

QT-600 AND Zeus II ATM FUNCTION HANDLING AND CONFIGURATION

The ATM and POS function of the QT-600 and Zeus II works as a network sniffer. The DVR ATM function monitors the network traffic, and according to the values configured in the ATM function, it takes, displays (only in full screen preview) and associates the recorded video files to this information.

To configure this function in the DVR you have to have:

- Complete knowledge about the streams structure that the ATM send through the network.
- The streams sent by the ATM or POS machine cannot be encrypted; if these streams are encrypted the DVR won't be able to read and de-encrypt this information.

This document will illustrate you about how to configure the DVR parameters in order to link the information sent by the ATM/POS machine to a video file.

First we will take and analyze an example of a stream using a network analyzer software to know the stream structure; this stream it's a .cap stream which is like the ones sent by ATM machines.

The screenshot shows a network analyzer interface. On the left, the 'TCP header (.AP...)' is expanded, showing details like Destination IP Address (10.10.5.80), Source port (2722), Destination port (6094), and Sequence number (1713273). The 'Data' field is highlighted with a red circle and labeled 'Data: 212 bytes'. On the right, a hex dump of the data is displayed, with a red box highlighting a portion of it. The hex dump shows a sequence of bytes, including ASCII characters like 't.5..E.', 'K...', 'P...', 'ACWD034402', and '622188'.

Things that you must know from the data stream to configure in the DVR ATM function:

- Source IP address (ATM IP address)

click here to show source IP information

- Source and destination ports
These ports must be configured in the DVR ATM function
- Stream data structure and where is the desired information of this stream.

```
"8....ACWMD034402
0000001020622188
6020004511351=00
0012045106000009
9622188602000451
1351=15615600000
0000000000300000
0114141400001=00
0000000000=00000
00000000=00000004
510600017360=298
026=>6: 66220174<
: 272=: 8?31>29?9=
4: ?2098300
```

Once you have identified all this information, now you can proceed to the ATM configuration function in the DVR.

To enable and configure the ATM function in the DVR, please proceed as follows:

1. access into the ATM configuration menu; for this please follow this path:

main menu → advanced → ATM

Once you are inside the DVR ATM configuration menu, please proceed as follows:

2. Select the data group that the DVR will sniff from the Network, then type the source and destination IP addresses.

ATM/POS

Group: 1 (dropdown) **ATM IP ADDRESS**

Source IP: 0 . 0 . 0 . 0

Destination IP: 0 . 0 . 0 . 0 **DVR IP ADDRESS**

Source Port: 0

Destination IP: 0

Record: 1 2 3 4 5 6 7 8

	Start Position	Length	Key	
Frame ID1	1	0		Data
Frame ID2	1	0		Data
Frame ID3	1	0		Data
Frame ID4	1	0		Data
Frame ID5	1	0		Data
Frame ID6	1	0		Data

Save Cancel

3. if you know the transmission where the data stream will be transmitted please configure them in the source and destination ports; if you don't know these ports values leave them as zero.

ATM/POS

Group	1	
Source IP	0 . 0 . 0 . 0	Source Port 0
Destination IP	0 . 0 . 0 . 0	Destination Port 0
Record	1 2 3 4 5 6 7 8	

That means that the DVR will check the information that passes through all ports.

- Then click on the channel or channels number to enable the recording function for the selected channels.
- Now according to the stream structure, input the stream start position length and key value in the frame ID that you want to configure.

THE INITIAL CHARACTER OF THIS STREAM IS IN THE FIRST POSITION IS ONLY ONE CHARACTER AND IT'S VALUE IS "A"

	Start Position	Length	Key	
Frame ID1	1	0		Data
Frame ID2	1	0		Data
Frame ID3	1	0		Data

****Note: the information in this picture is an illustrative example of how to configure this function****

There are different kind of data for different operations, so we have several Frame ID's for you choose, every Frame ID means a certain rule.

- once typed the Frame ID information in the DVR, then click on the **Data** button

ATM/POS

Group: 1

Source IP: 0.0.0.0 Source Port: 0

Destination IP: 0.0.0.0 Destination Port: 0

Record: 1 2 3 4 5 6 7 8

Frame ID	Start Position	Length	Key	Data
Frame ID1	1	0		Data
Frame ID2	1	0		Data
Frame ID3	1	0		Data
Frame ID4	1	0		Data
Frame ID5	1	0		Data
Frame ID6	1	0		Data

Save Cancel

	Start Position	Length	Title
Field 1	21	19	A
Field 2	41	5	T
Field 3	8	4	Amount
Field 4	0	0	

Save Cancel

There are 4 fields that you can set to show the card information (you can set less than 4 fields according your needs) Choose offset and length for the information you want to show in the video, you can set title for each information according to the captured transaction.

In these data field you must configure the required information offset or start position inside the data stream and the length.

```
"8...ACWD034402
0000001020622188
6020004511351=00
0012045106000009
9622188602000451
1351=15615600000
0000000000300000
0114141400001=00
0000000000=00000
00000000=00000004
510600017360=298
026=>6:66220174<
:272=:8?31>29?9=
4: ?2098300
```

	Start Position	Length	Title
Field 1	21	19	Account
Field 2	41	5	Trans
Field 3	8	4	Amount
Field 4	0	0	

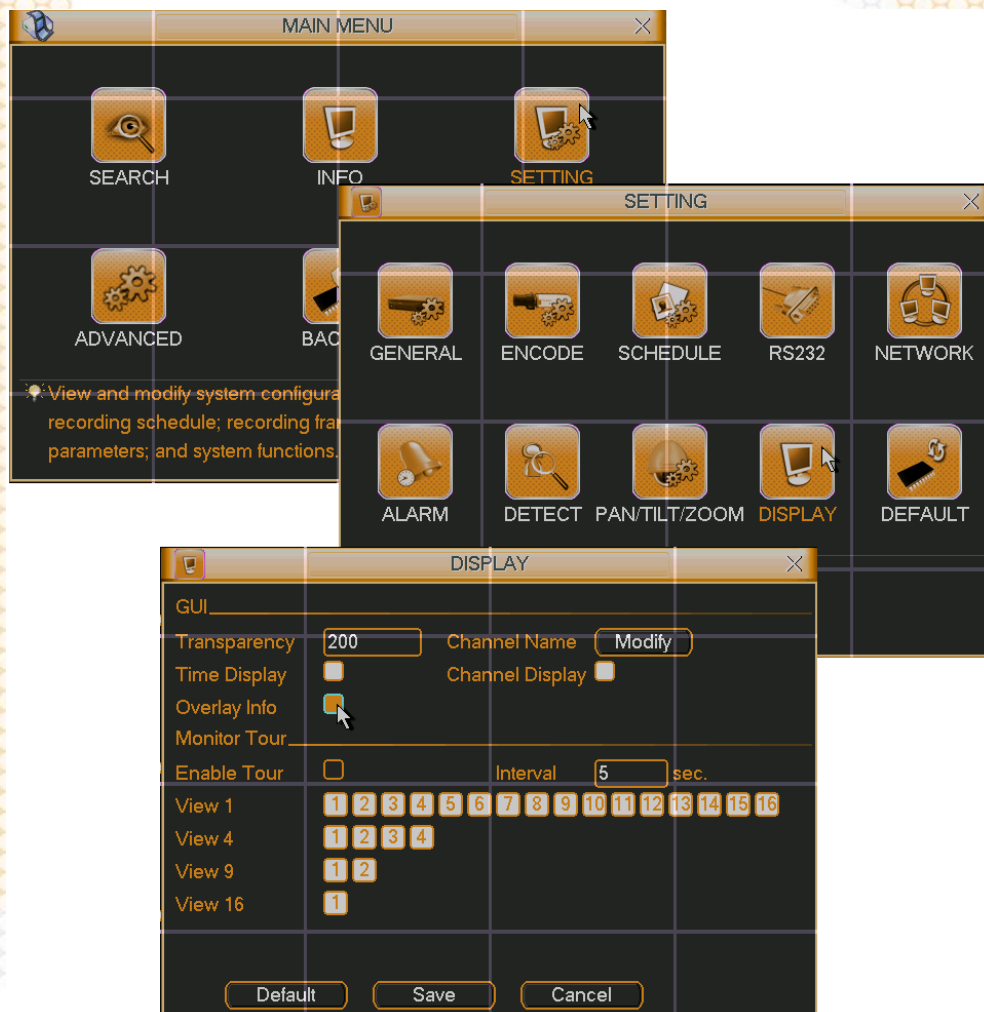
Save Cancel

Check that for this example the information configured in the **field 1** starts in the 21st position and it has a length of 19 characters; the same way for all the other two fields.

Then click on the **"SAVE"** button to save changes.

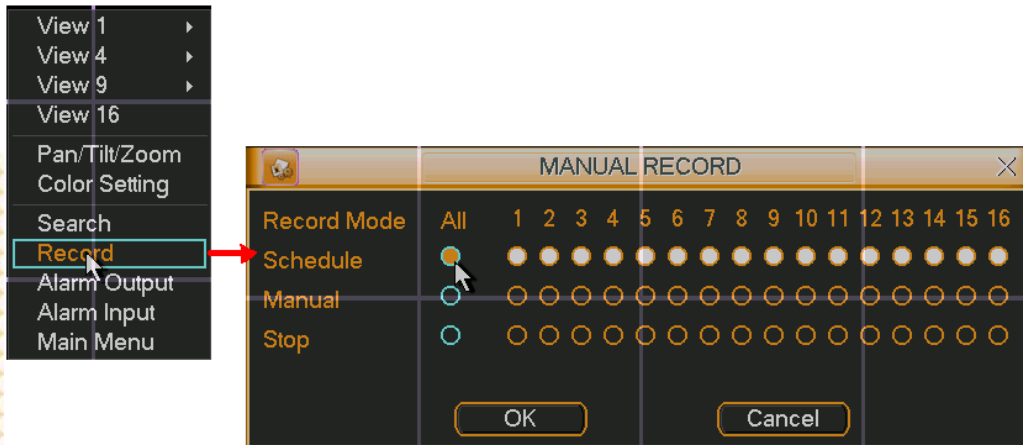
7. Now go to the **"DISPLAY"** submenu, to access to this menu please follow this path

MAIN MENU → SETTINGS → DISPLAY



Make sure that the overlay info check box icon is enabled (in white), otherwise the information won't be displayed.

8. Be sure that all the recording setting of the DVR are in **Schedule mode**.



9. Now that you have completely configured the ATM function you can proceed to search the event in the DVR (for more information about how to perform a playback search, please refer to the DVR user manual).

The video should be displayed as follows:

