

# **Infineer 6058/6059**

## **Technical Manual**

## Contents

1	Copyright Information .....	4
2	Introduction.....	5
2.1	6058 Features .....	5
2.2	6059 Features .....	5
3	Terminal Power-Up .....	6
4	User Operation .....	7
5	Menu Function Keys.....	8
6	Accessing Menus and Menu Options.....	9
7	OPERATOR MENU.....	10
7.1	PLU MENU ( Price Look Up ).....	10
7.1.1	Paper Size .....	10
7.1.2	Colour.....	11
7.1.3	Duplex.....	12
7.2	DEPOSIT MENU.....	12
7.2.1	Cash Deposit .....	13
7.3	USER INTERFACE MENU .....	13
7.3.1	Currency.....	14
7.3.2	Language .....	15
7.3.3	Display Mode .....	15
7.3.4	Sub Code .....	15
7.3.5	Client Code .....	16
7.3.6	Username.....	16
7.4	OVERRIDE LOGON MENU.....	17
7.4.1	Override Mode .....	17
7.4.2	Override ID.....	17
7.4.3	Override PWD.....	18
8	TECHNICAL MENU .....	19
8.1	Terminal Name.....	19
8.2	COPIER CONTROL.....	19
8.2.1	Hold Time.....	19
8.2.2	Main Relay Delay.....	20

---

8.2.3	Aux Relay Delay .....	21
8.2.4	Aux Relay Off .....	21
8.2.5	Billing Input .....	22
8.2.6	Multipulse Count .....	26
8.2.7	Multipulse Time .....	26
8.2.8	Steering Timeout.....	27
8.2.9	Inactive Timeout.....	27
8.3	TCP/IP MENU .....	28
8.3.1	Host Address .....	28
8.3.2	DHCP Mode .....	29
8.3.3	Terminal Address.....	29
8.3.4	Gateway Address.....	30
8.3.5	Subnet Mask .....	31
8.4	ADMIN LOGON MENU .....	31
8.4.1	Admin ID .....	32
8.4.2	Admin PWD .....	32
9	INITIALISE MENU .....	33
9.1	Initialise .....	33
10	Menu Structures .....	35
10.1	6058 Menu .....	35
10.2	6059 Menu .....	36
11	Connection To Photocopier .....	37
12	Battery .....	39

# 1 Copyright Information

All information contained within this technical manual and accompanying software programs is copyright of Infineer Ltd.

All rights reserved. It is a breach of copyright if this technical manual is copied or reproduced, in whole or part, using any means whatsoever, without the prior written approval of Infineer Ltd.

Infineer Ltd gives no condition or warranty, expressed or implied, about the fitness of this technical manual or accompanying software product. Infineer reserve the right to make changes to this technical manual or the accompanying software product without notice to any person or company.

Infineer Ltd shall not be liable for any indirect, special, consequential or incidental damages resulting from the use of this technical manual or the accompanying software whether caused through Infineer's negligence or otherwise.

Infineer Ltd  
Balloo Avenue  
Bangor  
Northern Ireland  
BT19 7QT

## 2 Introduction

The Infineer 6058 is a copy release terminal designed for connection to any make or model of copier/multi-function device, providing flexibility and control for those organisations wishing to manage, control, monitor or charge-back against copies made. The Infineer 6058 forms an integral part of the Infineer Pcounter Pro range of products.

The Infineer 6059 is a disbursement terminal permitting pages (eg faxes or scans) to be charged against a Pcounter account. The number of pages are entered at the terminal and are charged against a page price in the Pcounter software. All pages are charged at this single price.

This technical manual is intended as an overview of the options and functional menus available to the system administrator and service technicians.

### 2.1 6058 Features

- ❑ Four pricelines, prices can be set using the Administrator Logon.
- ❑ 9 - 35V or 5V billing inputs.
- ❑ QWERTY keypad
- ❑ Accesses Pcounter online accounts
- ❑ 10 BaseT network interface

### 2.2 6059 Features

- ❑ One price line. Setup in the Pcounter software
- ❑ QWERTY keypad
- ❑ Accesses Pcounter online accounts
- ❑ 10 BaseT network interface

### 3 Terminal Power-Up

The Infineer 6058/6059 terminal tests its onboard memory at power-up to detect if this is the first time that the terminal has been powered up or if the memory backup has failed during power off. If either case is true, the terminal settings will be set to the default settings.

If DHCP is enabled and the terminal is attached to a TCP/IP network, it will request its network settings during power-up. If there is no response from a DHCP server, the terminal will issue the request a maximum of two more times. If after the last attempt there is still no response from the DHCP server, the terminal will disable its network connection.

On power-up, after the terminal has successfully connected to the TCP/IP network, it will broadcast a small UDP packet to declare itself to the Pcounter Gateway server. The device will continue to broadcast this packet every few seconds until the Pcounter Gateway server responds. During this time, the device will display the message:

MACHINE IS NOT  
AVAILABLE.

Once the server has responded, the screen will change to the normal standby prompt:

Please Enter  
User ID

If at any point the server fails to respond to the terminal for any reason, the terminal will revert to the MACHINE IS NOT AVAILABLE prompt until communications are resumed.

In the event that the system becomes locked at the MACHINE IS NOT AVAILABLE prompt, press and hold the Action key until the terminal beeps. The terminal will display the PLEASE ENTER USER ID screen from where it is possible to access the menus.




It is not possible for users to log on to the terminal while the network is disconnected

## 4 User Operation

In order to logon the user inputs a Pcounter ID and password via the QWERTY keypad. The terminal verifies the user's logon details and retrieves the account balance and low balance limit from the Pcounter Gateway via a TCP/IP network. On receipt of the account details, the account funds value will be displayed on the screen along with any pre-deducted deposit. The deposit is a security against the account balance dropping below the low balance limit. At this point, the 6058 will enable the copy device and the user can copy as normal. Alternatively, if it is a 6059 terminal the user can input the number of pages being faxed, this will be deducted from the account based on the price line in the Pcounter software.

The user logs out by pressing any key on the terminal keypad. However, they will remain logged on until the Hold Time has expired, as a late copy may be billed during this time. The user may also be automatically logged out of the terminal if the copier has been idle for a predefined time limit.

## 5 Menu Function Keys

Key	Name	Functions
<b>ESC</b>	Escape	Aborts any operation
	Action	Enters the settings displayed into machine
	Scroll	Used to scroll through menu and edit options
	Undo	Cancels last operation.

## 6 Accessing Menus and Menu Options

The menu within the 6058 is split into three sections, Operator, Technical and Initialise. The bottom line of the menus will normally display:

“▲ ▼ Next   ← Action”

The ▲ ▼ keys are used to scroll forwards and backwards through the menu. To view or modify a menu item press the Action key. If the item behind the menu option is a single item, the value or state of the item will appear on the screen. If there is a sub-menu behind a menu option, then the items in the sub-menu may be scrolled and accessed in a similar manner.

Pressing the ▲ ▼ keys will toggle the state of menu items that may be set to On or Off, Enabled or Disabled, Yes or No. All menu items that require a numeric value should be modified using the Qwerty keypad. To exit the main menu or a sub-menu, press the ESC key.

The menu structure differs between the 6058. See section r for a full list of the menu items available in each terminal.

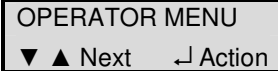
To allow access to the menu functions, an administration account has been added. Entering the administrator username and password will give access to all menus and sub-menus. The default administrator account details are given below:

**Username:**            admin

**Password:**            admin

## 7 OPERATOR MENU

The selections in the menu may be further sub divided into sub-menus of related tasks, any item in the menu in uppercase will have a sub-menu of related tasks.

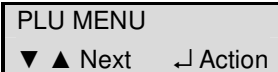


```
OPERATOR MENU
▼ ▲ Next ↵ Action
```

Pressing the Action key will enter the Operator menu. The following sections describe each of the menu items in detail.

### 7.1 PLU MENU ( Price Look Up )

This menu contains all functions relating to the setup of price lines.

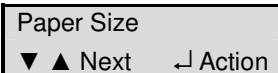


```
PLU MENU
▼ ▲ Next ↵ Action
```

The following sub-menus can then be accessed by pressing the Action key.

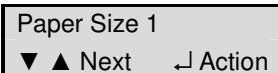
#### 7.1.1 Paper Size

Under this menu option, the paper size for each price line can be setup. The value in paper size will determine the amount to be deducted from the Pcounter account.



```
Paper Size
▼ ▲ Next ↵ Action
```

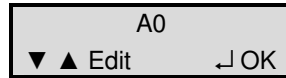
There are four paper sizes, one for each price line and each can be set for any value between A0 and Monarch. Pressing the Action key will display:



```
Paper Size 1
▼ ▲ Next ↵ Action
```

The bottom line of the display shows which keys to press, the Scroll keys change the price line and the Action key allows access to the

indicated price line. Press the Action key and the currently selected price line value will be displayed.

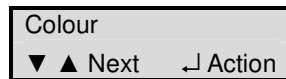


The bottom line indicates the value may be edited using the Scroll keys. Use the Scroll keys to cycle through all possible values. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

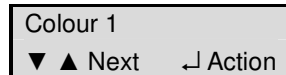
All of the four paper sizes are set in this manner.

### 7.1.2 Colour

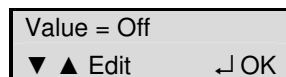
Under this menu option, it is possible to indicate colour copier price lines. The value in paper size and colour options will determine the amount to be deducted from the Pcounter account.



There is a colour setting for each price line and each can be set to indicate colour copies. Pressing the Action key will display:



The bottom line of the display shows which keys to press, the Scroll keys change the price line and the Action key allows access to the indicated price line. Press the Action key and the currently selected price line value will be displayed.

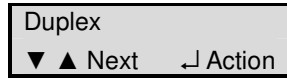


The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to either On or Off. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

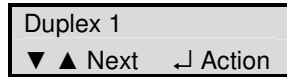
All four price lines are set in this manner.

### 7.1.3 Duplex

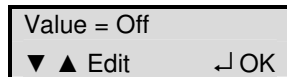
Under this menu option, it is possible to indicate if duplex is enabled for the price lines. The value in paper size, colour and duplex options will determine the amount to be deducted from the Pcounter account.



There is a duplex setting for each price line and each can be set to indicate duplex copies. Pressing the Action key will display:



The bottom line of the display shows which keys to press, the Scroll keys change the price line and the Action key allows access to the indicated price line. Press the Action key and the currently selected price line value will be displayed.



The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to either On or Off. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

All four price lines are set in this manner.

## 7.2 DEPOSIT MENU

This menu contains all functions relating to the setup of deposits. The deposit amount will always be deducted from the Pcounter account and held in the terminal as collateral before copying can begin. This amount will be refunded back to the account under the following strict conditions.

- 1 The user does not run out of funds while copying is in progress. If the funds do run out, the copy price will be deducted from the deposit and any deposit remaining will be refunded to the account.
- 2 The copy price value does not exceed the account funds. If the copy price does exceed the account funds, the account funds will

be exhausted and the difference between the account funds and the copy price value will be deducted from the deposit.

```
DEPOSIT MENU
▼▲ Next  ↵ Action
```

The following sub-menus can then be accessed by pressing the Action key.

### 7.2.1 Cash Deposit

This value will determine the amount of cash deducted from the account as a deposit. Currency symbol and decimal separator used to display these values will be determined using the USER INTERFACE MENU. Currency symbol and decimal separator used in this manual are for illustration purposes only.

```
Cash Deposit
▼▲ Next  ↵ Action
```

The bottom line of the display shows which keys to press; the Action key allows access to the cash deposit. Press the Action key and the deposit value will be displayed.

```
Value = £0.05
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Maximum value = £10.00

Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

## 7.3 USER INTERFACE MENU

This sub-menu contains all functions relating to user settings.

```
USER INTERFACE
▼▲ Next  ↵ Action
```

The following options can then be accessed by pressing the Action key.

### 7.3.1 Currency

This option sets the terminal default currency symbol, separator position and separator symbol for displaying cash amounts.

```

Currency
▼▲ Next  ↵ Action
  
```

Pressing the Action key will display:

```

    £XX.XX
▼▲ Edit  ↵ OK
  
```

The bottom line of the display shows which keys to press. Use the Scroll keys to scroll through the list of currency symbols available. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes before giving the option to set the separator position.

```

    £XX.XX
▼▲ Edit  ↵ OK
  
```

The bottom line of the display shows which keys to press. Use the Scroll keys to scroll through the list of separator positions available. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes before giving the option to set the separator symbol.

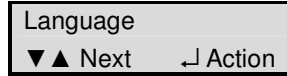
```

    £XX.XX
▼▲ Edit  ↵ OK
  
```

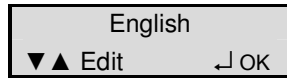
The bottom line of the display shows which keys to press. Use the Scroll keys to scroll through the list of available separator symbols. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 7.3.2 Language

This option sets the terminal default language for displaying prompts.



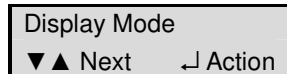
Pressing the Action key will display:



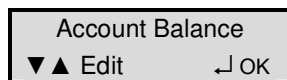
The bottom line of the display shows which keys to press. Using the Scroll keys will toggle through the list of available languages. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.3.3 Display Mode

This option sets the terminal display mode to either the account balance or copies taken. The copies displayed will be the number of copies made by the user that is logged on, not a cumulative total of all copies made.



Pressing the Action key will display:



The bottom line of the display shows which keys to press. Using the Scroll keys will scroll through the list of available display modes, Account Balance or Copies. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.3.4 Sub Code

This menu item will only be displayed if Client Code is set to Optional or Required. Under this menu option, it is possible to enable the use of sub codes at the terminal.

```
Sub Code
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Off
▼▲ Edit  ↵ OK
```

The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to Off, Optional or Required. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.3.5 Client Code

Under this menu option, it is possible to enable the use of client codes at the terminal.

```
Client Code
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Off
▼▲ Edit  ↵ OK
```

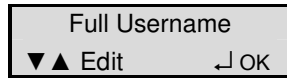
The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to Off, Optional or Required. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.3.6 Username

This option sets the terminal to accept either a full ID or the short ID.

```
Username
▼▲ Next.  ↵ Action
```

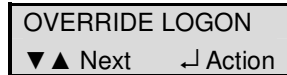
Pressing the Action key will display:



The bottom line of the display shows which keys to press. Using the Scroll keys will toggle through the list of available display modes, Full Username or Short ID. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

## 7.4 OVERRIDE LOGON MENU

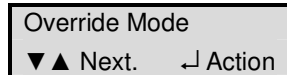
This sub-menu contains all functions relating to the use of the override function. When this option is enabled, the system administrator can setup a default ID and password thus removing the need for users to logon. All copies will be assigned to the default user account.



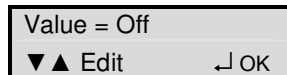
The following options can then be accessed by pressing the Action key.

### 7.4.1 Override Mode

Under this menu option, it is possible to enable the override model.



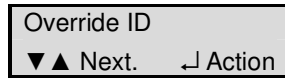
Pressing the Action key will display:



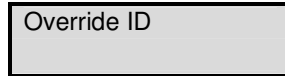
The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to either On or Off. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.4.2 Override ID

This option will only be available when the override mode is on. Under this menu option, it is possible to input the default override ID.



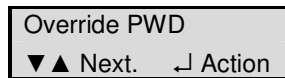
Pressing the Action key will display:



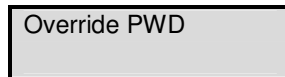
The system administrator inputs a default override ID via the Qwerty keypad. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

### 7.4.3 Override PWD

This option will only be available when the override mode is on. Under this menu option, it is possible to input the default override password.



Pressing the Action key will display:



The system administrator inputs a default override password via the Qwerty keypad. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

## 8 TECHNICAL MENU

The selections in the menu may be further sub divided into sub-menus of related tasks, any item in the menu in uppercase will have a sub-menu of related tasks.

### 8.1 Terminal Name

This menu item allows a name to be assigned to the terminal that will appear on the web interface.

```
Terminal Name
▼▲ Next.  ↵ Action
```

Pressing the Action key will display:

```
Terminal Name
```

The cursor will be flashing at the right of the bottom line. Using the delete key the letters can be deleted. Once all the letters have been deleted, a name can be input via the Qwerty keypad. Once the name has been input pressing the Action key will store the changes and exit.

### 8.2 COPIER CONTROL

This menu contains all functions relating to interfacing the Infineer 6058 to the photocopier.

```
COPIER CONTROL
▼▲ Next.  ↵ Action
```

The following sub-menus can then be accessed by pressing the Action key.

#### 8.2.1 Hold Time

When copying is complete, the terminal may hold the deposit and account for a period of time in seconds before returning the deposit and the account back to the Pcounter Gateway to ensure all copies are

through the copier and are paid for. This option will edit the hold time period.

```
Hold Time
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 5
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 8.2.2 Main Relay Delay

If the account funds become exhausted when the copier billing pulse appears at the start of the copy cycle, there is a chance that the copier may not produce a copy or the copy is marred due to the main relay disabling the copier too soon.

The main relay may be delayed for a period of milliseconds before disabling the copier if the account funds become exhausted when the copier billing pulse appears at the start of the copy cycle.

This option will edit the main relay delay period.

```
Main Relay Delay
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 0
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will

exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 8.2.3 Aux Relay Delay

This option is only available when Aux Relay Off option is set to Funds < Min Cr.

If the account funds fall below minimum funds when the copier billing pulse appears at the start of the copy cycle, there is a chance that the copier may not produce a copy or the copy is marred due to the auxiliary relay disabling the copier too soon.

The auxiliary relay may be delayed for a period in milliseconds before disabling the copier if the account funds fall below minimum funds when the copier billing pulse appears at the start of the copy cycle.

This option will edit the aux relay delay period.

```
Aux Relay Delay
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 0
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 8.2.4 Aux Relay Off

The auxiliary relay may be configured to de-energise from 1 of 3 options.

- 1: When the account funds fall below minimum funds.
- 2: After the hold time when the user requests the account to be closed.
- 3: At the same time as the main relay.

Aux Relay Off
▼▲ Next    ↵ Action

Pressing the Action key will display:

Funds < Min Cr.
▼▲ Edit    ↵ OK

The bottom line of the display shows which keys to press.

Using the Scroll keys will scroll through:

- 1: Funds < Min Cr.
- 2: After Hold Time.
- 3: With Main Relay.

Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit in this sub menu.

## 8.2.5 Billing Input

The terminal may be configured to accept billing pulses from the copier from 1 of 5 modes of operation. The modes of operation are described in the following sections.

### 8.2.5.1 Direct Billing Mode

In this mode, all four price line inputs operate as 4 separate billing inputs.

Price line 1 will deduct price 1 value.

Price line 2 will deduct price 2 value.

Price line 3 will deduct price 3 value.

Price line 4 will deduct price 4 value.

### 8.2.5.2 Pre-select A Billing Mode

In this mode price line 1 will be the “main” billing input which will be required before any value will be deducted from the account. The value deducted will depend on the input states of price line 2 and price line 3

when the “main” billing signal is received. The amount deducted from the account when the “main” billing input is being received is shown in the following table

Price Line 2	Price Line 3	Amount Deduct
NO	NO	Price 1 value
YES	NO	Price 2 value
NO	YES	Price 3 value
YES	YES	Price 4 value

All other combinations are illegal.

This mode is used when the copier can supply a combination of output signals to cater for the above table to indicate the copy to be produced. This mode used along with the Aux Relay, will allow the copier to be disabled in the event of the value on the account becoming less than any of the price line values

**8.2.5.3 Pre-select B Billing Mode**

In this mode price line 1 will be the “main” billing input which will be required before any value will be deducted from the account. The value deducted will depend on the input states of price line 2, price line 3 and price line 4 when the “main” billing signal is received. The amount deducted from the account is shown in the following table.

Price Line 2	Price Line 3	Price Line 4	Amount Deduct
NO	NO	NO	Price 1 value
YES	NO	NO	Price 2 value
NO	YES	NO	Price 3 value
NO	NO	YES	Price 4 value

All other combinations are illegal.

This mode is used when the copier can supply a combination of output signals to cater for the above table to indicate the copy to be produced. This mode used along with the Aux Relay, will allow the copier to be

disabled in the event of the value in the account becoming less than any of the price line values.

#### 8.2.5.4 Multipulse Billing Mode

In this mode, only billing input 1 is used. As soon as a pulse is detected on billing input 1, an interpulse timeout period in milliseconds (determined by the value set in Multipulse Timeout option) starts and a pulse counter is incremented from 0 to 1.

Each time a pulse is detected on this input before the interpulse time has elapsed then the pulse counter is incremented and the interpulse timeout period is restarted.

When the interpulse timeout is allowed to elapse then the number of pulses counted will be compared against the number of pulses set for each price line (set-up in Multipulse Count option) and will determine the value deducted from the account.

Number of pulses	Amount Deducted
< price line 2 pulse count	Price 1 value
>= price line 2 pulse count and < price line 3 pulse count	Price 2 value
>= price line 3 pulse count and < price line 4 pulse count	Price 3 value
>= price line 4 pulse count	Price 4 value

#### 8.2.5.5 Steered Billing Inputs (also called Latched Inputs)

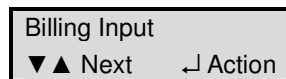
In this mode, Billing Input 1 is used as the 'main billing' input and billing inputs 2, 3 and 4 are used as steering or latching inputs.

The suggested use for this setting would be in the event where a momentary signal is present to indicate the copy size about to be produced prior to a "main" billing signal which will arrive a set period of time later from the copier. The terminal will not deduct any price line value from the account if the 'main billing' signal is not received from the copier within a set period determined by Steering Timeout (in seconds) option. Because of this, the installer should set the steering timeout greater than the time between receiving the steered billing signal and main billing signal from the copier. The table below indicates the value deducted from the account when the main billing signal appears.

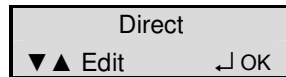
Price Line 2	Price Line 3	Price Line 4	Amount Deduct
NO	NO	NO	Price 1 value
YES	NO	NO	Price 2 value
NO	YES	NO	Price 3 value
NO	NO	YES	Price 4 value

All other combinations are illegal.

The administrator can set the billing mode. Pressing the Action key will display the following.



Pressing the Action key will display:



The bottom line of the display shows which keys to press.

Using the Scroll keys will toggle between:

- 1: Direct.
- 2: Pre-Select A.
- 3: Pre-Select B.
- 4: Multipulse.
- 5: Steered.

Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit in this sub menu.

## 8.2.6 Multipulse Count

This option is only available when the billing mode is set to Multipulse. This option sets the number of pulses to be received from the photocopier that will determine what price line value to deduct from the account.

Price line 1 is not in the option as it is assumed will be less than the smallest number of pulses.

```
Multipulse Count
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Priceline 2
▼▲ Next  ↵ Action
```

The bottom line of the display shows which keys to press, the Scroll keys change the price line and the Action key allows access to edit the indicated price line copier pulses.

Press the Action key and the currently selected price line copier pulses will be displayed.

```
Value = 2
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Price line 3 and 4 are set in the same manner. Press the Escape key at any time to exit this sub menu.

## 8.2.7 Multipulse Time

This option is only available when the billing mode is set to Multipulse. This option sets the interpulse timeout period in milliseconds.

```
Multipulse Time
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 500
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 8.2.8 Steering Timeout

This option is only available when the billing mode is set to Steered. This option sets the steering or latched timeout period in seconds.

```
Steering Timeout
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 8
0 - 9 Edit  ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

### 8.2.9 Inactive Timeout

This option allows the system administrator to set the inactive timeout period in seconds. The inactive timeout is the period that if no activity is detected at the terminal, the terminal will automatically log off the present user.

```
Inactive Timeout
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 60
0 - 9 Edit   ↵ OK
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit. Press the Escape key at any time to exit this sub menu.

## 8.3 TCP/IP MENU

This menu contains all functions relating to TCP/IP setup.

```
TCP/IP MENU
▼▲ Next   ↵ Action
```

The following options can then be accessed by pressing the Action key.

### 8.3.1 Host Address

This option allows the 12-digit host PC address to be edited. The 12-digit host address is split into four sets of three digits. Each set of three digits will be in the range of 000 – 255.

```
Host Address
▼▲ Next   ↵ Action
```

Pressing the Action key will display:

```
123 . 456 . 012. 034
```

The first three digits will be highlighted to indicate editing may be carried out on these three digits.

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace

key will delete the last key value entered. Pressing the Escape key will exit without any changes.

Pressing the Action key will temporarily store the changes and move to the next set of three digits. All four sets of three digits are edited in the same manner

The new settings will not be stored until the last set of three digits is highlighted and the Action key pressed. Press the Escape key at any time to exit this sub menu.

### 8.3.2 DHCP Mode

Under this menu option, it is possible to enable the use of DHCP at the terminal. When DHCP mode is enabled, the terminal will receive its terminal IP address, gateway IP address and subnet mask from the DHCP server.

```
DHCP Mode
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = Off
▼▲ Edit  ↵ OK
```

The bottom line indicates the value may be edited using the Scroll keys. Using the Scroll keys, the value can be set to either On or Off. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

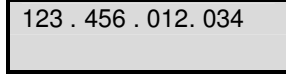
### 8.3.3 Terminal Address

This option is only available when the DHCP Mode is set to Off.

This option allows the 12-digit terminal address to be edited. The 12-digit Terminal address is split into four sets of three digits. Each set of three digits will be in the range of 000 – 255.

```
Terminal Address
▼▲ Next  ↵ Action
```

Pressing the Action key will display:



```
123 . 456 . 012 . 034
```

The first three digits will be highlighted to indicate editing may be carried out on these three digits.

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes.

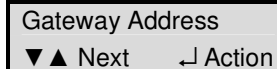
Pressing the Action key will temporarily store the changes and move to the next set of three digits. All four sets of three digits are edited in the same manner

The new settings will not be stored until the last set of three digits is highlighted and the Action key pressed. Press the Escape key at any time to exit this sub menu.

### 8.3.4 Gateway Address

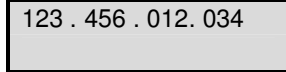
This option is only available when the DHCP Mode is set to Off.

This option allows the 12-digit gateway address to be edited. The 12-digit gateway address is split into four sets of three digits. Each set of three digits can be in the range of 000 – 255.



```
Gateway Address
▼▲ Next    ↵ Action
```

Pressing the Action key will display:



```
123 . 456 . 012 . 034
```

The first three digits will be highlighted to indicate editing may be carried out on these three digits.

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes.

Pressing the Action key will temporarily store the changes and move to the next set of three digits. All four sets of three digits are edited in the same manner

The new settings will not be stored until the last set of three digits is highlighted and the Action key pressed. Press the Escape key at any time to exit this sub menu.

### 8.3.5 Subnet Mask

This option is only available when the DHCP Mode is set to Off.

This option allows the 12-digit subnet mask to be edited. The 12-digit subnet mask is split into four sets of three digits. Each set of three digits can be in the range of 000 – 255.

```
Subnet Mask
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
123 . 456 . 012 . 034
```

The first three digits will be highlighted to indicate editing may be carried out on these three digits.

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys a value can be input. Pressing the backspace key will delete the last key value entered. Pressing the Escape key will exit without any changes.

Pressing the Action key will temporarily store the changes and move to the next set of three digits. All four sets of three digits are edited in the same manner. The new settings will not be stored until the last set of three digits is highlighted and the Action key pressed.

## 8.4 ADMIN LOGON MENU

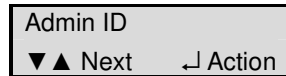
This sub-menu contains all functions relating to the setup of the administrator ID and password. This option allows the system administrator to change the default administrator ID and password.

```
ADMIN LOGON MENU
▼▲ Next  ↵ Action
```

The following options can then be accessed by pressing the Action key.

#### 8.4.1 Admin ID

Under this menu option, it is possible to set the administrator ID for the terminal.



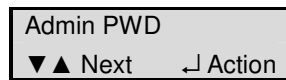
Pressing the Action key will display:



The system administrator inputs a new administrator ID via the Qwerty keypad. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

#### 8.4.2 Admin PWD

Under this menu option, it is possible to set the administrator password for the terminal.



Pressing the Action key will display:



The system administrator inputs a new administrator password via the Qwerty keypad. Pressing the Escape key will exit without any changes. Pressing the Action key will store the changes and exit.

## 9 INITIALISE MENU

The selections in the menu may be further sub divided into sub-menus of related tasks, any item in the menu in uppercase will have a sub-menu of related tasks.

### 9.1 Initialise

This option allows the settings in the terminal to be re-set to the default factory settings.

The following initialise codes are as follows:

7	Re-sets all settings normally set up in the Technical and Operator menus and sub-menus to default factory settings
14	Re-sets transAction FIFO counters back to 0. All historical and current transActions will be retained and may be retrieved using the extrAction function.
21	Re-sets all settings normally set up in the Technical and Operator menus and sub-menus to default factory settings. Resets transAction FIFO counters back to 0. All historical and current transActions will be retained and may be retrieved using the extrAction function.
29	Allows the system administrator to select the model type.
78	Resets transAction FIFO counters back to 0 and deletes all historical and current transActions. No retrieval is possible

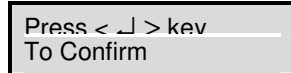
```
Initialise
▼▲ Next  ↵ Action
```

Pressing the Action key will display:

```
Value = 0
0 - 9 Edit  ↵ Action
```

The bottom line indicates the value may be edited using keys 0 to 9. Using the Numeric keys, a value can be entered. Pressing the backspace key will delete the last key value entered.

Pressing the Action key will accept the displayed settings option and display.



Press < Enter > key  
To Confirm

Pressing the Action key will execute the option and return to the main menu.

## 10 Menu Structures

### 10.1 6058 Menu

#### OPERATOR MENU

##### PLU Menu

- Paper Size
- Colour
- Duplex

##### DEPOSIT MENU

- Cash Deposit

##### USER INTERFACE MENU

- Currency
- Language
- Display Mode
- Sub Code
- Client Code
- Username

##### OVERRIDE LOGON MENU

- Override Mode
- Override ID
- Override PWD

#### TECHNICAL MENU

- Terminal Name

##### COPIER CONTROL

- Hold Time
- Main Relay Delay
- Aux Relay Delay
- Aux Relay Off
- Billing Input
- Multipulse Count
- Multipulse Timeout
- Steering Timeout
- Inactive Timeout

##### TCP/IP MENU

- Host Address
- DHCP Mode
- Terminal Address
- Gateway Address
- Subnet Mask

##### ADMINISTRATOR LOGON MENU

- Admin ID
- Admin PWD

#### INITIALISE

- Initialise

## 10.2 6059 Menu

### OPERATOR MENU

#### USER INTERFACE MENU

Display Mode

Sub Code

Client Code

Username

#### OVERRIDE LOGON MENU

Override Mode

Override ID

Override PWD

### TECHNICAL MENU

Terminal Name

#### TCP/IP MENU

Host Address

DHCP Mode

Terminal Address

Gateway Address

Subnet Mask

#### ADMINISTRATOR LOGON MENU

Admin ID

Admin PWD

### INITIALISE

Initialise

## 11 Connection To Photocopier

Interfacing to the photocopier involves connections for enabling and disabling the copier via 2 relays in the nterface circuit referred to as Main Relay and Aux Relay (Aux Relay can be programmed to operate in different modes), and billing pulse feed-back signals to opto-coupled inputs in the interface circuit from the copier to indicate a particular copy has been produced.

Enabling/Disabling the copier and Billing pulse inputs can be configured to adopt to different copier types for global interfacing.

All inputs are factory set for 9 - 35v operation. If low voltage (5v) inputs are required, the follow jumper links should be closed.

### **Price 1 Jumper Link**

P1\_5V                    (default open)

### **Price 2 Jumper Link**

P2\_5V                    (default open)

### **Price 3 Jumper Link**

P3\_5V                    (default open)

### **Price 4 Jumper Link**

P4\_5V                    (default open)

Although all inputs are default to direct inputs i.e. the copier will directly supply an input voltage across the billing input wires to indicate a copy has been taken, the system may be configured to accept passive inputs i.e. the copiers interface circuits will close a set of open loop contacts, perhaps a relay or an opto coupler to indicate a copy has been taken. The following jumper links should be set

		<b>Default</b>	
<b>Price 1 Jumper Link</b>		<b>Direct</b>	<b>Passive</b>
DIR1_PAS1	(3 way)	DIR	PAS1
PAS1	(2 way)	open	closed
<b>Price 2 Jumper Link</b>		<b>Direct</b>	<b>Passive</b>
DIR2_PAS2	(3 way)	DIR	PAS1
PAS2	(2 way)	open	closed
<b>Price 3 Jumper Link</b>		<b>Direct</b>	<b>Passive</b>
DIR3_PAS3	(3 way)	DIR	PAS1
PAS3	(2 way)	open	closed
<b>Price 4 Jumper Link</b>		<b>Direct</b>	<b>Passive</b>
DIR4_PAS4	(3 way)	DIR	PAS1
PAS4	(2 way)	open	closed

Safety measures are also taken to help prevent possible damage to the copier or 6257 in the event of incorrect installation to the copier by unauthorised persons. Current limiting resistors are fitted in series with the common contacts of both copier enabling Relays. These relays are referred to as Main Relay (RL2) and Aux Relay (RL1). Both current limiting resistors may be overridden if required by closing the following jumper links.

#### **Main Relay Jumper Link**

MR (default open)

#### **Aux Relay Jumper Link**

AR(default open)

## 12 Battery

The battery used in the terminal is a Vanadium Pentoxide Lithium rechargeable battery.

### SAFETY PRECAUTIONS

These batteries are very high-energy systems containing highly active materials and as such should be treated with respect. However, the cells are designed with a safety vent that will allow the quiet release of electrolyte under conditions of abuse. To ensure trouble free use of lithium batteries the following safety considerations should be observed.

#### TEMPERATURE

These batteries should not be used a temperature in excess of 70 C and for safety reasons never exposed to temperatures above 100 C.

#### PHYSICAL ABUSE

Do not open, puncture crush, deform or tamper with the cells as this may release the active electrolyte and may expose flammable materials. These cells must not be exposed to excessive heat or naked flames as this will usually cause the cell to vent and under extreme conditions may result in violent venting.

#### ENCLOSURE RESTRICTIONS

Lithium cells must **never** be encapsulated or used in a hermetically sealed enclosure that could inhibit the operation of the integral safety vent in the side of the cell.

#### PROCEDURES FOR DAMAGED CELLS

In the unlikely event of a cell rupturing, being punctured or the safety vent opening for whatever reasons it must be disposed of in a careful manner. Suitable protective clothing should be worn to protect skin and eyes when handling such cells and if the skin has been exposed to the electrolyte, it should be washed thoroughly with water.

#### DISPOSAL

Quantities of up to 5 cells may be disposed of with the normal waste. Large number of cells should be disposed of in a secured landfill, by arrangement with local authority or by an independent contractor. Prior to disposal the cells should have their terminals insulated and be sealed in polythene bags. It is preferable that cells be fully discharged before disposal to below a 2V open circuit voltage.

### **DO NOT DISPOSE OF IN FIRE**