17.4.3 2D Autoload

17.4.3.1 How to Set the Different Properties

In most cases, it is possible to work with the standard labware integrated in VENUS. A new 2D specific property has just to be set when the given labware does not work with those values.

- 1. Open the labware you want to modify in the labware editor click the labware properties button.
- 2. Add or modify a property with the specific buttons.

Labware Specific Properties						
Property Ir	nitial Value		Modify			
MIStarCarBCOrientation 0 MIStarCarBCReadWidth 1 MIStarCarCountOfBCPos 2 MIStarCarFirstBCPos 2) 40 24 200	=	Add Delete			
MIStarCarlsAutoLoad 1				Property and Value		
MIStarCarlsLoadable 1 MIStarCarlsRecognizable 1						
MIStarCarLabelName S	MP_CAR_24_A00			Property:		
MIStarCarPosAreRecog 1	•	Ŧ		Value:]
OK	Cancel		Help	OK	Cancel Hel	P

3. Press OK twice and save the labware afterwards.

17.4.3.2 Description of Properties and Usage

See the picture at the end of this chapter for a visual help and read the description to find the function of each property.

Properties used on "Load carrier" only.

Range [unit]	Default	Description
+/- value [1/10mm]	0	This property allows a correction of read position for first barcode as defined with property "MIStarCarFirstBCPos".
+/	- value [1/10mm]	- value [1/10mm] 0

Please do not change the value of "MIStarCarFirstBCPos"!

Depending on carrier design, the light of the 2D barcode reader may produce a shadow on the barcode. Use this property to shift the position by a few millimeters.

These properties define where and how a barcode can be read using the 2D barcode reader. All properties can be used for every kind of labware (carrier, rack and container).

Key name	Range [unit]	Default	Description
MIStar2DReaderRoiYC enterOffset	+/- 1000 [1/10mm]	0	Defines the distance from the barcode trigger position to the barcode center
MIStar2DReaderRoiZC enterOffset	02500 [1/10mm]	0	Defines the distance from the bottom of the labware to the barcode center.

Example:

- If this property is used on a plate- or tube carrier, the value defines the distance from the instrument deck to the barcode center.
- If this property is used on a rack or a container, the value defines the distance from the rack / container bottom (lowest point) to the barcode center

The default for this property will be set as half height of container length, if the property "MIStarCarOpenRasterBarcodePositions" is defined.

		•			
MIStar2DReaderRoiY Width	0960 [1/10mm]	0	Width of ROI window.		
If property "MIStarCarOpenrasterBarcodePositions" is defined, the default for this property will be set to the width of labware.					
MIStar2DReaderRoiZH eight	01280 [1/10mm]	0	Height of ROI window.		
If property "MIStarCarOpenrasterBarcodePositions" is defined, the default for this property will be set to height of container length.					
MIStarCarBCOrientatio n	StarCarBCOrientatio 02		Defines the orientation of the applied 1D barcode on a rack respectively on a container.		
This property will be used if a carrier is loaded with irregular barcode read mode "MIStarCarOpenRasterBarcodePositions".					
0 = Vertical, 1 = Horizontal, 2 = Open mode, both directions possible					
If this property is not defined, the following defaults will be used: Rack = 2, Container = 0					
If this property is defined on a carrier, see "MIStarCarBCOrientation"					
MIStar2DReaderIllumin ationSettings	"0;0;0;0;0;0;0"	First 5: 0…2	Defines the 2D barcode reader illumination		
		Sixth: 015	setting. Define 7 values separated by a semicolon. If this		
		Seventh: 50500 [us]	property is not defined, the default will be used		

Key name	Range [unit]	Default	Description
First value:	Reader light upper rear	0	Firmware standard
		1	ON
		2	OFF
Second value:	Reader light lower rear	0	Firmware standard
		1	ON
		2	OFF
Third value:	Reader light upper front	0	Firmware standard
		1	ON
		2	OFF
Fourth value:	Reader light lower front	0	Firmware standard
		1	ON
		2	OFF
Fifth value:	Reader external light	0	Firmware standard
		1	ON
		2	OFF
Sixth value:	Contrast gain	0	Firmware standard
		115	Low… high [image noise!]
Seventh value:	Camera exposure time	0	Firmware standard
		50 500	Exposure time [us]
Firmware standard:		"0;0;0;0;1;0;0"	
Exception on horizontal reading:		"1;1;0;0;1;0;0"	

