ZMX Plus MULTIPLEXER RANGE

BAXALL LIMITED

ZMX+/CS/10	10 Way (Colour Simplex	ZMX+/CS/16	16 Way Colour Simplex	
			 Direct V Variable dome c PVP (P Live and Integrat Covert in Live of AutoLis dwell tir Bax-ne matrice Simplifii Installer View so 	ES a operation (Record or Live or Playback) /CR control from the multiplexer keyboard via RS232 a speed telemetry control for interface to AC, DC and DAX onverters arallel Video Processing) for up to 50 fps update rate i d Record modes ion to other systems using Macro RS232 commands camera setting to prevent operators viewing the image or Replay modes t™ enables automatic sequence list set up with variable ne for up to 2 monitors t compatible for system integration to multiplexers s, and remote keyboards ed menu structure with password protected User and menus preens option for instant parameter set-up validation tes tapes from other major manufacturers (eg. DM and the tage of the tage of tages from tage of the tage of tages from tage of tages from tages fr	
Specifications			,		
Inputs and (Outputs	Composite and S-VI VCR (Vext input) au	gh camera inputs with HS VCR input and out tomatically synchronise s with on-screen captio	out es the recording speed	
Functio	on Keys	10 or 16 user-defined, macro style functions 10 or 16 user-defined submacro style functions Up to 20 event (Macro) Scheduler Macro Function commands, daily, or once a week at a specified time			
Display (Options	In RECORD mode: Monitor A and Monitor B Analogue, full-screen, sequence (adjustable dwell and camera list) and Autolist [™] . In Record mode, Monitor A and Monitor B are independent with captions being displayed on Monitor A. Record and Playback. In 3-hour, multiplexed, record-mode the multiplexer typically records up to 5 unique fields of video per second, with no requirement for synchronising cameras. Compatible with a common time-lapse VCRs. Programmable time-lapse modes (Normal and Alarm). Data restored a playback; time/date, alarms and camera titles.			
		In LIVE and PLAY modes: Monitor A Digital, full-screen, sequence (adjustable dwell and camera list), selectable multi-screen formats for LIV and PLAY mode, x2 electronic zoom, freeze frame, digital pan and tilt. Monitor B Analogue, full-screen, sequence (adjustable dwell and camera list) and Autolist™			
Alarm	n Events	Videoloss Detection Alarm Responses Interleaving or exclu Normal and Alarmed Alarms : buzzer, flas Videoloss : buzzer, f Recorded alarms are	and Motion Detection sive recording of alarn d recording speeds shing LED and on-scre flashing LED and on-sc e also indicated during	en A/ALM text creen V/VDL text	



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Specifications

Alarm Events (contd.)	Manual-Reset, Auto-Reset, or Contact-Closure. Keyboard and External Alarm Clear. External Alarm Actuation (from front panel)		
Telemetry	Built-in Baxall telemetry		
All Video Inputs and Outputs	75 Ohm BNC connectors Video: 1V pk-pk composite (PAL compatible). Composite or S-VHS VCR connections High display resolution 512 x 576, Recorded resolution 512 x 288		
Camera Switch Input (Vext)	Accepts a TTL, field-synchronised, negative going pulse, duration 2-5 ms. Edge triggered with the edge selectable in the menus. HIGH level, +4.5V to +5.5V LOW level, 0V		
Power Power Consumption	Auto-ranging : 110/230V AC (10%, 50Hz, to 12V DC external power supply provided. Max : 38W		
Physical Specifications Dimensions	Operational temperature limits 0° C to +40° C at 10% to 80% relative humidity (non-condensing) Storage temperature limits -20° C to +60° C at 10% to 95% relative humidity (non-condensing) 443 (W) x 90 (H) x 358 (D)		
Weight Colour	6.5 kg (unit) 8kg (shipping) Grey		

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The Simplex multiplexer shall be a Baxall ZMX+/CS/10 (or ZMX+/CS/16) or better

The digital multiplexer shall provide full resolution, time division multiplexing of up to 10 or 16 [colour][monochrome] video inputs, with independent output to up to two monitors (1 digital, 1 analogue).

The unit shall have record and playback connections to VHS and SVHS video recorders. The unit shall be rack-mountable and shall feature a high degree of built-in intelligence to simplify the setting-up and operating processes.

The unit shall have two digital video processors and include PVP™ (Parallel Video Processing). The PVP™ feature provides image update rates in Live and Record modes of up to 50 unique fields per second. Increased video update rates in Live multi-screen will be achieved using conditional update.

When in Record Mode the analogue monitor shall be Independent.

User defined sequence tables, alarm response functions and recording lists shall be standard. One monitor shall have analogue full screen or sequenced video displays. The Main monitor will have user defined digital full screen, sequenced, or selectable multi-screen display in Live, Record and Playback modes. The unit shall include AutoList[™] capability to automatically record a sequence of keystrokes to set up camera sequences on any monitor.

The Simplex multiplexer shall have direct RS232 control, via its front panel, of the standard VCR key functions; Play, Record, Rewind, Fast Forward, Pause, Stop, Frame Advance and Frame Reverse. In addition, a functional link between the Play and Record keys will operate both the VCR and the multiplexer simultaneously. Additional RS232 commands may be sent and received by the multiplexer through sub-macros for integrating the multiplexer into other digital command and control systems.

In Record mode, multiplexed digital recording of video fields from cameras shall be programmable by the user but shall be automatically modified in the event of alarms, activity detection or intrusion detection.

Recording speeds for normal, alarm, activity and intrusion detection shall be separately programmable. A connection for a VCR clock pulse (VEXT) shall be provided to ensure any change in VCR speed shall be automatically matched by the multiplexer with no manual changes necessary. The unit shall have the ability to match recording speeds of a wide range of VCR's with field delay capability of 1 to 333 in steps of 2 which correspond with speeds of 3 to 996 hours settings.

In Live mode, the unit shall display images at a rate of up to 50 fields per second. The operator will have the choice of viewing options on the Main digital multi-screen monitor including; full screen, full screen sequence, picture in picture (PIP, movable

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and sizeable), 4, 7, 9, 10 and cameo sequence in any multi-screen (4, 7, 9, 10, 13 and 16 with ZMX+/CS/16). All sequence dwell times and multi-screen configurations shall be user programmable.

The operator shall have a selection of manual picture controls on the Main monitor including; full screen image freeze, 2X digital zoom and digital pan tilt of frozen or Live image. These manual controls shall be available in Live and Playback modes.

Covert camera mode shall be available during Live mode if selected whereby some camera views will not be displayed on the monitors but will continue to be recorded.

Digital time base correction shall be used to eliminate the need to synchronise camera inputs and to avoid duplication of adjacent recorded fields when switching between cameras.

Multiplexed recordings to tape shall include time, date and any on screen camera ID, titling and status information. In Playback, the operator shall have a choice of displays and manual picture controls similar to those in Live mode. In Playback mode, the unit shall display images at a rate of up to 50 fields per second.

The unit shall have the ability to play back videotapes multiplex recorded on systems as follows; Baxall ZMX-IT and Storm, DM format, ROBOT format and Norbain Gen3 series.

The unit shall be menu programmable using the front panel keys or from a remote keyboard. The menu system shall be password protected with two levels of passwords; one for installers and one for operators. Menu text may be translated and displayed in local languages as required and available.

The menu system shall be in a modern "Windows style" with pull-down options for simple programming and usage. A System View menu will be available whereby all multiplexer programmed parameters are available to view by the user.

Simplified set-up functions will be included. The unit shall have automatic camera termination, automatic and manual camera AGC control, automatic camera detection and automatic colour or monochrome setting.

The Simplex multiplexer shall include user programmable macros. Macros will enable the user to pre-program up to sixteen commonly used sequences of key-strokes and recall them manually by just two presses or automatically if linked to a timed event or an alarm input. Changes of system set-up and response activity shall be accomplished through a macro rather than through a menu item change.

Sixteen alarm inputs and two alarm outputs shall be provided. In the event of an alarm several user programmable responses may be activated automatically. The alarmed camera view shall be displayed on the programmed monitor.

The alarmed camera view and up to an additional 3 (three) camera views of associated cameras will be displayed on the Main multi-screen monitor. The alarmed camera image may be frozen at the time of alarm and displayed on the multi-screen monitor with its associated camera views.

Multiple alarms will sequence on multiple monitors as programmed and be displayed in multi-screen views as programmed. An LED will flash on the front panel, an internal alarm buzzer will sound according to its program, and video recording and multiplexing times will be adjusted according to the program.

Alarms may also be activated manually through pseudo alarm activation on the front keyboard. A one hundred (100) event alarm history shall be maintained and shall be viewable by authorised users.

Video loss from any camera shall be detected and signalled on the monitor together with the last frame of video received before video was lost.

Camera inputs may be enabled or disabled during system set-up through the menu system. The alarm outputs shall be capable of activation by active alarms, macro functions, activity detection or intrusion detection.

The unit shall include activity and intrusion detection facilities. Each camera input may be programmed for either type of detection capability with different parameter settings for each.

Activity detection shall have record rate adjustment settings and alarm output functions. Intrusion detection shall have target size settings, false alarm rejection and alarm activation capability.

The user may select detection to be active in any combination of 256 zones (in a 16 x 16 grid) within the camera view. There shall be at least 10 sensitivity levels for each camera to compensate for contrast and lighting conditions.

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A sensitivity scope shall be included in the set-up programming to assist in properly setting sensitivity. Target size adjustment shall have 256 levels. To compensate for movements and lighting changes that would normally create false alarms, 3 levels of alarm rejection are to be available; Low, Medium and High.

The unit shall incorporate a telemetry transmitter compatible with Baxall ZR series telemetry receivers and Baxall DAX variable speed dome controller, which support Baxall proprietary "down-the-coax" telemetry.

All the functions of the receivers shall be controlled by push buttons on the multiplexer's integral or remote keyboard. Any receiver presets shall be recalled either by an alarm input or manually from the keyboard. Any monitor may display and control telemetry cameras.

It shall be possible to configure up to 32 multiplexer's or keyboards in any combination on an RS485 bus. The unit shall be Baxall Baxnet compatible.