

# command\_line\_interface

*Pamgene Support*

*6/19/2019*

## Introduction

A user requirement for a pamservice tool to be used with

- existing ps12 instruments
- new ps12 instruments

The requirements cover the command line.

## differences with the pamstation types

- new ps12 has one control board less (no wash board)
- new ps12 has an integrated barcode reader
- new ps12 has one dispense needle

## command line

A command line interface to the pamstation12

## stage commands

home x y

load x y

x +20

x -20

home

x home

y home

enable all boards

read xy parameters

home

load

read

aspirate

dispense

frontpanel

incubate

get and set xyparameters

get all xyparameters

## **camera commands**

go read  
get image  
look at image  
change xy position  
flash( set )  
...repeat

## **valves commands**

open all valves  
close all valves  
close valve 1 2 3 4  
read all values  
pump up  
pump down  
pump valve 1 2 3 4 ( all other valves should be closed )  
underpressure ( pump ) -0.2  
overpressure ( pump ) 0.2

## **aspirate commands**

aspirate ( value next to it )  
needle up / down

## **disposable commands**

temp position 1 / 2 / 3  
temp overall  
temp cover 1 2 3  
temp bottom 1 2 3

## **dispense commands**

Dispense 20ul  
default pos 2

## **service tasks (use cases)**

The field engineer performs the following service task

- check valve leaks
- check chip leaks
- check dispensing system
- check aspiration system
- check temperature system

- check optics
- focussing the camera
- replace sensor

check valve leaks

check chip leaks

check dispensing system

check aspiration system

check temperature system

check optics

focussing the camera

replace sensor