### **AMSOsram ICC Software Manual**

**Spikes Casting Dispensing Machine** 

Date: R3, 12Jun2025

### Introduction

The core principle of ICC is to dispense randomly selected units for an initial test, analyse the results, and adjust the dispensing volume for the remaining units to achieve the desired test outcome.

In **Pass 1**, a predefined set of units from the Panel is dispensed with an initial volume. The Panel is then tested, and the ICC Server processes the test data to compute the necessary volume adjustments.

In Pass 2, the remaining units are dispensed using the newly determined volume to optimize the test results.

### **Definitions**

Input File	Input File in xml format to retrieve from <b>Input Folder</b> to obtain initial volume. The file sample as in Appendix.
Output File	Output File in text file format located in <b>Output Folder</b> to retrieve new volume. The file sample as in Appendix.
Lot File	Lot File in text file format located in <b>Lot Folder</b> to retrieve panel in lot information. It contains all the Panel ID of the lot. The file sample as in Appendix.
Input Folder	Configurable Directory. The location to retrieve Input File.
Output Folder	Configurable Directory. The location to retrieve <b>Output File</b> .
Lot Folder	Configurable Directory. The location to retrieve Lot File.
Panel ID	The ID for the Panel, scanned or manual entry by <b>READ_ID</b> command.
Pass 1 Panel ID list	A collection of <b>Panel ID</b> s stored locally that has been dispense as Pass 1.
Pass 2 Panel ID list	A collection of <b>Panel ID</b> s stored locally that has been dispense as Pass 2.

## **Normal Run Condition**

Process/Condition	Description			
Lot Entry.	Select <b>Lot Entry</b> . <i>Refer to Lot Entry</i> .			
	Scan in lot information.			
	Select <b>Start Lot</b> .			
	Recipe name of {11 SERIES} will be automatically loaded.			
If Recipe load fail.	Prompt error "Recipe not found or load fail.".			
	User needs to manually dispose the Panel.			
Load magazine.	Load magazine.			
Start operation.	Select <b>Start</b> .			

### Run Panel

Process/Condition	Description	
Panel loading.	Load Panel to <b>Pro Station</b> .	
	Scan Panel ID.	
	Cross check local Pass 2 Panel ID list. If Panel ID exist,	
Pass 2 Panel ID exists	Prompt error "Panel ID has completed Pass 2".	

	User needs to manually dispose the Panel.
Pass 2 Panel ID do not	Cross check local Pass 1 Panel ID list.
exist.	
Pass 1 Panel ID exists	Goto Run Pass 2.
Pass 1 Panel ID do not	Goto Run Pass 1.
exist.	

### Run Pass 1

Process/Condition	Description	
Input File check.	Check for Input File.	
Input File do not exist.	Prompt error "Input File is not found."	
	User needs to manually dispose the Panel.	
Input File exist.	Retrieve Input File. Decode the initial volume by element	
	InitialDispenserSetting="0.8". Update the volume as Current Dispense Volume.	
Unit selection.	Select PreMap 1.	
	PreMap 1 is the selected Pass 1 units to be dispensed.	
Dispense.	Run dispense.	
Complete.	Unload Panel.	

### Run Pass 2

Process/Condition	Description	
Output File check.	Check for <b>Output File</b> .	
Output File do not	Prompt error "Output File is not found."	
exist.	User needs to manually dispose the Panel.	
Output File exist.	Retrieve <b>Output File</b> . Check for <b>PanelID</b> .	
PanelID do not exist.	Prompt error "PanelID is not found."	
	User needs to manually dispose the Panel.	
PanelID exist.	Decode the new volume of <b>PanelID</b> . Update the new volume as <b>Current Dispense</b>	
Update new volume.	Volume.	
	If multiple similar <b>PanelID</b> exist, the last <b>PanelID</b> of the list will be applied.	
Unit selection.	Select PreMap 2.	
	PreMap 2 is the selected Pass 2 units to be dispensed.	
Dispense.	Run dispense.	
Complete.	Unload Panel.	

## **Run Condition – No Lot Entry**

When a panel is loaded without Lot Entry, it will be processed manually. The following differences apply compared to standard processing:

- 1. The initial volume will be based on the Z\_PATH default Nett Volume setting.
- 2. No Input File or Output File checking or updates of dispense value.

Process	Lot Entry	No Lot
READ_ID	√ (when enabled)	√ (when enabled)
	Panel ID is used for volume	Panel ID is not used.
	feedback.	
OSRAM_ICC	✓	*
	Checking of Input File and	
	Output File.	
DOT_ZPATH	✓	✓
	Volume from Input File and	Default Nett Volume will be
	Output File are updated.	used.

**Execution Comparison** 

## **Lot Entry**

Lot Entry feature needs to be enabled at Options-Process. Select type **OsramICC**.

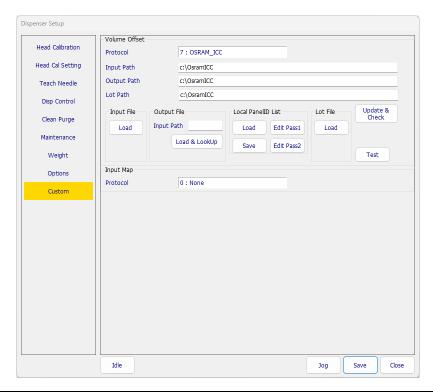


User Interface to enter Lot Data. The first 4 fields, **EMPLOYEE ID**, **LOT NUMBER**, **11 SERIES** and **DA START NUMBER** are compulsory while 4 fields are user definable.



Field	Desription	Usage	
EMPLOYEE ID	Enter Employee ID	Record purposes only.	
LOT NUMBER	Lot Number on traveller	Filename of <b>Output File</b> .	
		Filename of Lot File.	
11 SERIES	11 Series on traveller	Used to Auto Load Device.	
		Part of filename of <b>Input File</b> .	
DA START NUMBER	DA Start Number on traveller	Part of filename of Input File.	
Field5 (optional)	User configurable field.	Record purposes only.	
Field6 (optional)	User configurable field.	Record purposes only.	
Field7 (optional)	User configurable field.	Record purposes only.	
Field8 (optional)	User configurable field.	Record purposes only.	

# **File Logistics**



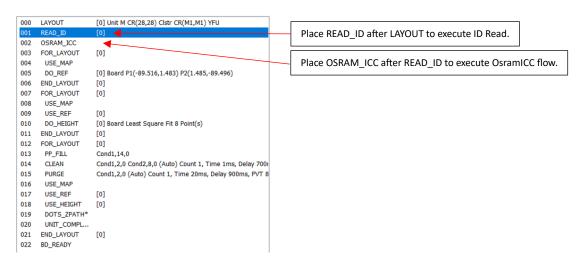
Item	Desription	Usage
Protocol	Select Volume adjustment	Applies Osram ICC volume adjustment.
	Protocol.	
Input Path	Define the Input Path of Input	Location to retrieve the Input Files.
	Files.	
Output Path	Define the Output Path of	Location to retrieve the Output Files.
	Output Files.	
Update & Check	Update and check Input Path	Verify the path validity. Brief colour indicators.
	and Output File.	
Input File – Load	Load the current Input File.	Test load the current input file and display the
		volume information. The Lot Entry must be
		entered prior to the test.
Output File – Load	Load the Panel ID Output file.	Test load the Panel ID Output File to memory.
Output File – Lookup	Lookup the Panel ID volume	Test lookup of the Panel ID and display the volume
	information.	information.
Lot File – Load	Load the lot Panel ID list.	Test loading of the lot file that contains the Panel
		ID list.
Local PanelID -	Load Pass1 and Pass2 local	Test load the local Panel ID list. The list will store
Load	Panel ID list.	up to 100 last processes Panel ID.
Local PanelID -	Save Pass1 and Pass2 local	Test save the local Panel ID list. The list will store
Save	Panel ID list.	up to 100 last processes Panel ID.
Edit Pass1, Edit Pass2	Open the local Pass1 or Pass2	Edit the local Panel ID list.
	text file.	
Test	Test OsramICC function.	Test OSRAM_ICC function for volume settings.

## **DOT\_ZPATH Command**



Item Description **Head No** Select Head Execution 0 - none1: Head 1 only (Single Head) 2: (not support) 3: Head 1 and Head 2. **Model No** Select Model No to applies. Edit Edit Model. Dispense Options to enable Dispense **TL Set/Goto** Set and Goto Top Left corner of the pattern path. **BR Set/Goto** Set and Goto Bottom Right corner of the pattern path. Disp Gap Define the Needle distance from the detect height for dispense. **End Gap** Define the Needle distance from the detect height after dispensing of each dot. Ret Gap Define the Needle distance from the detect height after completing of the unit dispensing. Accel/Decel Define acceleration and deceleration of the path. Speed Define speed 1. Seepd 2 Ratio The ratio of Speed 2 referencing Speed 1. Speed 3 Define speed 3. **Down Wait** Time to wait before path dispensing. **Post Wait** Time to wait after path dispensing. Volume Display and adjust the default **Default Nett** Nett volume. Volume Display and adjust the current **Current Nett** Nett volume.  $Nett\ Volume = Disp\ Volume - Backsuck\ Volume$ Volume Display and adjust the BackSuck **BackSuck** volume. D1-D4 Define the percentage

distribution of each dot.



Sample for Program for ICC

## **Panel List Display**

Panel List on auto window will display the Panel ID of the lot and its status. The status are based on local Pass 1 and Pass 2 files.

## Condition:

- 1. Lot is started and Active.
- 2. OSRAM\_ICC mode is selected.
- The lot file exists and contains correct list of Panel IDs.
   The status are updated according to local Pass 1 and Pass 2 Panel ID list

Run Info	Manual	Мар	Disp Tools	SecsGem	Panel List	
JMU	J00MZU	JM	IU00MYF			
JMU	J00MZS	JM	IU00MZT			
JMU	J00MYE					
JML	J00MYC					
JMU	J00MZY					
JMU	I00MZW					
JMU	J00MZ7					
JMU	J00MYH					

### **Color Status**

None: Panel ID is not processed. Yellow: Panel ID has started Pass 1. Green: Panel ID has started Pass 2.

Panel ID	Pass1	Pass2
JMU00MZU	Yes	Yes
JMU00MZS	Yes	Yes
JMU00MYE	Yes	Yes
JMU00MYC	Yes	No
JMU00MZY	Yes	No
JMU00MZW	Yes	No
JMU00MZ7	No	No
JMU00MYH	No	No
JMU00MYF	No	No
JMU00MZT	No	No

## **Appendix**

### Sample Input File

### Filename: {Input Folder}\{11 SERIES}\_{DA START NUMBER}\_\_xml

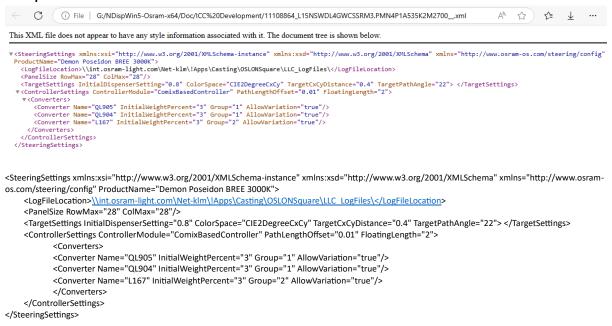
Input folder using Map Drive is accessibility must be provided by local IT security policy. Otherwise use the full Universal Naming Convention(UNC) Path for the network folder name.

#### Note:

- underscore between {11 SERIES} and {DA START NUMBER}
- ends with 2 underscores.

Example: {Input Folder}\11108864\_L15NSWDL4GWCSSRM3.PMN4P1A535K2M2700\_\_.xml

#### **Example content:**



#### Sample Output File

Filename: {Output Folder}\{Lot Number}.txt

#### Example: {Output Folder}\LOTABCD.txt

Input folder using Map Drive is accessibility must be provided by local IT security policy. Otherwise use the full Universal Naming Convention(UNC) Path for the network folder name.

#### Content:

The file contains list of lines of Panel ID, Dispense 1 and Dispense 2 volume semi-colon (;) delimited.

```
Panel;Dispenser1;Dispenser2
{Panel ID 1};{Head 1 Volume 1};{Head 2 Volume 2}
{Panel ID 2};{Head 1 Volume 2};{Head 2 Volume.2}
...
{Panel ID n};{Head 1 Volume n};{Head 2 Volume.n}
```

### **Example content:**

```
Panel;Dispenser1;Dispenser2
JMC1234;1.1112;1.1016
JMC1235;1.1242;1.0735
JMC1236;1.1034;1.1143
```

JMC1237;1.1143;1.1023 JMC1234;1.1200;1.1200

#### Sample Lot File

Filename: {Lot Folder}\{Lot Number}.txt **Example**: {Lot Folder}\KGG4113.txt

Lott folder using Map Drive is accessibility must be provided by local IT security policy. Otherwise use the full Universal Naming Convention(UNC) Path for the network folder name.

#### **Content:**

The file contains list of lines of Panel ID

{Panel ID 1}

{Panel ID 2}

{Panel ID n}

#### **Example content:**

JMU00MZU

JMU00MZS

JMU00MYE

JMU00MYC

JMU00MZY

JMU00MZW

JMU00MZ7 JMU00MYH

JMU00MYF

JMU00MZT

## **Last Known Settings**

Input File Path: \\int.osram-light.com\!Apps\Casting\OSLONSquare\Tools\OslonDC\setting\_DC

Output File Path: \\int.osram-light.com\!Apps\Casting\OSLONSquare\Tools\OslonDC\Dispense\_Wgt

Lot File Path: \\int.osram-light.com\!Apps\Casting\OSLONSquare\Tools\OslonDC\Panel ID

### Revision

Rev	Date	Author	Description
0	20250320	NSW KN	Initial Version
1	20250329	NSW KN	Change PanelID to PanelID
			Added DOT_ZPATH Command, File Logistics
2	20250415	NSW KN	Added Last Known Settings.
3	20250612	NSW KN	Added Lot File support.

End of document.