PACOM 2030

Data Files Structure

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PROGRAM INVOCATION

PROGRAM EXECUTION

Command line

To load and execute program from dos prompt it is necessary to type "p2030 ppppp", where ppppp is an optional command line parameter that invokes a user setup file.

COMMAND LINE PARAMETER

Command line parameter

When a command line parameter is not specified, the system uses default parameter files (2030_dft.xxx) that exist in the current directory (xxx signifies all files with same names and different extensions). If those files are not accessible in the current directory, default system values are used by the program. User setup files are used instead of default files when specified by the command line parameter. For example: when invoking the program when typing at the DOS prompt "P2030 YYYY" - the system looks for a user file "YYYY.xxx" instead of "2030_dft.xxx" (.xxx is the filename extension).

The following types of user setup files can be loaded at the command prompt.

TYPOGRAPHY

Example:

2222`2`111**`2222`222`1111**`--->1

- Parameters written in normal font are used by P2030 ver. 6.xx.yyy
- · Sections written in **bold font** are additional parameters used by P2030 ver. 7.xx.yyy
- · Parameters written in *italics font* are defined as a comments.

FILE PARAMETERS

ALARM FILE - .alm

Alarm parameters

First line: The data file is stored in ASCII format, and contains fields associated with any defined alarm source, in the order of physical alarm inputs. The valid separator for each field is the quote mark `(char 96, 60 hex). Each alarm input requires two lines containing fields in every alarm file.

The first line consists of nine fields in the following order:

- Logical Alarm Input Number,
- Alarm Ident Message,
- Macro Logical Number (executed when the alarm is activated),
- and six fields containing six numbers describing
 Operator Access Status,
- comments generated by 2040 (if applicable).

The second line contains the following fields:

- Alarm Auto Reset Time (in seconds),
- Alarm Dwell Time (in seconds for last arm monitor when Alarm Mode is set to 1 or 2),
- a series of fields containing Logical Camera Numbers and Preset Numbers associated with the alarm input (ie: cam`prst`cam`prst`... etc.),
- Alarm Monitors Group Number (up to 5 groups can be defined).

Example:

First line:

2222`ALM IDENT 222

`12`65535`0`0`0`0`0`---->*1*

Second line:

1`2`111`1`222`2`333`3`444`4`555`5**`3**`

CAMERA and LINKED CAMERA FILE - .cam / .lcm

Camera and Linked Camera parameters

The data file is stored in ASCII format, and contains fields associated with any defined video source, in the order of physical video inputs. The valid separator for each field is quote mark `(char 96, 60 hex). Each video input requires a line consisting of data fields in the camera file.

The fields are in the following order:

- Logical Camera Input Number,
- Ident Message,
- Camera Control Decoder Port Number,
- Camera Control Decoder Address,
- a field representing Auxiliary Latching Function for this decoder,
- six fields describing Operator Access Status,
- an Alarm Number to represent video loss functions,
- a Gpi Logical Number,
- a field representing source of the video,
- ten fields for Alternate Cameras,
- three fields for **lens control** (**Zoom**, **Focus**, **Iris** respectively),
- Unique number for connected Pelco 6700 switcher,
- comments generated by 2040 (if applicable).

Example (one continuous line)

111 CAM IDENT 12 4 240 65535 0 0 0 0 0 0 111 22 0 14 32 31 789 3 7 19 9 27 1 0 1 ----> 1

MONITOR FILE - .mon

Monitor parameter

The data file is stored in ASCII format, and contains fields associated with any defined video destination, in the order of physical video outputs. The valid separator for each field is quote mark ` (char 96, 60 hex). Each video output requires a line consisting of data fields in the monitor file.

The fields are in the following order:

- Logical Monitor Output Number,
- Ident Message
- six fields describing Keyboard Access Status.

If the setup is for a **networking** port, the **Logical Monitor Number** will be 0 and two extra fields must be filled. The first field consists of

- the External Node Number and the next field is
- the **Input Number** on the node to which the output is connected to
- Camera Logical Number which will be selected upon program start ups.

If concealed text is being used, the next field is

- the Frame Address of the 3170 Decoder, then
- the address of the Amplifier,
- a field representing destination of the video,
- a Gpi Logical Number,
- Port Number to which Video Multiplexer is connected,
- comments generated by 2040 (if applicable).

Example (one continuous line):

1 IDENT 1

`0`0`65535`0`0`0`1**`**2`3**`11`12`1`22`4**`--->1

GENERAL PURPOSE INTERFACE FILE - .gpi

GPI parameters

The data file is stored in ASCII format, and contains fields associated with any defined G.P.I. The valid separator for each field is quote mark ` (char 96, 60 hex). Each G.P.I. input requires a line consisting of fields in the gpi file.

The fields are in the following order:

- GPI Logical Number,
- bit pattern representing the **GPI** latched or momentary state
- six fields describing Operator Access Status
- comments generated by 2040 (if applicable).

Example:

1`170`0`65535`0`0`0`0`---> 1

COMMS FILE - .scp

Comm parameters

The data file is stored in ASCII format, and contains fields associated with any defined serial communication ports, in the order of physical ports. The valid separator for each field is the quote mark ` (char 96, 60 hex). Each port requires two data lines consisting of fields in every scp file.

The first line consists of the following fields in the order:

- Port Access Identification Number (Equipment or PIN number)
- Several Communication Parameters,
- Keyboard Number for this port,
- empty field,
- Logical Macro Number (Start macro executed when operator log in),
- Logical Macro Number (End macro executed when the last alarm is cleared),
- comments entered by user (P2040 utility),
- comments generated by 2040 (if applicable).

The second line consists of several fields containing **Logical Monitor Numbers** assigned for alarm handling routines. The monitor numbers are arranged in 5 groups divided by empty field.

Example:

first line:

100`6171`4`1`22`33`Test Port 1

`---> 1

second line:

1`2`3`4`5`6`7`8`9`10`0`10`11`12`13`14`15`16`17`18`19`0`20 21`22`23`24`25`26`27`28`29`0`30`31`32`33`34`35`36`37`38` 39`0`40`41`42`43`44`45`46`47`48`49`0`

MACRO DEFINITIONS FILE - .mac

Macro parameters

The data file is stored in ASCII format, and contains fields associated with any defined macro. The valid separator for each field is the quote mark `(char 96, 60 hex).

The first line consists of:

- a Logical Macro Number,
- six numbers representing Operator Access,
- comments entered by user (P2040 utility),
- comments generated by 2040 (if applicable).

The following lines consist of:

- A Command
- the Associated Parameters that are executed as steps in a program. Every macro program is completed with an END statement. END is followed by the next macro program (if one is defined by the user). The number of steps in any macro program cannot be greater than 130 (this includes the END statement). All statements must be in upper case format.
- comments generated by 2040 (if applicable).

```
Example:
```

first line:

1`0`0`0`65535`0`0`test macro`---> 1

following lines:

SWT`1`111`0`0`0`----> 1 AUX`0`0`0`0`0`----> 2

MIMIC PANEL FILE - .mim

Mimic panel parameters

The data file is stored in ASCII format, and contains fields associated with any defined Mimic button in order of the physical position of the switch. The valid separator for each field is quote mark ` (char 96, 60 hex). Each mimic input is allocated a line consisting of a few fields in the .mim file.

The fields are in the following order:

- Logical Macro Number,
- a series of fields consisting of Logical Monitor Numbers, Camera and Preset Numbers respectively,
- the **Keyboard** assigned to the button,
- the **Keyboard** to be updated flag,
- comments generated by 2040 (if applicable).

Example:

1`11`2222`3`22`3333`4`33`4444`5`0`0`0`0`0`0`1**1`1**`---> 1

SYSTEM FILE - .sym

System parameters

The data file is stored in ASCII format, and contains parameters used during initialization of the

system. The valid separator for each field is quote mark `(char 96, 60 hex). The sym file consists of three lines. Each line in the sym file consists of fields, which contain parameters that activate or deactivate system functions.

Line 1: The fields are in the following order:

- Diagnostics screen update on/off,
- Printer on/off,
- System Error display yes/no,
- Alarm Mode,
- default Alarm Dwell for last monitor in alarm mode 1 and alarm mode 2,
- Macro Number (when last alarm registered by system is reset),
- Print Options: Print Assignment Option,
- Print Alarm Option,
- Print System Message Option,
- Print Gpi Option,
- Print Logging Information,
- Print Video Loss,
- Video Loss Option (report as Video Loss with monitor information or Alarm),
- Time Format,
- Print Option: Print Message Option,
- GPI Selection (2013 Serial, 2013 Parallel, 2012).
- Auto Override Option: (When ON, an operator will automatically get control of a camera if they have a higher (or equal) priority than the operator currently using the camera).
- Network Alarm Option: (gives the option of whether to send alarms throughout the network)
- Print Operator Number Option: (force the system to print out an operator number instead of the operator's PIN),
- **High Level Interface Acknowledgement** to send ACK to the port if set.

Line 2: The fields are in the following order:

- Camera Ident Display Horizontal Position,
- Camera Ident Display Vertical Position,
- Two bytes for Camera Ident Attributes,
- Monitor Ident Display Horizontal Position,
- Monitor Ident Display Vertical Position,
- Two bytes for Monitor Ident Attributes
- The last four fields are reserved for backward compatibility.

Line 3: The fields are in the following order:

- Camera Controllability Display Horizontal Position,
- Camera Controllability Display Vertical Position,
- Two bytes for Camera Controllability Attributes,
- Time & Date Display Horizontal Position,
- Time & Date Display Vertical Position,
- Two bytes for Time & Date Attributes,
- Alarm/Special Message Display Horizontal Position,

- Alarm/Special Message Display Vertical Position,
- Two bytes for Alarm/Special Message Attributes.
- One byte reserved for future interface.

Example:

line one:

1`1`1`3` 33`1111`0`0`0`1`1`1`A`2`0`0`1`1`0`**1**`

line two:

 $0^0^0^32^0^0^32^0^0^0^0$ (last four fields are reserved)

line three:

0`0`0`32`0`0`0`32`0`0`0`32`0` (last byte is reserved)

MESSAGE FILE - .msg

Message parameters

The data file is stored in ASCII text format, and contains two fields. The valid separator for each field is quote mark ` (char 96, 60 hex). There can be a maximum of 50 messages in the .msg file.

The fields are in the following order:

- Text Message (ASCII),
- Print Operator PIN with the message (activate/ deactivate).
- comments generated by 2040 (if applicable).

Example:

```
Macro 1 Programmed '11 `---> 1 Alarm 3 Activated `1`---> 2 etc.
```

PIN FILE - .pin

PIN parameters

The data file is stored in ASCII format. Each pin is associated with several fields located in a single line of the pin file. The valid separator for each field is quote mark ` (char 96, 60 hex).

The fields are in the following order:

- PIN Number,
- Operator Number,
- Priority and
- Logical Macro Number
- comments generated by operator (Pacom 2040 utility).

Example:

```
111`3`1`3`OPR 1
232`3`2`2`OPR 2
```

NIU FILE - .niu NIU parameters

The data file is stored in ASCII format, and contains fields associated with any defined serial communication ports, in the order of physical ports. The valid separator for each field is the quote mark `(char 96, 60 hex).

The line consists of the following fields in the order:

- Port Access Identification Number (Equipment number)
- Several Communication Parameters,
- comments entered by user (P2040 utility),
- comments generated by 2040 (if applicable).

Example:

```
1 `3075`Node 1 `---> 1
2 `3075`Node 2 `---> 2
0 `3075` `---> 3
0 `3075` `---> 4
5 `3075`Node 5 `---> 5
40`3075`Pacom 2040 `---> 6
41`3075`Pacom 2032 `---> 7
```

MATRIX FILE - .mtx

Matrix parameters

The data file is stored in ASCII format as a floating-point number. Each line (up to 16) of the file is associated to the row of the video matrix bays. The four fields of each line specify port numbers used to connect the video matrix bay to the system. The valid separator for each field is quote mark ` (char 96, 60 hex).

The fields are in the following order: Up to 16 lines with 4 fields in each

• CPU port.Expander port,

Example:

```
5.1`5.2`5.3`5.4`
5.5`5.6`5.7`5.8`
```

FILE DESCRIPTION

ALARM FILE PARAMETERS

Alarm file

```
The first data line is:-
Logical alarm input number:
Any integer number from 1 to 9999.
Alarm input ident:
Alphanumeric text up to 24 characters.
Macro logical number activated when alarm triggered:
Any integer number from 1 to 999.
Operator access numbers:
1st number representing bit pattern as follows;
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bits
  | | | | | | | | | | x - Opr1
              | | | | | | | x - Opr2
              | | | | | | x - Opr3
              | | | | | x - Opr4
              | | | | x - Opr6
       | | | | | x - Opr7
       | | | | x - Opr8
       | | | x - Opr9
       | | | x - Opr10
    | | | x - Opr11
  | | | x - Opr12
       x - Opr13
  x - Opr14
  x - Opr15
x - Opr16
2nd number represents operators 17 to 32,
3rd number represents operators 33 to 48,
4th number represents operators 49 to 64,
```

When bit is set (1) then the particular operator can access the nominated alarm structure, if the bit is reset (0) then the operator will have no access to the defined source.

5th number represents operators 65 to 80, 6th number represents operators 81 to 96,

The second data line is:-

Alarm auto reset time:

Any number of seconds from 1 to 9999.

Dwell time:

Any number of seconds from 1 to 9999.

Camera logical number: Any number from 1 to 9999.

Camera preset number: Any number from 1 to 99.

Alarm monitors group number: Any number from 1 to 5.

CAMERA and LINKED CAMERA FILE PARAMETERS

Camera and Linked
Camera file

```
Logical video input number:
Any integer number from 1 to 9999.
Video input ident:
Alphanumeric text up to 24 characters.
Camera control port number:
Any integer number from 1 to 36.
Camera control decoder address:
Any integer number from 1 to 16 (if a port expander is
attached, 1 to 128).
Auxiliary latching function:
Represented by the following bit pattern.
 7 6 5 4 3 2 1 0 - bit position
 | | | | | | x - Aux 1
 | | | | x - Aux3
 | | x - Aux6
 | x - Aux7
```

When bit is set (1) the selected auxiliary function has a latched action, if the bit is reset (0) then selected auxiliary function has momentary action.

x - Aux8

Operator Access

```
1st number representing bit pattern as follows;
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bits
          | | | | | | | | x - Opr1
               | | | | | | | | x - Opr2
               | | | | | | | x - Opr3
               | | | | | x - Opr4
               | | | | x - Opr7
       | | | | | x - Opr8
       | | | x - Opr9
       | | x - Opr10
       | | x - Opr11
    | | x - Opr12
  | x - Opr13
  | x - Opr14
   x - Opr15
x - Opr16
2nd number represents operators 17 to 32,
3rd number represents operators 33 to 48,
4th number represents operators 49 to 64,
5th number represents operators 65 to 80,
6th number represents operators 81 to 96,
When the relevant bit is set (1) the particular operator
can select the nominated video source, if the bit is
reset (0) then the operator will have no access to the
defined source.
Logical alarm number (representing video loss function):
Any integer number from 1 to 9999.
GPI logical number:
Any integer number from 1 to 9999.
Input source of video:
"0" is Camera
"1" is VCR
"2" is Video Multiplexer
"3" is Link Camera
Alternate cameras:
Ten fields for the logical numbers of Alternate cameras
Lens control:
(i) zoom, (ii) focus, (iii) iris.
"0" is normal, "1" is reverse
Unique number for Pelco 6700 switcher:
Any integer number from 1 to 9999.
```

Operator access numbers:

MONITOR FILE PARAMETERS

Monitor file

```
Logical video output number:
Any integer number from 1 to 99.
Video output ident:
Alphanumeric text up to 24 characters.
Keyboard access numbers:
1st number representing bit pattern as follows;
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bits
     | | | | | | | | | | | x - Kbd1
                   | | | | | | x - Kbd2
                 | | | | | x - Kbd3
               | | | | | | x - Kbd4
             | | | | | | x - Kbd5
            | | | | | x - Kbd6
        | | | | | x - Kbd7
        | | | | x - Kbd8
        | | | x - Kbd9
       | | | x - Kbd10
     | | | x - Kbd11
  | | x - Kbd12
    x - Kbd13
     x - Kbd14
   x - Kbd15
x - Kbd16
2nd number represents keyboards 17 to 32,
3rd number represents keyboards 33 to 48,
4th number represents keyboards 49 to 64,
5th number represents keyboards 65 to 80,
6th number represents keyboards 81 to 96,
When bit is set (1) then the particular keyboard can
select the nominated video output, if the bit is reset
(0) then the keyboard will have no access to the defined
video output.
For networking option only:-
Two extra parameters are required.
Set logical video output number to 0.
External node to be connected to:
Any integer number from 1 to 24.
Video input number on external node to which the output
is connected:
Any integer number from 1 to 967.
```

Logical camera number to switch upon start up: Any integer number from 1 to 9999.

For concealed text option only:two extra parameters are required.

Frame address of 3170 decoder: Any integer number from 0 to 255.

Amplifier address:
Any integer number from 1 to 15.

Destination of video output: "0" is Monitor
"1" is VCR
"2" is Video Multiplexer.

GPI logical number:
Any integer number from 1 to 9999.

Video Multiplexer control port number: Any integer number from 1 to 36.

GENERAL PURPOSE INTERFACE PARAMETERS

GPT file

When bit is set (1) the selected auxiliary function has a latched action, if the bit is reset (0) then selected auxiliary function has momentary action.

Operator Access

```
Operator access numbers:
1st number representing bit pattern as follows;
```

```
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bits
      | | | | | | | x - Opr2
            | | | | | | x - Opr3
            | | | | | | x - Opr4
           | | | | | x - Opr5
            | | | x - Opr7
          | | | x - Opr8
      | | | x - Opr9
     | | | x - Opr10
    | | | x - Opr11
  | | x - Opr12
   | x - Opr13
  | x - Opr14
  x - Opr15
x - Opr16
```

```
2nd number represents operators 17 to 32, 3rd number represents operators 33 to 48, 4th number represents operators 49 to 64, 5th number represents operators 65 to 80, 6th number represents operators 81 to 96,
```

When bit is set (1) then the particular operator can select the nominated GPI, if the bit is reset (0) then the operator will have no access to the defined GPI.

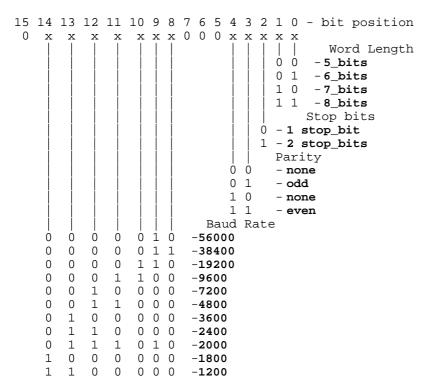
Comms file

The first data line is:-

Port identification number: Any integer number from 1 to 9999.

Comms parameters:

A number representing the bit pattern as follows;



Keyboard number associated with this port: Any integer number from 1 to 96.

Empty field

Logical macro number executed on initialisation (start macro):

Any integer number from 1 to 9999.

Logical macro number executed when the last alarm reported to this keyboard is cleared (end macro) if keyboard is attached to the port:

Any number from 1 to 9999.

Second data line:-

Five groups of Armed monitors including reserved field: 10 logical video output numbers from 1 to 99, Empty field.

Macro file

MACRO PARAMETERS

```
Macro number:-
Any integer number from 1 to 9999.
Operator access numbers:-
1st number represents the bit pattern as follows:-
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bits
       | | | | | x - Opr1
                  | | | | | | | | x - Opr2
              | | | | | | x - Opr3
              | | | | | x - Opr4
              | | | | x - Opr5
              | | | | x - Opr6
            | | | x - Opr8
       | | | x - Opr9
      | | | x - Opr10
     | | x - Opr11
          x - Opr12
       | x - Opr13
  | x - Opr14
  x - Opr15
x - Opr16
2nd number represents operators 17 to 32,
3rd number represents operators 33 to 48,
4th number represents operators 49 to 64,
5th number represents operators 65 to 80,
6th number represents operators 81 to 96,
When bit is set (1) then the particular operator can
```

When bit is set (1) then the particular operator can select the nominated macro, if the bit is reset (0) then the operator will have no access to the macro.

Program Statements and description

Command

Command	Description
ARM`alm	Arm alarm input.
AUX`cam`aux`swt	Switch on/off auxiliary function.
CMC`mnum	Execute a selected macro while
	keeping the current one running.
DAR`alm	Disarm alarm input.
DWL`sec	Time spent in program step. Next
	step is executed when dwell time
	has elapsed.
END	Terminate macro execution
	(end of program mark).
GPI`gpi`aux`swt	Switch on\off GPI output.
LOP	Loop back to first statement.
MDW`cam	Tilt down camera.
MUP`cam	Tilt up camera.
MVL`cam	Pan camera left.
MVR`cam	Pan camera right.
PRS`cam`prs	Move to preset position.
RDW`lim	Execute next step when random time
	_

Description

has elapsed.

RPR cam plm Move to randomly selected preset.

SMC `mnum Terminate current macro and

> execute selected one. Stop decoder movements.

SWT`mon`cam Switches a camera to a monitor. TIM`hh:mm:ss Go to next statement at this time.

SPM`mnum Stop Macro execution. DRR`frmalm`anum Disarm range of alarms. ARR `frmalm `anum Arm range of alarms.

RCG Reset global alarms for armed

operators.

CCO`mon Copy assignment of current monitor

to selected one.

Is GPI in a selected state. ?GP`gpi`aux`swt ?SW`mon`cam Is camera switched to monitor.

GTO`num Go to step number. COM`mon`mon Copy monitor assignment.

DAT`yy:mm:dd DOW`dnum Step if date.

STP cam

Step if day of week.

COC `mon Copy monitor assignment to current

monitor.

Print selected message. MSG`msgnum DAK`alm`opr AAK`alm`opr Disarm alarm for keyboard. Arm alarm for keyboard.

TOR `mon `cam Similar to SWT, but while this Step Command is running, the FWD

and BWD buttons on the 2035

keyboard will only switch one at a time to the next/previous camera

programmed into the tour.

TPR `mon `cam Same as TOR but each camera in the

> tour will automatically be repositioned to preset position

one. If preset position one has not been programmed the camera will remain in the

current position.

RAK`kbnum Resets all alarms on a 2035

keyboard.

SNT `mnum Exactly the same as SMC (stops the

macro currently running and starts a new macro) ["mnum" is the number

of the new macro].

Exactly the same as CMC (starts CSN mnum

> another macro running. Does not stop the macro currently running) Exactly the same as SPM (stops a

macro).

SPS`mnum

KOF`kbnum Logs off a keyboard.

Same as SWT (switches a camera to PMS cam pmon a monitor). However PMS requires

> the physical number of the monitor, not the logical number.

GPM `gpi `aux `range Triggers a range of relays on-and-

off.

CLG `group Clear previously defined operator

group.

DGO `group `opr Assign (define) operator to the

group.

AAG alm group Arm alarm for operators assigned to

the group.

DAG`alm`group Disarm alarm for operators assigned

to the group.

RAM alm Reset alarm. ?AT`alm Is alarm triggered.

CSM pmon Clear special message (alarm

message) on monitor (physical

number).

MPT cam num Start execute camera pattern. SPT cam Stop execute camera pattern. ?AX`cam`aux Is AUX function activated.

MID `pmon `fnct Control monitor (physical number)

ident display

fnct = 0 - toggle on/offfnct = 1 - ident on fnct = 2 - ident off.

where;

- logical alarm number, alm logical output number,logical input number, mon cam

- operator number from 1 to 96, opr - auxiliary number from 1 to 8, - number 0 for off and 1 for on, aux swt - preset number from 1 to 99, prs

- GPI number, gpi hh:mm:ss - time format, - number of seconds, sec mnum - logical macro number,

- time limit for random functions, lim

plm - preset limit number, - from alarm number, frmalm

- number of alarms to be armed, anum

the number of the message to be printed,keyboard number, msgnum

kbnum

- day number from 0 to 6 (0 for Sunday), dnum

yy:mm:dd - date format.

- integer number (1-31) indicating how many to range

be done after the logical number

pmon - physical monitor number

MIMIC PANEL PARAMETERS

Mimic file

```
Logical macro number:
Any integer number from 1 to 9999.

Up to 5 monitors and cameras with presets as follows;

Logical monitor number:
Any integer number from 1 to 99.

Logical camera number:
Any integer from 1 to 9999.

Preset number:
Any integer number from 1 to 99.

Keyboard number:
Any integer number from 1 to 96.

Flag indicating that keyboard has to follow mimic panel.
```

SYSTEM PARAMETERS

System file

```
First line:-

Diagnostics:

yes = 1, no = 0.

Printer installed:
yes = 1, no = 0.

Display system error messages:
yes = 1, no = 0.

Alarm mode:
Any number from 1 to 4.

Default alarm dwell:
Time in seconds from 1 to 99.

Alarm termination macro number.
Any integer number from 1 to 9999.
```

```
Print Options:
Print monitor assignments:
yes = 1, no = 0.
Print alarm information:
yes = 1, no = 0.
Print system error messages:
yes = 1, no = 0.
Print GPI functions:
yes = 1, no = 0.
Print logging information:
yes = 1, no = 0.
Print video loss information:
yes = 1, no = 0.
Display video loss status information:
Options:- A, C, V followed by number from {\bf 1} to {\bf 99}
Where:-
A - Display video loss on alarm monitor.
 \boldsymbol{v} - Display video loss on selected monitor.
```

C - Display video loss on operator (current) monitor.

```
Time format:
```

Any integer number from 0 to 9.

An example of selectable time formats are shown below.

TIME FORMATS

- 0 26/09/0917:56:* 1 - 09/26/92 17:56:* 2 - 26/09/92 05:56:* PM 3 - 09/26/92 05:56:* PM 4 - 26th Sep 92 17:56:* 5 - 26th Sep 92 05:56 PM 6 - 26th September 92 17:56 7 - September 26th '92 17:56 8 - Tue 22nd Sep '92 17:56 9 - Tue 22nd Sep 92 05:56:PM
- where, * indicates seconds field included.

Print special message option:

yes = 1, no = 0.

Selection of the GPI unit:

- 0 Pacom 2013 Serial communication,
- 1 Pacom 2013 Parallel communication,
- 2 Pacom 2012.

Auto override control:

yes = 1, no = 0.

Network alarm activated:

yes = 1, no = 0.

Print operator numbers:

yes = 1, no = 0.

High Level Acknowledgement:

yes = 1, no = 0.

Second Line:-

Camera display horizontal position: Any integer number from 0 to 23.

Camera display vertical position: Any integer number from **0 to 11**.

Camera display attributes 0: See table below.

Camera display attributes 1: See table below.

Monitor display horizontal position: Any integer from 1 to 23.

Monitor display vertical position: Any integer number from **0 to 11**.

Monitor display attributes 0: See table below.

Monitor display attributes 1: See table below.

Third Line: -

Camera controllability display horizontal position: Any integer number from ${\bf 0}$ to ${\bf 23}$.

Camera controllability display vertical position: Any integer number from **0 to 11**.

Camera controllability display attributes 0: See table below.

Camera controllability display attributes 1: See table below.

Time & date display horizontal position: Any integer number from 0 to 23.

Time & date display vertical position: Any integer number from **0 to 11**.

Time & date display attributes 0: See table below.

Time & date display attributes 1: See table below.

Special message and alarm display horizontal position: Any integer number from $\bf 0$ to $\bf 23$.

Special message and alarm display vertical position: Any integer number from ${\bf 0}$ to ${\bf 11}$.

Special message and alarm display attributes 0: See table below.

Special message and alarm display attributes 1: See table below.

Attribute 0:-

```
7 6 5 4 3
bit
                  2 1 0
                             Character brightness
                          - black
                  0 0 0
                   0 0 1
                   0
                     1 0
                        1
                   1
                   1 0 1
                   1 1 0
                  1 1 1 - white
                    Blinking section
                0 - no blinking
                1 - blinking
                  Character size
           0
             0
               - Size 1
             1
               - Size 2
           0
               - Size 3
           1
             0
             1 - Size 4
```

Attribute 1:-

```
bit
     7 6 5 4 3 2 1 0
                             Background brightness
                       0
                  0
                     0
                          black
                  0
                     0
                       1
                     1
                    1
                  0
                  1 0 0
                  1 0 1
                  1 1 0
                  1 1 1
                          white
                   Background format
             0 0 - no background
               1 - black overlay
             0
             1 0 - square background
               1 - solid background
             Display On/Off
          0 - Off
          1 - On
```

MESSAGE PARAMETERS

Message file

```
Text Message:
```

Any ASCII character, up to 24 characters.

Print operator PIN number with message :

Yes = 1; No = 0.

PIN PARAMETERS

Pin file

Pin Number:

Any integer number from 100 to 9999.

Operator number:

Any integer number from 1 to 96.

Priority:

Any integer number from 1 to 9999.

Logical macro number:

Any integer number from 1 to 9999.

NIU PORTS PARAMETERS

NIU file

The data line is:-

Port identification number:

Any integer number from 1 to 9999.

Comms parameters:

A number representing the bit pattern as follows;

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 - bit position Word Length -5_bits 0 0 -6 bits 0 1 1 0 -7_bits 1 1 -8_bits Stop bits 0 -1 stop_bit 1 - 2 stop_bits Parity ÓÓ - none 0 1 - odd 1 0 - none 1 1 - even Baud Rate Ó Ò 0 1 0 Ò Ò -56000 0 0 0 0 0 1 1 -38400 -19200 0 Λ Ω 0 1 1 0 0 1 0 0 1 -9600 0 0 0 0 Ω 1 0 -7200 0 0 1 1 0 0 0 -4800 0 1 0 0 0 0 0 0 0 0 0 1 0 -2400 1 1 1 1 0 1 0 -2000 0 0 0 0 0 0 1 -1800 0 0 0 0 0 -1200

MATRIX PARAMETERS

Matrix file

CPU port and Expander port: Floating-point number.