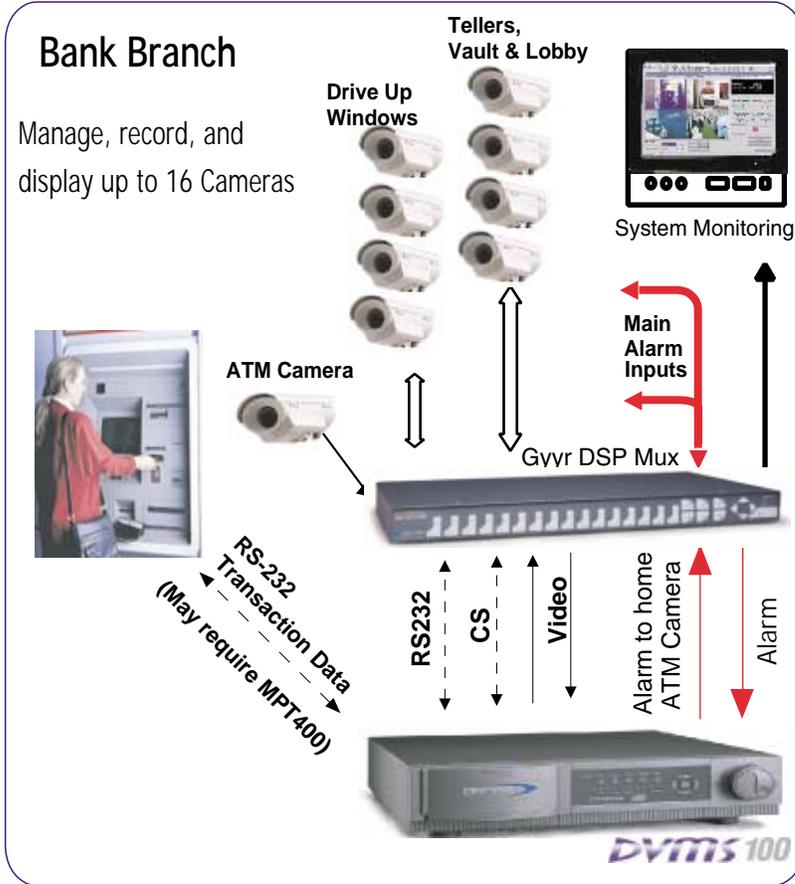


# DVMS Solution for Bank Branch

## Using DSP16c Mux



### Why DVMS

- Record daily branch activity with full 24/7 coverage of all transactions from a single ATM.
- Display live multiscreen of up to 16 cameras.
- Remotely access the system with a PC via LAN, Internet or modem.
- Remotely search to ATM transactions by amount, transaction # or Time/date.
- Store up to 90 days of video data to Hard Disk--eliminating videotape management, storage and costs.
- Confidently deploy a proven technology from an experienced manufacturer.

### Daytime Operation:

All Branch (non-ATM) cameras recorded at a regular timelapse interval. Whenever an ATM transaction occurs, the system records both the transaction data and ATM video. After which, the system resumes normal multi-camera timelapse recording.

### After Hours Operation:

When the Branch closes, the System stops recording the interior and driveup cameras, conserving storage space. As with the Daytime schedule, all ATM transactions will be recorded. Note that it's possible to utilize Video Motion Detection on a single camera (ex. ATM or perimeter protection) for after hours operation. Contact Gyyr for information.

### Alarms:

The MAIN ALARM INPUTS would connect to any panic, holdup or break-in alarms from the alarm panel. At any time, any alarm asserted would force recording of a desired sequence of cameras.

### Banking Applications

- Integrates with ATM systems
- Offers efficient video recording of daily branch activities
- Increases productivity--Branch managers no longer have to remove video tapes for the investigation process
- Provides live multi-screen display
- Enables remote review of video and ATM transactions
- Provides on-line, long-term storage of video evidence
- Enables the video capture of license plates and drivers
- Enables searches to specific text string, time/date, amounts and transactions
- Reduces fraud investigation costs and increases fraud recovery value





# DVMS Solution for Bank Branch

## Using DSP16c Mux

### System Configuration Options

System #1 Refresh, per Cam	# of Non-ATM Cams	
# Weeks of Storage	8	15
4 Weeks (3 fps total)	2.7 sbp	5 sbp
13 Weeks (1 fps total)	8 sbp	15 sbp
26 Weeks (.5 fps total)	16 sbp	30 sbp

System #2 Refresh, per Cam	# of Non-ATM Cams	
# Weeks of Storage	8	15
4 Weeks (5fps total)	1.6 sbp	3 sbp
13 Weeks (2 fps total)	4 sbp	7.5 sbp
26 Weeks (1 fps total)	8 sbp	15 sbp

System #3 Refresh, per Cam	# of Non-ATM Cams	
# Weeks of Storage	8	15
4 Weeks (15fps total)	1.8 ips	1.0 sbp
13 Weeks (5 fps total)	1.6 sbp	3.0 sbp
26 Weeks (2 fps total)	4 sbp	7.5 sbp

ips=Images/second; sbp=Seconds between Pictures

#### System #1

Part # Description  
 DV1-IU DVMS 100 Digital Recorder  
 w/ 70GB internal IDE HD  
 DSP16C-SV 16 Channel Color Duplex Mux

#### System #2

DV1-IU-FDU DVMS 100 Digital Recorder  
 w/ (2) 70GB internal IDE HD  
 (140GB Total)  
 DSP16C-SV 16 Channel Color Duplex Mux

#### System #3

DV1-SU DVMS 100 Digital Recorder  
 w/ 70 GB internal SCSI HD  
 DSP16C-SV 16 Channel Color Duplex Mux  
 DV1-RAID-S-A 240 GB Standard  
 Capacity Storage Mini-Tower

### Assumptions

**Timelapse:** 10 hours/day recording M-F, 6 hours on Saturday; 56 hours/week recording. Total record time for 13 weeks = 728 hours. At equivalent VHS timelapse rate of 240 hours (1 field every 2 seconds), requires 30.5 GB. At equivalent VHS timelapse rate of 120 hours (1 field every second), requires 61.5 GB. Total record time for 26 weeks = 1456 hours. At equivalent VHS timelapse rate of 240 hours (1 field every 2 seconds), requires 61.5 GB.

**Transactions:** 400 transactions/day, 5 images/transaction = 2000 images/day. Requires 327MB/Week. Note: All calculations are made using 15:1 compression ratio, equivalent to SVHS quality. A slightly lower quality setting of 20:1 compression could be used, which would increase the refresh rate of recording, or possibly reduce the storage requirements. Please consult Gyyr Applications should you be interested in this option.

**Bank Branch Scenario Overview:** In this Bank Branch scenario, you would have up to 16 cameras including a single ATM. The DSP16c Mux switches the 16 cameras, feeding the DVMS 100. These wire together as normal, along with CS Pulse and RS232 control connections.

**Daytime Operation:** All Branch (non-ATM) cameras recorded at a regular timelapse interval, as dictated by the MUX Programmable sequence. (The Mux Day/Night Sequence can remain identical). The DVMS NORMAL schedule should be programmed to record normal timelapse, and is set to "VMD disabled". Whenever an ATM transaction occurs, the DVMS 100 receives the transaction data and sends an alarm to the Mux. The Mux then homes to the designated ATM camera for the duration of the transaction. Both ATM video and data are recorded. After which, the Mux resumes normal multi-camera sequencing.

**After Hours Operation:** When the Branch closes, DVMS changes to its "Alternate" schedule, based on its timer. The DVMS "Alternate" schedule is programmed to only record when an ATM transaction occurs. As with the Daytime schedule, ATM transactions force the system to record ATM video and data.

**Alarms:** The MAIN ALARM INPUTS would connect to any panic, holdup or break-in alarms. At any time, any alarm asserted would force recording of a desired sequence of cameras. Note that if remote access is desired, DUALSTREAM on DVMS must be enabled. However, DUALSTREAM limits the record rate to 10fps maximum.

The Effective Transition to Digital Video