop unauthorised use of the system. A log on screen will greet the user at which point the user will select their name from a drop-down list and be required to enter a PIN to log-on.
- 3.4.5. It shall not be possible to easily quit the GUI program from the log-on screen.
- 3.4.6. The operator shall be automatically logged off the system after a configurable period of inactivity.
- 3.4.7. It shall be possible to Accept, Park, Postpone and Cancel alarms.
- 3.4.8. An alarm stack will show the current system wide alarm status in real time.
- 3.4.9. Operator functions shall involve the ability to start and stop sequence patterns.
- 3.4.10. Operator functions shall involve the ability to perform Zonal switching.
- 3.4.11. A facility to restore all video x-points to a pre-configured state shall be provided.
- 3.4.12. Camera control facilities shall be provided from the GUI including variable speed control of pan, tilt, zoom and focus functions.
- 3.4.13. A special mode of operation shall be provided whereby the operator can select cameras to view using the GUI, but control the camera functions, such as PTZ, via a separate keyboard with a proportional joystick. Having to re-select the camera from the keyboard would not be permitted.
- 3.4.14. Integration facilities should include common VCR functions.
- 3.4.15. Integration facilities should include common MUX functions.
- 3.4.16. Dedicated monitor buttons will be provided for the Spot monitor, User monitor and monitor wall.
- 3.4.17. A dedicated button should, when pressed, relay the currently viewed video stream to a configurable additional monitor.
- 3.4.18. A dedicated 'Instant' record key will be provided on the GUI, which the operator can select to record an event. The GUI will have the ability to automatically manage a 'pool' of recording devices.

3.5. Configuration

- 3.5.1. The position and attributes of all icons must be configurable:
 - 3.5.1.1. Camera icons – PTZ, fixed (pointing in the direction they are viewing) and domes
 - 3.5.1.2. Preset icons – including "home" position
 - 3.5.1.3. Monitor icons
 - 3.5.1.4. Navigation icons
 - 3.5.1.5. Recording device icons
 - 3.5.1.6. Zonal switch icons
 - 3.5.1.7. Information icons
 - 3.5.1.8. Multiplexer icons
 - 3.5.1.9. Alarm icons
 - 3.5.1.10. Received function icons
 - 3.5.1.11. Hotspot icons

3.6. Performance

- 3.6.1. A camera selection actioned within 20ms.
- 3.6.2. A map will be displayed within 15ms.

3.7. Expansion Capabilities

- 3.7.1. The functionality of the system should be expandable by the addition of further packages.

4. Product Options

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4.1.

- 4.1.1. The GUI must have inset video as an option.
- 4.1.2. The GUI must have touchscreen operation as an option.
- 4.1.3. The GUI must have the option of supporting monitors in excess of 17"
- 4.1.4. The GUI must have the option of communication via Ethernet
- 4.1.5. The GUI must have the option of communication via RS232

5. Specification

5.1. The CCTV integration and management system shall meet or exceed the following specifications.

- 5.2. 50 users
- 5.3. 250 maps
- 5.4. 32 workstations
- 5.5. 256 sites
- 5.6. 2048 monitors
- 5.7. 4096 cameras per site
- 5.8. 99 presets per camera
- 5.9. 10 user groups
- 5.10. 11 user levels

6. Manufacturer

6.1. Meyertech Limited

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6.2. A Company who has attained ISO9001:2000 quality system accreditation shall manufacture the product.

6.3. The CCTV integration and management system specified shall be FUSION manufactured by Meyertech Limited.

7. Fusion Product Part Codes and Descriptions

7.1. Software

- 7.1.1. **FUSION-ALARM** FUSION Server Application for contact alarm monitoring and management.
- 7.1.2. **FUSION-LITE** FUSION Lite Software. A simple and easy to use Windows application providing video selection and camera control functions.
- 7.1.3. **FUSION-AUDIT-ZVK** FUSION Audit Software. Allows auditing of ZoneVu keyboards when operated in Site mode. Requires FUSION-AUDIT to operate. Only compatible from ZVK-77D onwards.
- 7.1.4. **FUSION-AUDIT** FUSION Audit Software. Provides complete auditing of ZoneVu and/or FUSION system events and user actions for up to four FUSION workstations and sixteen ZVK-77D keyboards. Incorporates powerful data filtering and management reports. Compatible with Microsoft Office. An additional licence is required for systems with five or more FUSION workstations.

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- 7.1.5. **FUSION-AUDIT-WSX** FUSION-AUDIT software for each additional workstation above four.
- 7.1.6. **FUSION-EDIT** FUSION System configuration tool and FUSION map editor software.
- 7.1.7. **FUSION-GUI** FUSION-GUI workstation software. Total multi-site management from a Windows GUI platform.
- 7.1.8. **FUSION-CALLOUT** FUSION-CALLOUT Service and maintenance contract management software. Provides comprehensive for reporting and tracking of system faults, monitoring of response and rectification times with automated management reports.
- 7.1.9. **FUSION-CONCIERGE-MCDB** FUSION-CONCIERGE telephone concierge management software comprising FUSION concierge Server and PABX client for 1 to 4 client workstations.
- 7.1.10. **FUSION-CONCIERGE-MCDB-WSX** FUSION-CONCIERGE telephone concierge management software for more than 1 to 4 client workstations.
- 7.1.11. **FUSION-CONCIERGE-WS** FUSION-CONCIERGE workstation client software.
- 7.1.12. **FUSION-MAP** FUSION Map. High resolution site maps and diagrams incorporating *Meyertech trademark* low fatigue pastel colour scheme.
- 7.1.13. **FUSION-SUITE** FUSION applications manager software. Manages access to multiple FUSION applications without having to exit to the Windows environment.
- 7.1.14. **FUSION-CAPTURE** FUSION video capture software and processing. Provides scheduled automated capture of system images.
- 7.1.15. **FUSION-INCIDENT-WS** FUSION-INCIDENT workstation software licence. One licence required per workstation.
- 7.1.16. **FUSION-INCIDENT-LMDB** FUSION-INCIDENT Local Management Console & Database software for 1-8 FUSION-INCIDENT-WS workstations.
- 7.1.17. **FUSION-INCIDENT-CMDB** FUSION-INCIDENT Central Management Console & Database workstation software for 1-16 FUSION-INCIDENT-LMDB's and up to a maximum of 64 FUSION-INCIDENT-WS in a system.
- 7.1.18. **FUSION-CALLOUT-LM** FUSION-CALLOUT Local Management Console & Database software.
- 7.1.19. **FUSION-CALLOUT-CM** FUSION-CALLOUT Central Management Console & Database workstation software for 1-16 FUSION-CALLOUT-LM's.
- 7.1.20. **FUSION-DEMO-CD**

7.2. Hardware

- 7.2.1. **FUSION-WMK** FUSION Wireless Mouse & Keyboard. Replaces standard keyboard and mouse on any FUSION Workstation.
- 7.2.2. **FUSION-SMK** FUSION Standard wired Mouse & Keyboard. For use with non-touchscreen displays.
- 7.2.3. **FUSION-MKTB** FUSION Mini-Keyboard and tracker ball. For use where a FUSION-WS4 is installed in a 19-inch cubicle.
- 7.2.4. **FUSION-WS4** FUSION Workstation for use in a control room environment or a service & maintenance workstation in an equipment cubicle. **Hardware** - Intel Celereon PC housed in a 19-inch rack enclosure, Inset video card, 12-months return to base warranty. **Software** - Windows XPpro, FUSION-GUI and FUSION-SUITE. FUSION maps keyboard and display ordered separately. **Support** - 12-months telephone and email FUSION software support contract.
- 7.2.5. **FUSION-WS5** FUSION Workstation for use in an office environment. **Hardware** - Hewlett Packard low profile desk top PC fitted with a Inset video card, 12-months return to base warranty. **Software** - Windows XPpro, FUSION-GUI and FUSION-SUITE. FUSION maps keyboard and display ordered separately. **Support** - 12-months telephone and email FUSION software support contract.
- 7.2.6. **FUSION-LCD17** FUSION 17-inch LCD monitor. For use with FUSION-WS4 or FUSION-WS5.
- 7.2.7. **FUSION-LCD17TS** FUSION 17-inch touchscreen LCD monitor. For use with FUSION-WS4 or FUSION-WS5.
- 7.2.8. **FUSION-LCD19** FUSION 19-inch LCD monitor. For use with FUSION-WS4 or FUSION-WS5.
- 7.2.9. **FUSION-LCD20TS** FUSION 20-inch touchscreen LCD monitor. For use with FUSION-WS4 or FUSION-WS5.

7.3. Training and Support

- 7.3.1. **TS-CMUK** Training operators on FUSION system.
- 7.3.2. **FUSION LITE-SCSL** FUSION single licence support contract.

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7.3.3.**FUSION-MS**C FUSION Software Remote Support 12 months.

7.3.4.**FUSION-SCML** FUSION Lite multi-licence supprt contract.

7.3.5.**FUSION-TSC** FUSION software support 12mths.

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