

POS implementation

USER'S Manual



1.1 Pos introduction and function

1.1.1 Introductions

Lanvision POS-DVR surveillance system is a professional surveillance integrated with POS system. While connection between POS and Lanvision DVR system by LV-series connector, the Lanvision DVR surveillance system can turn into a POS-DVR surveillance system. By bringing video and POS transaction data together, the POS-DVR surveillance system provides visual text information to reduce shrinkage and prevent asset from losing.



through internet connection or direct COM connection.

Text Event Search

1.1.2 Main features

Besides the basic functions of Lanvision DVR system, Lanvision POS-DVR surveillance system has following special functions:

POS Text Overlay with Video: Display/hide transaction text messages on screen (video files) to supervise every transaction real-time; customize text preset positions and font.

Quick Search: Single video search and playback with transaction data.

Text Events Search: Use pre-defined transaction criteria to search in a field

filter displaying the results in a newly created System Log, e.g. all the transactions containing the keyword "coke" will be screened out. Also you can press the text to preview corresponding video image.

Events Monitor: Store all transaction data in Microsoft Access format for retroactive analysis.

1.1.3 Connection

Up to 48 POS devices can be integrated with Lanvision POS-DVR system, include COM connections (Maximum 16 devices) and TCP connections (Maximum 32 devices).



1.1.4 Pos function

Firstly, you must access **System Setup**; make sure that "POS Function" is enabling.

Number of Channels	Sensor Inputs(DI) 16	- Se	ensor outputs(DO)	-	
Audio Montoring Disable		(imera Sequencing 2		Sec
DI/DO Port COM2	System Keystroke Allow	-	Save Log For 30	÷	Days
DI/DO Device NV7616	Date Format Disal	ole 🔽	Alarm Camera	— 💌 s	Sec
POS Function Enable	▼ Time Format SatJ	an 22,2005 🝷 🛛 De	efault Camera Type N	rsc 👻	
ACU Function Enable	Alarm Beep PM 0	3:12:18 💌 Gr	ab picture save to D	\Grab\	
Dual Monitor Function Disable	HS Card 4CIF Mode Disal NETWORK SE	TUP			1
Remote Connection Enable		Rerr	note Buffer Priority sm Web Server Port 80 rrmit Max Connect 12]
Remote Connection Enable	NETWORK SE Remote Port 5100 PDA Connect Port 5101	Rerr]
Remote Connection Enable PDA Connection Disable Automatic Alarm Notification Client IP	NETWORK SE Remote Port 5100 PDA Connect Port 5101	TUP Rem Pe	Web Server Port 80]

Then open Post function setup interface by clicking "POS Function Setup" in system Manu.

Device Press this button to enter Device Setup interface;

Data Press this button to enter Data Setup interface;

Connect Press this button to enter Connect Setup interface;

Save Press this button to save the modification for all settings and

exit POS setup interface; when you modify any settings, system will not save the changes before you press this button;

Close Press this button to exit POS setup interface.

1. DEVICE SETUP

POS-DVR is a universal POS surveillance system; you can define and add any POS devices to this system; actually, every device is a type of data. For different type data, you can define different device. After that you can ass them to available list. They will be listed in the drop-list when you set rules for devices.

Device List	Available List	
Undefined	Comcash POS system	
MS Retail management system	Keico FPC-311 access control	
Integra access control	Optimus POS system	
NCR POS system	Sharp POS system	
Silverware POS system	HiPOS	
Diebold ATM 1		
Diebold ATM 2	>>>	
Micros 3700 pos system		
IDTECK Finger007p/Icon100 access		
(Paris Baguette)		
POS system		
IDTECK ITDC access control		
Toshiba POS ST-7000		
BizMaster		
Retech POS		
PAR POS		

Move Pos device from Device list to Available list. .

<<<

Remove Pos device from available list.

Add a new Pos device into Device list ,and you can rename device name by single-left click it

Delete Select Pos device which you want to delete in Device list, click this button to delete it.

Reordered the device name by the Alphabetical.

Default order

2. DATA SETUP

New / Update These two buttons are couple buttons. When there

are no items or no selected items, button will be shown.

1. In case of no any items in rule list, user can edit parameters directly and

press button **New** to add an item to rule list; then it will be replaced by

button Update

2. In case of no selected item in rule list, user can select one item and

button will be placed by button button; then user can modify the

parameters of current selected item. After that user can press button **Update** to update parameters of current item.

DetectSelect one item and press this button to delete this item.Finally, user should press buttonsaveto save modifications.

Device	Comcash P	OS system	DATA FIL	TER SETUP			
Line	Trans	Include	Exclude	Invalid	Replace	Event	Addition
Туре	Position	Offset	Operation	Length		Data	
	Priority 1	-					
	Туре	lex:▼		Opera	= 🗾 Ler	0	
	Pos	Non 🔽 Off	set 0	Data			
			New	Delete			

This rule is used to define the newline character of data from POS. When system gets the character that user set here, system will recognize it as the end of a line; then the following data will be regarded as another line.

Device	e Comcash P	OS system	•			
Line	Trans	Include	Exclude	Invalid	Replace Event	Addition
Туре	Position	Offset	Operation	Length	Data	
Hexa	End	0	=	0	0A	
	Priority					
	Phonty					
	T [7			0		
	Туре	Hex:		Opera	= <u> </u>	
	Dec.	End 🔻 Off	set 0	Data	04	
	Pos		set ju	Data	5A	

[**Priority**]: Set the priority of the rule. The smaller priority number is, the higher priority is.

[**Type**]: Choose the type of new line character from POS. Data type should be "Hex "or "ASCII"

[Pos]/ [Len]/ [Offset]: They are all optional settings and not used here.

[Opera]: Select an operator to be used when comparing character in column 'Data' with data from POS. For this setting, you should select equal ("=") as the operator.

[Data]: Set the newline character for the Data from POS.

Example:

You can set Hex data (select "Hex" in column "**Type**") "0A" as the newline character (enter "0A" in column "**Data**" and select "=" in column"**Opera**"); then when system gets the data form POS and meets hex data "0A", system will separate the data to two lines form here.

Device	Comcash P	Include	Exclude	Invalid	Replace Event Additi	on
Туре	Position	Offset	Operation	Length	Data	1
Ascii	End	0	=	0	Thank You	
	Priority 2					
	Туре	sci 💌		Opera	= <u> </u>	
	Pos E		set 0	P. I.I.	Thank You	

This rule is used to define the end character of every transaction. When system gets the character that user set here, system will recognize it as the end of a transaction; then the following data will be regarded as another transaction.

The editing procedure is same as setting Line rule.

		_	DATA FIL	TER SETUP		
Device	e Comcash P	OS system	Exclude	Invalid	Replace Event	Addition
Туре	Position	Offset	Operation	Length	Data	
Hexa	None	0	=	0	E0 00 E0	
	Priority 6			Opera	= <u> </u>	
	Pos N	lon 🗾 Of	ffset 0		E0 00 E0	
			Update	Delete	1	

Set a rule for the data from POS (line as the unit) which includes the string or character that user set here. If the data line form POS includes the string or character user set here, system will overlay this line on the screen; or system will skip this line.

The editing procedure is same as setting Line rule.

Device	Comcash P	OS system	<u>-</u>			
Line	Trans	Include	Exclude	Invalid	Replace Event	Addition
Туре	Position	Offset	Operation	Length	Data	
Ascii	None	0	=	0	WELCOME	
Ascii	None	0	=	0	TEXT SAMPLE	
	Priority 5					
	Type A	sci 💌		Opera		
	Ben A	lon 🕶 Off	set 0	Data	WELCOME	

Set a rule for excluding the data from POS (line as the unit) which includes the string or character that user set here. If the data line form POS includes the string or character user set here, system will drop this line directly.

The editing procedure is same as setting Line rule.

Note: **Exculde** rules may be in conflict with **Include** rules, system will process them according to Text filter rules priority policy.

Text filter rules priority policy

If the text filter rules setting are in conflict, the operation of the order is determined by priority, the smaller of the value, and the higher of the priority.

When the priority of **Include** is bigger than **Exclude** (The priority number of **Include** is smaller):

Case 1: Set only Include rule without Exclude rule: Data comply with Include rule ----- Reserve; Data does not comply with Include rule ----- Delete; Case 2: Set only Exclude rule without Include rule: Data comply with Exclude rule ----- Delete; Data does not comply with Exclude rule ----- Reserve; Case 3: Set both Include rule and Exclude rule: Data comply with Include rule (skip Exclude rule) ----- Reserve; Data comply with neither Include rule nor Exclude rule ---- Reserve; Data comply with Reclude rule but not Include rule ---- Reserve; When the priority of Exclude rule nor Exclude rule ----- Reserve; When the priority of Exclude is bigger than Include (The priority number of Exclude is smaller). Case 1: Set only Include rule without Exclude rule: Data comply with Include rule ----- Reserve; Data does not comply with Include rule ----- Delete; Case 2: Set only Exclude rule without Include rule: Data comply with Exclude rule ----- Delete; Data does not comply with Exclude rule ----- Reserve; Case 3: Set both Include rule and Exclude rule: Data comply with Exclude rule (skip Include rule) ----- Delete; Data comply with neither Include rule nor Exclude rule ----- Delete; Data comply with Include rule but not Exclude rule ----- Reserve; Case 4: Set neither Include rule nor Exclude rule ----- Reserve;

Line	Trans	Include	Exclude	Invalid	Replace Event	Addition
Туре	Position	Offset	Operation	Length	Data	
Hexa	Start	0	=	0	18	
	1	1				
	Priority 7	· •				
	Type H			0		
	Type	iex:		Opera	E En O	
	- F	Starl 🗾 Off	fset 0	Data	18	

Set a rule to discard a character (character as the unit) and change it to character "*". If the data form POS includes the string or character user set here, system will change it to character "*".

The editing procedure is same as setting Line rule.

Example:

You can set that system drop Hex data (select "Hex" in column "**Type**") "18" (enter "18" in column "**Data**" and select "=" in column" **Opera**"); then when system gets the data form POS and meets hex data "18", system will change it to "**".

Device	Comcash POS system	ide Invalid F	Replace	Addition
Туре	Old data	Туре	New data	Tidardori
Ascii	TH	Ascii	AB	
	Priority 3 - Type Asci - Old TH	Type Asci Data AB	-	

Set a rule to change a word or character to another one.

[**Data Type**]: Choose the type of data that you want to be replaced. Data types must be 'Hex' or 'ASCII'.

[Old Data]: Enter data string that needs to be replaced.

Note: Old data string of each item in this rule list should not be part of the Old data string of any other items. For example, Old data of item 1 is set "AA", other item should not be set "AAB" (include the old data string of item1) or "A" (included by item 1).

[New data]: Enter a new data string that will take a place of the Old Data and Null is available.

Example:

You can set that system change Hex data (select "Hex" in column "**Type**") "TH" (enter "TH" in column "**Old**") to Hex data "AB" (enter "AB" in column "**Data**"; Then when system gets the data form POS and meets hex data "TH", system will change it to "AB".

Device Comcash	DATA FILTER SETU POS system	P	
Line Trans	Include Exclude Invalid	Replace Event	Addition
Туре	Data	Notify	
Hexa	D0 AF		
Priority	4 🔽		
Туре	Hex Data	D0 AF	
	🗆 Beep 🔽 Mark 🖾 Popup		
	Update Delet	e	

Set a rule to trigger beep, mark or popup event. When the data form POS meet these items, system will trigger the event that user set here.

[Data type]: Choose a type of data. Data types must be 'Hex' or 'ASCII'.

[data]: Set Data that will trigger the operation.

[Events]: Set the events that will be triggered when the data from POS satisfies the items user set here, include beep, mark and popup, but just beep is used currently.

Example:

You can set that system Beep (check "Beep") when system gets the data form POS and meets hex data "00 0D" (select "Hex" in column "**Type**" and enter "00 0D" in column "**Data**").

Туре	Position	Offset	Operation	Length	Data	
Hexa	None	0	=	0	OD AF OD OF	
		-				
	Priority					

Set a rule to add a string or character. Editing procedure is same as Line break.

Note: All settings of the DATA SETUP will be expressed in pos monitor.

3. CONNECT SETUP

(1) Com Setup

	CONNCET SETUP
Com Setup COM1 Lan Setup Cam Setup	CONNGET SETUP Device Comcash POS syst • Name COM1 Baud 9600 • Stop 1 • Data 8 • Parity None •
	Associated Cameras
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
	Test
Device Data	Connect Save Close

All available Com ports are listed in tree view . Select the COM Port which you wan to set.

[Device]Select the Device connect to this COM Port.

[Name]Set a name for current connection

[**COM Port Parameters**]Set the parameters of COM Port, includes baud tare, stop bit, data bit and parity.

Choose Associated Camera/Cameras.

Associated Cameras have three statuses:

1 Not selected by any COM.



ý

Selected by other COM.

After setting, press "Test" button to test whether the external device is connected successfully or not and system will pop up dialog as below:



All of the original and filtered data will save if you press the button in the C:\Program Files\DVR Server\PosPara\Data, the suffixal name of the .prd is the original data and the suffixal name of the ".pud" is the filtered data.



You should use the hex viewer software to open up the file and compare the ".prd" with the .pud to check the filter rule effectively or not.

🤒 010 Editor -	[C:\Program File	s\DVR Ser	verV	PosP	ara	Date	a\LA	N1	200	8-0!	5-21	07	-17-	06.	prd]					X
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	1 2008-05-21 05	0050h:	20				20					20			20					
🗅 C:\\LAN	1 2008-05-21 05	0060h:	20			39			36	30			37		31				9256067751	
- D C:\\LAN	1 2008-05-21 06 🞽	0070h:	20	20				20	20			20			OD					
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Type	Value 🕟	OOBOh:	4F	55	52		37	2D	45	4C		56	45	4E		43		4E	OUR 7-ELEVEN CON VENIENCE CARD	
Signed Byte	13 A	00COh: 00DOh:	56 OD	45 0 A	4E 20		45 20	4E 20	43 20	45 54	20		41 4D		44 4B	20 45	20 20		TO MAKE A	
Signed Byte Unsigned Byte	13	OOEOh:	4C					20			4F				4B 55				LL OF YOUR PURCH	
Signed Short	2573	OOFOh:	41						59 20	4F 20		52 20							ASES!1	
Unsigned Short	2573	0100h:	20		40 54				20 6E	20 6F		50			53				TylenolPMXSGel	
Signed Int	538970637	0110h:	63			34	63					20			20				cp24ct	
Unsigned Int	538970637	0120h:	20	35				24	20		OA.		20		54	79	6C		5.69\$2 Tyle	
Signed Quad	23148855308184	0130h:	6E	6F				58	53	47	65		63	70	32	34			no1PMXSGe1cp24ct	
Unsigned Quad	23148855308184	0140h:	20	20				20	20				20	35	2 E			24	5.69\$	
Float	1.355585E-19	0150h:	20	OD	OA			20	54	79			6E	6F		50			TvlenolPMX	
Double	6,013470016991 👽		53	47	65		63		32	34	63	74			20				SGelcp24ct	
Auto (Template /		0170h:	20	20	20	20	20												5.69\$4	~
Selected: 2 bytes (F	Range: 40 [28h] to 41	[29h])							Sta	rt: 40) [28	h1	Sel:	2 [2H	1			S	ize: 1226 LIT W OVF	<u>ې</u> ،

Eg: You set Hex data (select "Hex" in column "**Type**") "0D 0A" as the newline character (enter "0D 0A" in column "**Data**" and select "=" in column"**Opera**"); then when system gets the data form POS and meets hex data "0D 0A", system will separate the data to two lines form here. ".. " is the sign of the newline.

Туре	Position	Offset	Operation	Length	Data	1
Hexa	End	0	=	0	OD OA	
	Priority 1	-				
	Туре	lex: 🗾		Opera	= 🛃 Len 0	

Line	Trans	Include	Exclude	Invalid	Replace	Event	Addition
Туре	Position	Offset	Operation	Length		Data	
Ascii	None	0	=	0		YOUR	
Ascii	None	0	=	0		7-ELEVEN	
ļ							
	Priority 2	2 🗸					
	Туре	Asci 💌		Opera	= 💌 L	en 0	
	Pos	Non Von	set 0	Data	YOUR		

You can set that system drop Hex data (select "ASCII" in column "**Type**") "YOUR " "7-ELEVEN" (enter "YOUR " "7-ELEVEN" in column "**Data**" and select "=" in column"**Opera**"); then when system gets the data form POS and meets ASCII data "YOUR " "7-ELEVEN", system will change it to "**".

🤒 010 Editor -	[C:\Program Fil	les'	WVR Ser	verV	Posl	Para	Wat	a\L/	N1	200	8-0	5-21	07	-17-	06.	pud]	J			
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	1 2008-05-21 05		0060h:	20	39	32	35	36	30	36	37	37	35	31	20	20	20	20	20	9256067751
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	Apiorei		OOAOh:	20	20	20	OD	20	20	20	55	53	45	20	2 A	2 A	21	2 A	20	. USE ****
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Signed Byte	32		OODOh:	20	20	54	4F	20	4D	41	4B	45	20	41	4C	4C	20	4F	46	TO MAKE ALL OF
Unsigned Byte	32		OOEOh:	20	2 A	2 A	2 A	2 A	20	50	55	52	43	48	41	53	45	53	21	**** PURCHASES!
Signed Short	8224		OOFOh:	20	20	20	20	20	OD	20	OD	31	20	20	54	79	6C	65	6E	1 Tylen
Unsigned Short	8224		0100h:	6F	6C	50	4D	58	53	47	65	6C	63	70	32	34	63	74	20	olPMXSGelcp24ct
Signed Int	858857504		0110h:	20	20	20	20	20	20	20	20	20	20	35	2 E	36	39	24	20	5.69\$
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Signed Quad	56295624262780		0130h:	65	6C	63	70	32	34	63	74	20	20	20	20	20	20	20	20	elcp24ct
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Float	4,124024E-8		0150h:	65	6E	6F	6C	50	4D	58	53	47	65	6C	63	70	32	34	63	enolPMXSGelcp24c
Double	2,186915048724 🗸	•	0160h:	74	20	20	20	20	20	20	20	20	20	20	20	35	2 E	36	39	t 5.69
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										Pos	s: 10	[Ah]		Val:	32 20	00 AC	1000	юоь	S	ize: 1196 LIT W OVR ;;

(2) LAN Setup

	CONNCET SETUP
Lan Setup	Device Comcash POS systy▼ Name LAN1
- LAN7 - LAN8 - LAN9 - LAN10 - LAN11 - LAN12 - LAN13	Protocol TCP Port 6001
	Associated Cameras
- LAN17 - LAN18 - LAN19 - LAN20 - LAN21	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
	Test

Multiple external devices can be connected with single TCP/IP connection. Each device must be given a unique port number.

Choose LAN from list firstly.

[Device] Select Device

[Name] Set a name for current connection

Change port setting to match up the device.(support TCP or UDP)

Choose Associated Camera/Cameras.

Associated Cameras have three statuses:

1 Not selected by any LAN.

Selected by current LAN.

Selected by other LAN.

After setting, press "Test" button to test the connectivity of external device be connected successfully or not .If noting comes up in Test data capturing, correct the port setting and cable connection.

(3) Cam Setup

🖙 Cam Setup	
Cam Setup	Tast
	Text Setting Font
CAM2	
	AaBbCc123
CAM4	
	Text Position X 16 Y 16
CAM7	Text Position X 10 Y 10
CAM9	Text Delay Time 3 Sec (3-8)
CAM11	Clear Screen by Transaction
	Lines Number Per Screen (1-8) 8
	Text Overlay
	Color Inverse
	Quertery Text Color (1.255)
	Overlay Text Color (1-255) 1
🔜 CAM22	
The Construction of the Co	

Firstly, choose camera number in list.

[Font]Click Browse and change font, size and color as below:

			-
		2	3
Font style:	Size:		
Regular	10	ОК	
Regular Italia	10 🔨	Cancel	
Bold	12		
Bold Italic	14		
12700	18		tion
≥ 1	120 💌		uon
Sample			n (1-8) 8
AaBb	YyZz		
Script:			
Western	-		
	Regular Regular Italic Bold Bold Italic Sample AaBb Script	Regular 10 Regular 10 Italic 11 Bold 12 Bold 16 18 20 Sample AaBbYyZz Script: Script:	Font style: Regular Italic Bold Bold Sample Script:

[Position]Setup the position of text. Default is set to top of the screen. As number increases, text will be displayed farther from the top.

[Text delay time]Set time (sec 3-8) for text to stay on screen.

[Clear screen by transaction]Keep display text until transaction break is delivered.

[Lines number per screen]Set the desired lines(1-8) to display text. Disabled if "by transaction" is displayed.

[Use overlay]When checked, camera image and data from external device is compound together (depending on external device, main display in

device can be compound as well). When unchecked, they are not compound together. However, It is still possible to verify the data and image together in the Search and remote access.

1.1.5 Pos Event Monitor

Access Pos monitor interface:

All connection details display on table:

			ACU&POS Mo	nitor	x
Pos Device(1) LAN1	ID	POS Index	POS Name	POS Type	
LAN1	1	11	LAN1	LAN	
DOC Dat					
POS Set					

Select the POS which you want to set and press the "POS Set" button.

ACU&POS Parameter Setup POS Field Filter Setup
 Show ACU&POS Server Max Show Record Count 1000 Max Search Record Count 1000 Play Back Set
Forward Time 5 🜩 sec Back Time 5 🌩 sec
Save
Exit

Max Search Record Count	1000	•

The toolbar can set the POSRecord Count to display, the max count is 1000

D	Key Word		
	ELEVEN		Key Word ELEVEN
>	LLLVLI		na) nord
2 3			25223
1			Color clRed 🗸
5			
5			Only Work Between
7			
3			
)			7:00:00 PM 📫 🚽 12:00:00 PM 🚔
0			
1			Enable Alarm
2			Enable Alarm
3			Alarm Output
4			
5			
6			¥
7 8			
9			Alert Message
20			Alert Message
21			
22			
23			
24			
25			Save
26			Clave
27		~	

The diagram can set the POS Field Filter, such as: the color of ELEVEN in the keyword is set cored and the work time between 2:00:00 and 23:59:59, if the ELEVEN appears in the periods, it will display in clred.the same as the Alarm Output

		ACUS	POS Monitor	(
Pos Device(2)	ID	Time	Content	Alarm
COM1	1	5/9/2008 10:22:26 AM	7-ELEVEN	1
LAN1	2	5/9/2008 10:22:27 AM	1339 N VASCO RD	
Acu Device(1)	3	5/9/2008 10:22:28 AM	LIVERMORE CA 945509287	
LAN1	4	5/9/2008 10:22:29 AM	9256067751	
	5	5/9/2008 10:22:30 AM	STORE#: 32266	
	6	5/9/2008 10:22:31 AM	USE YOUR 7-ELEVEN CONVENIENCE CARD	
	7	5/9/2008 10:22:32 AM	TO MAKE ALL OF YOUR PURCHASES!	
	8	5/9/2008 10:22:33 AM		
	<			

Select a record, and double-clicked, It will display the period bases on the Forward time and Back time Compared to the time which the count is recorded.

